

**PHASE II SUBSURFACE INVESTIGATION REPORT
INDUSTRIAL PROPERTY
434 ALLENS AVENUE
PROVIDENCE, RHODE ISLAND**

SUBMITTED TO:

Ms. Caitlin Lozano
Rockland Trust
120 Liberty Street
Brockton, Massachusetts 02301

PREPARED BY:



March 8, 2016
Coneco Project No. 7400.B



ENVIRONMENTAL
ECOLOGICAL
ENERGY
SURVEY
CIVIL

March 8, 2016
Coneco Project No. 7400.B

Ms. Caitlin Lozano
Rockland Trust
120 Liberty Street
Brockton, Massachusetts 02301

RE: Phase II Subsurface Investigation Report
Industrial Property
434 Allens Avenue
Providence, Rhode Island

Dear Ms. Lozano:

Coneco Engineers & Scientists, Incorporated (Coneco) has conducted a Subsurface Investigation at 434 Allens Avenue in Providence, Rhode Island, hereinafter, the "Site." This investigation was intended to obtain qualitative and quantitative data to evaluate the nature and extent of potential oil and/or hazardous materials (OHM) impacted environmental media at the Site. Contamination to environmental media at the Site could represent a liability to the property owner or operator under the applicable state statutes of the Rhode Island Department of Environmental Management's (RIDEM) *Rules and Regulations for the Investigation and Remediation of Hazardous Material Releases* (Remediation Regulations). Environmental Assessment procedures employed in this investigation were consistent with guidelines presented in the RIDEM Remediation Regulations, the Oil Pollution Control (OPC) Regulations, the Rules and Regulations for Groundwater Quality 12-100-006 (GQ Regulations), and the American Society for Testing and Materials (ASTM) *Standard Practice for Environmental Site Assessments: Phase II Environmental Site Assessment Process* (ASTM E 1903-11).

Coneco's investigations and findings are detailed in the attached report. If there are any questions, please contact the undersigned.

Respectfully Submitted,
Coneco Engineers & Scientists, Incorporated

Thomas S. Nieuwenhuis
Environmental Scientist

Marc E. Brochu, P.G., L.S.P
Project Manager

TSN:MEB:jd
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TABLE OF CONTENTS

| | |
|------------------------------------------------------------------------|----|
| 1.0 SITE OVERVIEW | 1 |
| 1.1 Site Parameters | 1 |
| 1.2 Sensitive Receptors..... | 2 |
| 2.0 PREVIOUS WORK | 3 |
| 3.0 SUBSURFACE INVESTIGATION AND MISCELLANEOUS SAMPLING | 4 |
| 3.1 Stockpile Sampling | 4 |
| 3.2 Soil Borings | 5 |
| 3.3 Soil Boring Screening..... | 5 |
| 3.4 Soil Sampling..... | 5 |
| 3.5 Groundwater Monitoring Well Installation | 6 |
| 3.6 Groundwater Gauging and Sampling | 6 |
| 3.7 Sediment Sampling | 7 |
| 4.0 LABORATORY ANALYTICAL RESULTS | 8 |
| 4.1 Stockpile Analytical Results | 8 |
| 4.2 Soil Analytical Results | 9 |
| 4.3 Groundwater Analytical Results..... | 11 |
| 4.4 Sediment Sampling | 13 |
| 4.5 Analytical Data Quality Assurance and Quality Control (QA/QC)..... | 15 |
| 5.0 REPORTING REQUIREMENTS | 15 |
| 6.0 SUMMARY OF FINDINGS | 17 |
| 6.1 Discussion..... | 17 |
| 6.2 Conclusions and Recommendations | 20 |
| 7.0 LIMITATIONS | 22 |

TABLES

| | |
|-------------------------------------------------------------------------------|----|
| Table 1 - Groundwater Field Monitoring Data | 7 |
| Table 2 - Stockpile Analytical Results (Detects Only) | 8 |
| Table 3 - Soil Analytical Results (Detects Only)..... | 10 |
| Table 4 - Groundwater Analytical Results (Detects Only) | 12 |
| Table 5 - Sediment Analytical Results (Detects Only) | 14 |
| Table 6 - Conditions for Exemption of Reportable Concentrations in Soil | 16 |

FIGURES

| | |
|----------|----------------|
| Figure 1 | Site Locus Map |
| Figure 2 | Site Plan |

APPENDICES

- Appendix 1 Site Photographs
- Appendix 2 Standard Operating Procedures
- Appendix 3 Soil Boring and Monitoring Well Logs
- Appendix 4 Groundwater Sampling Field Sheets
- Appendix 5 Laboratory Analytical Documentation

1.0 SITE OVERVIEW

Coneco Engineers & Scientists, Incorporated (Coneco) has prepared a Phase II Subsurface Investigation for the industrial property located at 434 Allens Avenue in Providence, Rhode Island, hereinafter, the “Site.” This investigation was intended to obtain qualitative and quantitative data to evaluate the nature and extent of potential oil and/or hazardous materials (OHM) impacts to environmental media at the Site. Such environmental impacts could represent a liability to the property owner or operator under the applicable state statutes of the Rhode Island Department of Environmental Management’s (RIDEM) *Rules and Regulations for the Investigation and Remediation of Hazardous Material Releases* (Remediation Regulations). Environmental Assessment procedures employed in this investigation were consistent with guidelines presented in the American Society for Testing and Materials (ASTM) *Standard Practice for Environmental Site Investigations: Transaction Screen Process* (ASTM E 1903-11).

The Site consists of one parcel of industrial land located at 434 Allens Avenue within a commercial and industrial portion of Providence, Rhode Island. The Site is currently occupied by Rhode Island Recycled Metals (RIRM), a scrap metal recycling facility. Historically, the Site was occupied by a lumber company, a dry rock facility, a petroleum distribution company, and for metals recovery/recycling operations. Previous Site occupants include Seaboard Construction Company, Wallace and Tucker Lumber Company, Pennsylvania Petroleum Products, Refinement International Corporation, and Boliden-Metech, Incorporated. A large industrial structure was constructed in the central portion of the Site prior to 1921 and was removed from the Site between 1970 and 1981. Smaller outbuildings including storage sheds and office buildings were also historically present at the Site. A pier and marine railway associated with dry dock operations were historically present on the eastern portion of the Site. A former railroad spur is present in the western portion of the Site. The Site is currently occupied by five structures, including a scale house, a garage, a job trailer, and two canopied storage areas. A Site Locus Map and Site Plan are provided for reference as Figure 1 and Figure 2, respectively. Site Photographs are included in Appendix 1.

1.1 Site Parameters

Assessor’s

Designation: Information obtained from the City of Providence Assessor’s Office indicates that the Site is comprised of one parcel of land identified as Lot 601 on the City of Providence Assessor’s Map 47.

Zoning: According to the City of Providence Assessor’s Office, Site is zoned for industrial use.

Acreage: According to the City of Providence Assessor’s Field Cards, the Site comprises approximately 12.95 acres of industrial land.

Coordinates: Latitude 41.80234° Longitude -71.39976°
UTM 4,630,615 meters N UTM 300,636 meters E (Zone 19)

- Ownership:** According to the property deed and Assessor's Field Cards, AARE, LLC has owned the Site since April 17, 2014.
- Structures:** The Site is currently occupied by five structures, including a scale house, a garage, a job trailer, and two canopied storage areas. Historically, the Site was occupied by a large industrial structure associated with a lumber yard, dry dock facility, and a petroleum products distributor. Smaller outbuildings including storage sheds and office buildings, a pier, and a marine railroad were also present at the Site. Concrete pads are also present on the northwestern and northeastern portions of the Site and a former railroad spur is located in the western portion of the Site.
- Occupancy & Use:** The Site is currently occupied by RIRM. Historically, the Site was used by a lumber company, a dry rock facility, a petroleum distribution company, and for metal recovery/recycling operations. Previous Site occupants include Seaboard Construction Company, Wallace and Tucker Lumber Company, Pennsylvania Petroleum Products, Refinement International Corporation, and Boliden-Metech, Incorporated.
- Utilities:** The Site is reportedly serviced by the City of Providence municipal water and sewer systems and overhead electrical and telecommunication lines. The scale house building is reportedly heated by electric heat. A natural gas main is located along Allens Avenue to the west of the Site.
- Site Access/Barriers:** The Site can be accessed from the west via a curb cut along Allens Avenue. A chain-link fence limits Site access from the north and south, and the Providence River limits Site access from the east. No additional Site access points or barriers were noted.
- Surface Water:** The Providence River is located on the eastern portion of the Site. A tidal inlet to the Providence River is located along the southern Site boundary.

1.2 Sensitive Receptors

The RIDEM Environmental Resource Map (<http://www.dem.ri.gov/maps/index.htm>), was reviewed online for the Site and surrounding area on March 2, 2016. The Providence River abuts the Site to the east. No additional environmentally sensitive areas, as defined in Section 3.21 of the RIDEM Remediation Regulations, were noted within a 500-foot radius of the Site.

According to the RIDEM Groundwater Classification Overlay Map, the groundwater underlying the Site has been designated as Category GB. Areas classified as GB are those groundwater resources designated by the Director which may not be suitable for public or private drinking water use without treatment due to known or presumed degradation.

2.0 PREVIOUS WORK

Phase I Environmental Site Assessment; Coneco, October 23, 2015:

On October 23, 2015, a Phase I Environmental Site Assessment (ESA) was completed by Coneco for the Site. Based on the findings of the October 2015 ESA, Coneco identified one (1) Recognized Environmental Condition (REC), four (4) historical RECs (HRECs), and one (1) controlled REC (CREC) at the Site for which further action and/or evaluation was recommended. These RECs are listed as follows:

REC

- Two stockpiles of dredged material are located in the eastern portion of the Site. The stockpiles are partially covered by deteriorated tarps and do not appear to be staged in an environmentally secure manner.

HRECs

- RIRM previously accepted motor vehicles, nonferrous metals (aluminum, copper, etc.), and heavy steel in the form of scrapped vessels for salvaging and recycling. The primary source of contaminants associated with the metal salvage operations was the processing of automobiles and the resulting handling of waste automotive fluids such as waste motor oil, gasoline, diesel, hydraulic oil, and antifreeze. Automotive fluids were reportedly collected, managed, and shipped off-Site on a weekly basis.
- On October 16, 2010, a release of an unknown volume of unidentified oil was reported from a vessel docked at the Site. The United States Coast Guard (USCG) was notified of the release. A boom was deployed around the vessel.
- On November 26, 2010, a fire was reported at the Site that resulted from the release of oil from a vessel at the Site.
- As part of a consent decree entered into which the United States Environmental Protection Agency (EPA), Boliden-Metech conducted remediation at the Site in 1998 which involved excavation and disposal of soil “hot spots” exhibiting elevated polychlorinated biphenyls (PCB) concentrations and capping the entire Site with a RIDEM-approved engineered barrier. The portions of the Site that were excavated ranged from one foot to four feet in depth. Approximately 8,000 cubic yards of clean fill was imported for use as backfill on-Site to replace the excavated PCB-impacted soil and to provide a one-foot thick surficial cap on unpaved portions of the Site. Vegetative cover was established to prevent erosion of the clean cover soil. The EPA Issued a Certificate of Completion on August 2, 1999 indicating that the obligations under the consent decree had been satisfied.

CREC

- Following the removal of PCB-contaminated soil at the Site, the Site was capped with a RIDEM-approved engineered barrier. In order to prevent future disturbance of the engineered barrier at the Site, an Environmental Land Use Restriction (ELUR) was recorded on the deed for the Site and an attached Soil Management Plan (SMP) established procedures should disturbance of the cap at the Site be necessary. The Site restrictions listed in the ELUR include no residential use of the Site, no potable use of groundwater at the Site, and no disturbance of soils at the Site except as permitted under the provisions of a Site-specific Soil Management Plan (SMP). Coneco personnel observed several notable areas of disturbed soil and staining atop soil at the Site associated with scrap metal recycling operations. Disturbed surficial soil at the Site may represent a current REC in relation to potential violations or deficiencies associated with maintenance of the engineered barrier in accordance with RIDEM's requirements.

On May 7, 2012, RIDEM issued a Notice of Violation (NOV) related to multiple violations of RIDEM's Water Pollution Act, Water Quality Regulations, and the RIPDES Program and Oil Pollution Control Regulations. RIDEM's NOV listed 20 separate alleged violations and an order to cease certain activities and provide corrective actions for others. A Consent Agreement between RIRM and RIDEM was executed on July 29, 2013 and outlines the interim and long term goals associated with RIRM's storm water discharges.

A summary of additional previous works conducted for the Site is included in the October 23, 2015 Phase I ESA prepared by Coneco.

3.0 SUBSURFACE INVESTIGATION AND MISCELLANEOUS SAMPLING

3.1 Stockpile Sampling

On February 5, 2016, Coneco personnel collected discrete soil samples from two (2) soil stockpiles, designated SP-01 and SP-02, located on the eastern portion of the Site to pre-characterize this material for disposal purposes. The locations of the stockpiles, with estimated volumes ranging from 500 to 800 cubic yards each, are depicted on Figure 2. Both stockpiles were observed to contain anthropogenic debris including brick, metal and wood fragments. The discrete soil samples collected from each soil stockpile were composited into two (2) respective multi-point composite samples, designated SP-01 and SP-02. The composite soil samples were submitted to Con-Test Analytical, Incorporated (Con-Test) an independent, Rhode Island and National Environmental Laboratory Accreditation Program (NELAP)-certified analytical laboratory located in East Longmeadow, Massachusetts for analysis of total petroleum hydrocarbons (TPH) by EPA Method 8100M, semi-volatile organic compounds (SVOCs) by EPA Method 8270, Resource Conservation and Recovery Act (RCRA) 8 Metals by EPA 6000/7000 Series Method, PCBs by EPA Method 8082, pH, flashpoint, and reactive cyanide and reactive sulfide. A representative discrete grab sample from each stockpile was also submitted for laboratory analysis of volatile organic compounds (VOCs) by EPA Method 8260. RCRA 8 Metals analytes that exceeded potential total metal

leachability thresholds were analyzed for toxicity characteristic leaching procedure (TCLP) metals. Laboratory analytical results for soil are discussed in Section 4.1.

3.2 Soil Borings

On February 9, 2016, Coneco provided oversight for the advancement of eleven (11) Geoprobe™ soil borings, designated SB-01 through SB-11, at the Site. The soil borings were advanced by personnel of New England Geotech (NEG) of Jamestown, Rhode Island. Soil boring locations were selected in order to collect data to evaluate potential areas of concern based on historical Site use and OHM storage and release history. Soil borings were advanced to depths of approximately 10 to 15 feet below surface grade using a Geoprobe™ 6600DT truck-mounted drill rig and a Geoprobe™ 7822 DT track-mounted drill rig. Soil samples were collected continuously from surface grade to the maximum depth of each boring utilizing a 5-foot long, 2-inch inner diameter MacroCore™ sampler. Bedrock was not encountered during the advancement of the soil borings. The presence of groundwater was apparent in all borings between approximately 6 to 8 feet below grade. Coneco's standard operating procedures for Geoprobe™ soil borings are provided in Appendix 2. The soil boring locations can be referenced on Figure 2.

Observations made during the performance of soil boring advancement indicated the presence of overburden stratigraphy comprised of fine to coarse grained sand with sub-angular gravel, underlain by varying layers of clay, silty clay, and/or fine grained sand and silty sand with gravel.

3.3 Soil Boring Screening

Representative soil samples collected from the Geoprobe™ soil borings were placed in clean, tightly sealed glass jars topped with aluminum foil cover liners for in-field headspace screening using a RAE Systems MiniRAE 3000 photoionization detector (PID) with a 10.6 eV lamp, calibrated to an isobutylene standard. PID screening results indicated headspace concentrations for soil samples collected at the Site ranging from below the instrument quantification limit of 0.2 parts per million (ppm) to 216 ppm. Headspace concentrations are displayed on the soil boring logs included in Appendix 3.

3.4 Soil Sampling

Following PID screening, select soil samples collected on February 9, 2016 were submitted to Con-Test for laboratory analysis of TPH by EPA Method 8100M, VOCs by EPA Method 8260, PCBs by EPA Method 8082, and RCRA 8 Metals by EPA 6000/7000 series methods. Laboratory analytical results for soil are discussed in Section 4.2. Confirmatory soil samples were selected for analysis based on PID headspace screening data, or in the absence of elevated PID results, based on depth relative to the groundwater table or other depth intervals of interest based on observed soil conditions. Soil samples were labeled based on the soil boring identification and depth [e.g. SB-01, SS-05 (8'-10')].

Soil samples were preserved as follows: TPH, PCBs, and RCRA 8 Metals in 8-ounce amber glass jars; and VOCs in 40-mil VOA vials preserved with 15-mL CH₃OH and 5-mL de-ionized water with a 1:1 ratio of sample to preservative according to the standard field

collection and preservation techniques. Soil samples were either kept on ice in a cooler or in a refrigerator cooled to 4 degrees Celsius during transport.

3.5 Groundwater Monitoring Well Installation

As part of the subsurface investigation activities conducted at the Site on February 9, 2016, seven (7) groundwater monitoring wells, identified as CMW-01 through CMW-07, were installed within soil borings SB-01, SB-02, SB-03, SB-05, SB-06, SB-07, and SB-08, respectively. Monitoring wells CMW-01 through CMW-07 were each constructed with a 5 to 10 foot section of 2-inch ID, schedule 40, slotted PVC well screen from the base of the well to at least one foot above the observed groundwater table with solid PVC riser pipe from the top of the slotted screen to grade. Following monitoring well installation, No. 2 sand was placed in the annulus surrounding the screened portion of each well. A layer of bentonite was then placed atop the No. 2 sand, and native materials were installed from above the bentonite to just below surface grade. Protective steel stand pipes were installed around each monitoring well, with the well caps set at approximately three feet above surface grade. Groundwater monitoring well construction information can be referenced in Appendix 3. Coneco's standard operating procedures for the installation of monitoring wells are included in Appendix 2. Monitoring well locations can be referenced in Figure 2.

3.6 Groundwater Gauging and Sampling

Prior to the collection of groundwater samples on February 12, 2016, Coneco personnel gauged the newly installed monitoring wells, designated CMW-01 through CMW-07, for depth to groundwater and total well depth. Depth to groundwater measurements were made at each groundwater monitoring well to the nearest 0.01-foot using a Solinst Oil-Water Interface probe from the reference point located at the top of the PVC well casing. Groundwater was encountered in monitoring wells CMW-01 through CMW-07 at depths ranging from 8.65 to 11.25 feet below the top of the monitoring well casing (or approximately 5.5 to 8 feet below surface grade). No measurable non-aqueous phase liquid (NAPL) was detected during groundwater gauging activities in any of the monitoring wells at the Site on February 12, 2016.

On February 12, 2016, Coneco personnel collected groundwater samples from monitoring wells CMW-01 through CMW-07. Prior to sampling, monitoring wells were developed and a minimum of three well volumes of groundwater were removed from each well. The standard operating procedure for the sampling of monitoring wells is included in Appendix 2. Coneco observed a sheen on the groundwater from monitoring wells CMW-02 and CMW-03. No additional evidence of OHM impact was noted during monitoring well development. Coneco measured the temperature, specific conductivity, and pH of groundwater in each well using an Oakton model 10 temperature, pH, and conductivity meter. A summary of the groundwater screening results and gauging data is included in Table 1. Groundwater sampling field sheets are included in Appendix 4.

| Table 1 - Groundwater Field Monitoring Data | | | | | | |
|----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|---------------------------------------|-----------|----------------------------------|--------------------------------------------|
| Monitoring Well | Date | Depth to Water⁽¹⁾ | Total Well Depth⁽¹⁾ | pH | Temperature⁽²⁾ | Specific Conductivity⁽³⁾ |
| CMW-01 | 2/12/2016 | 11.05 | 14.66 | 7.18 | 10.1 | 690 |
| CMW-02 | 2/12/2016 | 10.89 | 17.28 | 7.30 | 11.5 | 1,103 |
| CMW-03 | 2/12/2016 | 9.41 | 16.86 | 7.33 | 10.5 | 1,200 |
| CMW-04 | 2/12/2016 | 8.65 | 16.73 | 7.46 | 9.7 | 1,606 |
| CMW-05 | 2/12/2016 | 8.69 | 16.71 | 6.94 | 8.1 | 2,310 |
| CMW-06 | 2/12/2016 | 11.17 | 16.89 | 6.90 | 10.1 | 1,168 |
| CMW-07 | 2/12/2016 | 11.25 | 16.81 | 6.85 | 10.1 | 2,160 |
| Notes: | 1) Gauging data presented in feet from the top of the PVC well casing 2) Temperature presented in degrees Celsius 3) Specific Conductivity presented in microseimens | | | | | |

The groundwater samples were submitted to Con-Test for laboratory analysis of TPH by the EPA Method 8100, VOCs by EPA Method 8260, and dissolved RCRA 8 Metals by EPA 6000/7000 series methods. The groundwater samples were preserved as follows: TPH samples in 1-liter amber glass jars preserved with hydrochloric acid (HCL); VOC samples in 40-mL VOA vials preserved with HCl; and dissolved RCRA 8 Metals in 250 mL plastic jars preserved with nitric acid (HNO₃) according to the standard field collection and preservation techniques. All samples were either kept on ice in a cooler or in a refrigerator cooled to 4 degrees Celsius during transport from the field to the laboratory. Groundwater analytical results are presented in Section 4.3.

3.7 Sediment Sampling

On February 12, 2016, Coneco personnel collected sediment samples from the river bottom of the Providence River, along the eastern shoreline of the Site. As depicted on Figure 2, sediment samples were collected in pairs (SD-01 / SD-05, SD-02 / SD-06, SD-03 / SD-07, and SD-04 / SD-08) at four locations from north to south along the shoreline. Sediment samples SD-01 through SD-04 were collected from the river bottom beneath the water surface beyond the low tide water level, approximately 15 to 20 feet from the shoreline bank. Sediment samples SD-05 through SD-08 were collected from the intertidal zone approximately 5 to 10 feet off of the shoreline bank. Samples were collected from approximately 0 to 1 foot below grade using hand tools, and submitted to Con-Test for laboratory analysis of TPH by EPA Method 8100M, VOCs by EPA Method 8260, PCBs by EPA Method 8082, and RCRA 8 Metals by EPA 6000/7000 series methods. The sediment sample locations can be referenced on Figure 2. Sediment analytical results are presented in Section 4.4.

4.0 LABORATORY ANALYTICAL RESULTS

4.1 Stockpile Analytical Results

A summary of the analytical data for the soil samples collected from soil stockpiles SP-01 and SP-02 on February 5, 2016 is presented in Table 2. The data are compared to the RIDEM Industrial/Commercial Direct Exposure Criteria (I/C DEC), and the GB Leachability Criteria (GBLC) soil objectives. Original laboratory data, laboratory quality assurance/quality control (QA/QC), methods, narrative, and the chain of custody form are included in Appendix 5.

| Table 2 - Soil Stockpile Analytical Results (Detects Only) | | | | |
|-------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|---------------------------------|------------------------------|
| Analyte | SP-01 | SP-02 | RIDEM I/C DEC ⁽¹⁾ | RIDEM GBLC ⁽¹⁾ |
| <i>Location</i> | North Stockpile | South Stockpile | | |
| VOCs by EPA Method 8260 | | | | |
| Total VOCs | ND ⁽²⁾ | ND | -- | -- |
| SVOCs by EPA Method 8270 | | | | |
| Acenaphthene | 0.25 ⁽³⁾ | 0.91 | 10,000 | NS ⁽⁴⁾ |
| Acenaphthylene | 0.27 | 0.22 | 10,000 | NS |
| Anthracene | 0.91 | 2.2 | 10,000 | NS |
| Benzo(a)anthracene | 2.2 | 4.5 | 7.8 | NS |
| Benzo(a)pyrene | 2.1⁽⁵⁾ | 4.2 | 0.8 | NS |
| Benzo(g,h,i)perylene | 1.4 | 2.5 | 10,000 | NS |
| Benzo(b)fluoranthene | 2.3 | 4.4 | 7.8 | NS |
| Benzo(k)fluoranthene | 0.88 | 1.8 | 78 | NS |
| Bis(2-Ethyhexyl)phthalate | 0.48 | 2.5 | 410 | NS |
| Butylbenzylphthalate | <0.40 ⁽⁶⁾ | 0.85 | NS | NS |
| Carbazole | 0.38 | 1.0 | NS | NS |
| Chrysene | 2.1 | 4.5 | 780 | NS |
| Dibenz(a,h)anthracene | 0.32 | 0.68 | 0.8 | NS |
| Dibenzofuran | <0.40 | 0.66 | NS | NS |
| Fluoranthene | 4.8 | 9.7 | 10,000 | NS |
| Fluorene | 0.42 | 1.1 | 10,000 | NS |
| Indo(1,2,3-cd)pyrene | 1.4 | 2.7 | 7.8 | NS |
| 1-Methylnaphthalene | <0.20 | 0.26 | NS | NS |
| 2-Methylnaphthalene | 0.23 | 0.42 | 10,000 | NS |
| Naphthalene | 0.34 | 0.77 | 10,000 | NS |
| Phenanthrene | 4.3 | 7.6 | 10,000 | NS |
| Pyrene | 4.5 | 8.9 | 10,000 | NS |
| TPH by Method 8100M | | | | |
| TPH (C9-C36) | 540 | 1,900 | 2,500 | 2,500 |
| Notes: | 1) The I/C DEC and GBLC risk based standards are promulgated in DEM-DSR-01-93 (as amended) 2) ND denotes Not Detected 3) All concentrations and risk-based standards presented in milligrams per kilogram (mg/kg) except as noted 4) NS denotes No Standard promulgated 5) Bold indicates and exceedance of the applicable Method 1 soil objectives. 6) < denotes concentration not detected above laboratory reporting limit | | | |

| Table 2 - Soil Stockpile Analytical Results (Detects Only)(continued) | | | | |
|------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|------------------------------------|---------------------------------|
| Analyte | SP-01 | SP-02 | RIDEM I/C DEC⁽¹⁾ | RIDEM GBLC⁽¹⁾ |
| <i>Location</i> | North Stockpile | South Stockpile | | |
| PCBs by EPA Method 8082 | | | | |
| PCBs (Total Aroclors) | 1.15 | 1.35 | 10 | 10 |
| RCRA 8 Metals by EPA 6000/7000 Series | | | | |
| Arsenic | <2.9 | 6.4 | 7.0 | NS |
| Barium | 57 | 110 | 10,000 | NS |
| Cadmium | 1.2 | 1.3 | 1,000 | NS |
| Chromium | 25 | 100 | 10,000 | NS |
| Lead | 180 | 730 | 500 | NS |
| Mercury | 0.83 | 0.73 | 610 | NS |
| TCLP Metals (mg/L) | | | | |
| TCLP Lead | 0.26 | 0.92 | NS | NS |
| TCLP Chromium | NA ⁽⁷⁾ | <0.01 | NS | NS |
| Other Disposal Parameters | | | | |
| Flashpoint(°F) | >212 | >212 | NS | NS |
| pH | 7.5 | 7.6 | NS | NS |
| Reactive Cyanide (mg/Kg) | <3.9 | <3.9 | NS | NS |
| Reactive Sulfide (mg/Kg) | <20 | <20 | NS | NS |
| Notes: | 1) The I/C DEC and GBLC risk based standards are promulgated in DEM-DSR-01-93 (as amended) 2) ND denotes Not Detected 3) All concentrations and risk-based standards presented in mg/kg except as noted 4) NS denotes No Standard promulgated 5) Bold indicates and exceedance of the applicable Method 1 soil objectives. 6) < denotes concentration not detected above laboratory reporting limit 7) NA denotes analysis not performed | | | |

4.2 Soil Analytical Results

Select soil samples collected from soil borings SB-01 through SB-11 on February 9, 2016 were submitted to Con-Test, for the following analyses: TPH by the EPA Method 8100M, VOCs by EPA Method 8260, PCBs by EPA Method 8082, and RCRA 8 Metals by EPA 6000/7000 series methods. Soil samples were designated according to soil boring identification, and depth collected. Laboratory analytical results for detected analytes are included in Table 3. The data are compared to the RIDEM I/C DEC, and the GBLC in the following table. Laboratory data, methods, narratives, laboratory QA/QC, and the chain of custody form are included in Appendix 5.

Table 3 - Soil Analytical Results (Detects Only)

| Analyte | SB-01, SS-05 (8-10) ⁽¹⁾ | SB-02, SS-01 (0-2) | SB-02, SS-03 (4-6) | SB-03, SS-07 (12-14) | SB-04, SS-04 (6-8) | SB-05, SS-04 (6-8) | SB-06, SS-05 (8-10) | SB-07, SS-02 (2-4) | SB-08, SS-05 (8-10) | SB-09, SS-01 (0-2) | SB-09, SS-03 (4-6) | SB-10, SS-05 (8-10) | SB-11, SS-03 (4-6) | I/C DEC ⁽²⁾ | GBLC ⁽²⁾ |
|----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|--------------------------|----------------------------|--------------------------|--------------------------|---------------------------|--------------------------|---------------------------|--------------------------|--------------------------|---------------------------|--------------------------|------------------------|---------------------|
| VOCs by EPA Method 8260 | | | | | | | | | | | | | | | |
| Acetone | 0.23 ⁽³⁾ | <3.1 ⁽⁴⁾ | 0.16 | <4.9 | <0.098 | <0.11 | <0.12 | <25 | <0.13 | <0.088 | <0.12 | 0.23 | 0.11 | 10,000 | NS ⁽⁵⁾ |
| Tert-Amyl Methyl Ether | <0.0014 | <0.031 | <0.0011 | <0.049 | <0.00098 | <0.0011 | <0.012 | <0.25 | <0.0013 | <0.00088 | 0.0033 | <0.0013 | <0.00096 | NS | NS |
| Benzene | <0.0027 | 0.080 | <0.0022 | <0.097 | <0.0020 | <0.0022 | <0.0024 | 3.8 | <0.0027 | <0.0018 | 0.0048 | <0.0026 | <0.0019 | 200 | 4.3 |
| n-Butylbenzene | <0.0027 | 0.063 | <0.0022 | 0.82 | <0.0020 | <0.0022 | <0.0024 | 2.4 | <0.0027 | <0.0018 | <0.0023 | <0.0026 | <0.0019 | NS | NS |
| sec-Butylbenzene | <0.0027 | <0.062 | <0.0022 | 0.79 | <0.0020 | <0.0022 | <0.0024 | 0.85 | <0.0027 | <0.0018 | <0.0023 | <0.0026 | <0.0019 | NS | NS |
| tert-Butylbenzene | <0.0027 | <0.062 | <0.0022 | 0.099 | <0.0020 | <0.0022 | <0.0024 | <0.50 | <0.0027 | <0.0018 | <0.0023 | <0.0026 | <0.0019 | NS | NS |
| Ethylbenzene | <0.0027 | 0.40 | <0.0022 | 0.27 | <0.0020 | <0.0022 | <0.0024 | 24 | <0.0027 | <0.0018 | 0.0034 | <0.0026 | <0.0019 | 10,000 | 62 |
| Isopropylbenzene | <0.0027 | 0.11 | <0.0022 | 1.3 | <0.0020 | <0.0022 | <0.0024 | 2.6 | <0.0027 | <0.0018 | <0.0023 | <0.0026 | <0.0019 | 10,000 | NS |
| p-Isopropyltoluene | <0.0027 | <0.062 | <0.0022 | <0.097 | <0.0020 | <0.0022 | <0.0024 | 0.60 | <0.0027 | <0.0018 | <0.0023 | <0.0026 | <0.0019 | NS | NS |
| Methyl Cyclohexane | NA ⁽⁶⁾ | 0.38 | NA | 0.19 | NA | NA | NA | 13 | NA | NA | NA | NA | NA | NS | NS |
| Methyl tert-Butyl Ether | <0.0054 | <0.062 | 0.0047 | <0.097 | <0.0039 | <0.0044 | <0.0047 | <0.50 | <0.0053 | <0.0035 | 0.021 | <0.0051 | <0.0038 | 10,000 | 100 |
| Naphthalene | <0.0054 | 0.15 | <0.0044 | <0.19 | <0.0039 | <0.0044 | <0.0047 | 6.3 | <0.0053 | <0.0035 | 0.0087 | <0.0051 | <0.0038 | 10,000 | NS |
| n-Propylbenzene | <0.0027 | 0.42 | <0.0022 | 7.6 | <0.0020 | <0.0022 | <0.0024 | 9.8 | <0.0027 | <0.0018 | <0.0023 | <0.0026 | <0.0019 | NS | NS |
| Styrene | <0.0027 | 0.11 | <0.0022 | <0.097 | <0.0020 | <0.0022 | <0.0024 | 2.2 | <0.0027 | <0.0018 | <0.0023 | <0.0026 | <0.0019 | 190 | 64 |
| Toluene | <0.0027 | 0.73 | <0.0022 | 7.6 | <0.0020 | <0.0022 | <0.0024 | 77⁽⁷⁾ | <0.0027 | <0.0018 | <0.0023 | <0.0026 | <0.0019 | 10,000 | 54 |
| Trichlorofluoromethane (Freon 11) | <0.014 | 0.65 | <0.011 | <0.19 | <0.0098 | <0.011 | <0.012 | <1.0 | <0.013 | <0.0088 | <0.012 | <0.013 | <0.0096 | NS | NS |
| 1,2,4-Trimethylbenzene | <0.0027 | 1.5 | <0.0022 | 4.2 | <0.0020 | <0.0022 | <0.0024 | 50 | <0.0027 | <0.0018 | 0.028 | <0.0026 | <0.0019 | NS | NS |
| 1,3,5-Trimethylbenzene | <0.0027 | 1.3 | <0.0022 | 0.16 | <0.0020 | <0.0022 | <0.0024 | 16 | <0.0027 | <0.0018 | 0.012 | <0.0026 | <0.0019 | NS | NS |
| Total Xylenes | <0.0071 | 3.0 | <0.0066 | 0.84 | <0.0059 | 0.0066 | 0.0071 | 116 | <0.008 | <0.0053 | 0.0058 | <0.0077 | <0.0057 | 10,000 | NS |
| TPH by EPA Method 8100M | | | | | | | | | | | | | | | |
| TPH (C9-C36) | 1000 | 5,800 | 2,400 | 630 | 21 | 460 | 160 | 14,000 | 96 | 6,700 | 530 | 200 | 410 | 2,500 | 2,500 |
| PCBs by EPA Method 8082 | | | | | | | | | | | | | | | |
| PCBs (Total Aroclors) | <0.16 | 4.5 | 0.5 | <0.15 | <0.10 | <0.11 | <0.11 | 0.44 | <0.14 | 1.5 | <0.12 | <0.17 | <0.15 | 10 | 10 |
| RCRA 8 Metals by EPA 6000/7000 Series | | | | | | | | | | | | | | | |
| Arsenic | 26 | 5.9 | 2.8 | 9.6 | <2.6 | <2.8 | <2.7 | <2.6 | 45 | 4.4 | 13 | 11 | 40 | 7.0 | NS |
| Barium | 600 | 140 | 24 | 70 | 11 | 46 | 19 | 97 | 420 | 89 | 40 | 440 | 480 | 10,000 | NS |
| Cadmium | 1.9 | 3.9 | 3.2 | 0.43 | 0.44 | 0.37 | 0.30 | <1.5 | 2.2 | 1.5 | 0.97 | 1.4 | 2.3 | 1,000 | NS |
| Chromium | 16 | 77 | 5.9 | 6.9 | 2.3 | 5.8 | 11 | 25 | 9.6 | 27 | 14 | 61 | 28 | 10,000 | NS |
| Lead | 610 | 280 | 37 | 6.8 | 8.9 | 82 | 98 | 120 | 320 | 160 | 89 | 1,400 | 680 | 500 | NS |
| Mercury | 1.4 | 0.91 | 0.31 | 0.043 | 0.035 | 0.16 | 0.20 | 0.15 | 0.28 | 0.34 | 0.12 | 4.5 | 4.5 | 610 | NS |
| Silver | <0.77 | 2.4 | <0.55 | <0.75 | <0.51 | <0.56 | <0.54 | 2.7 | 2.1 | <0.55 | <0.56 | 1.0 | 2.6 | 10,000 | NS |
| Notes: | 1) Sample identification and depth collected (feet below grade). 2) Method 1 soil objectives obtained from Section 8.02 of the RIDEM Remediation Regulations 3) Analytical results and Reportable Concentrations are reported in mg/kg. 4) < denotes analyte was not detected above the laboratory detection limit. 5) NS denotes no Criteria promulgated. 6) NA denotes the samples not tested for the given analyte. 7) Bold indicates and exceedance of the applicable Method 1 soil objectives. | | | | | | | | | | | | | | |

4.3 Groundwater Analytical Results

Groundwater samples were collected from monitoring wells CMW-01 through CMW-07 on February 12, 2016, and were submitted to Con-Test for the following analyses: TPH by EPA Method 8100M, VOCs by EPA Method 8260, and dissolved RCRA 8 Metals by the EPA 6000/7000 series methods. The laboratory analytical results for detected analytes are included in Table 4. The laboratory detection limits achieved during the analysis of the groundwater samples were below the applicable GB Groundwater Criteria for non-detect analytes. Laboratory data, methods, narratives, laboratory QA/QC, and the chain of custody form are included in Appendix 5.

Table 4 - Groundwater Analytical Results (Detects Only)

| Analyte | CMW-01 ⁽¹⁾ | CMW-02 | CMW-03 | CMW-04 | CMW-05 | CMW-06 | CMW-07 | GB Groundwater Objective ⁽²⁾ |
|--------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|---------|---------|---------|---------|---------|-----------------------------------------|
| VOCs by EPA Method 8260 | | | | | | | | |
| tert-Amyl Methyl Ether | <0.0005 ⁽³⁾⁽⁴⁾ | 0.0016 | 0.0039 | 0.0027 | <0.0005 | 0.0041 | <0.0005 | NS ⁽⁵⁾ |
| Benzene | <0.001 | <0.001 | 0.0032 | <0.001 | <0.001 | <0.001 | <0.001 | 0.07 |
| tert-butyl Alcohol | <0.02 | 0.057 | 0.043 | <0.02 | 0.089 | <0.02 | <0.02 | NS |
| n-Butylbenzene | <0.001 | <0.001 | 0.0054 | <0.001 | <0.001 | <0.001 | <0.001 | NS |
| sec-Butylbenzene | <0.001 | <0.001 | 0.0089 | <0.001 | <0.001 | <0.001 | <0.001 | NS |
| tert-Butylbenzene | <0.001 | <0.001 | 0.0018 | <0.001 | <0.001 | <0.001 | <0.001 | NS |
| tert-Butyl Ethyl Ether | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | 0.00095 | <0.0005 | NS |
| Ethylbenzene | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 0.0019 | <0.001 | 1.6 |
| Isopropylbenzene | <0.001 | <0.001 | 0.021 | <0.001 | 0.014 | <0.001 | <0.001 | NS |
| Methyl tert-Butyl Ether | <0.001 | 0.016 | 0.045 | 0.033 | 0.021 | 0.045 | <0.001 | 5.0 |
| n-Propylbenzene | <0.001 | <0.001 | 0.05 | <0.001 | <0.001 | <0.001 | <0.001 | NS |
| Toluene | <0.001 | <0.001 | 0.008 | <0.001 | <0.001 | 0.0058 | <0.001 | 1.7 |
| 1,2,4-Trimethylbenzene | <0.001 | <0.001 | 0.0038 | <0.001 | <0.001 | 0.0046 | 0.0059 | NS |
| 1,3,5-Trimethylbenzene | <0.001 | <0.001 | 0.0011 | <0.001 | <0.001 | 0.0019 | 0.0023 | NS |
| Total Xylenes | <0.003 | <0.003 | 0.0042 | <0.003 | <0.003 | 0.015 | 0.0043 | NS |
| TPH by EPA Method 8100M | | | | | | | | |
| TPH (C9-C36) | <0.2 | 0.45 | 1.9 | <0.2 | 0.24 | 0.23 | 0.96 | NS |
| Dissolved RCRA 8 Metals by EPA 6000/7000 Series | | | | | | | | |
| Arsenic | 0.011 | 0.0046 | 0.0072 | 0.0023 | 0.0092 | 0.0047 | 0.0013 | NS |
| Barium | 0.39 | 0.72 | 0.38 | 0.073 | 0.42 | 0.7 | 0.88 | NS |
| Lead | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | 0.008 | NS |
| Notes: | 1) Sample identification. 2) Method 1 Groundwater Objectives obtained from Section 8.03 of the <u>Remediation Regulations</u> and derived in Section 3.1. 3) Analytical results and Reportable Concentrations are reported in milligrams per liter (mg/L). 4) < denotes analyte was less than the laboratory detection limit. 5) NS denotes No standard promulgated. | | | | | | | |

4.4 Sediment Sampling

Sediment samples SD-01 through SD-08, collected on February 12, 2016, were submitted to Con-Test, for the following analyses: TPH by the EPA Method 8100M, VOCs by EPA Method 8260, PCBs by EPA Method 8082, and RCRA 8 Metals by EPA 6000/7000 series methods. Laboratory analytical results for detected analytes are included in Table 5. Although not directly applicable to contaminants in sediment, the data are compared to the RIDEM I/C DEC soil objectives in the following table for relative comparative purposes. Laboratory data, methods, narratives, laboratory QA/QC, and the chain of custody form are included in Appendix 5.

Table 5 - Sediment Analytical Data (Detects only)

| Analyte | SD-01 ⁽¹⁾ | SD-02 | SD-03 | SD-04 | SD-05 | SD-06 | SD-07 | SD-08 | I/C DEC ⁽²⁾ |
|----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-------|---------|--------|---------|---------|---------|------------------------|
| VOCs by EPA Method 8260 | | | | | | | | | |
| Methyl tert-Butyl Ether | <0.003 ⁽³⁾ | <0.003 | 0.029 | <0.0032 | <0.005 | <0.0039 | <0.0043 | <0.0046 | 10,000 |
| Naphthalene | <0.003 ⁽⁴⁾ | 0.007 | 0.15 | <0.0032 | <0.005 | <0.0039 | <0.0043 | <0.0046 | 10,000 |
| TPH by EPA Method 8100M | | | | | | | | | |
| TPH (C9-C36) | 920 | 770 | 3,000 | 340 | 530 | 230 | 210 | 140 | 2,500 |
| PCBs by EPA Method 8082 | | | | | | | | | |
| PCBs (Total Aroclors) | 0.71 | 0.82 | 2.48 | <0.13 | 0.22 | 0.35 | 0.51 | 0.15 | 10 |
| RCRA 8 Metals by EPA 6000/7000 Series | | | | | | | | | |
| Arsenic | <3.1 | 3.7 | <4.5 | <3.1 | 10 | <3 | <2.9 | <3.1 | 7 |
| Barium | 50 | 140 | 130 | 11 | 120 | 25 | 180 | 15 | 10,000 |
| Cadmium | 0.74 | 1.3 | 2.3 | 0.32 | 0.86 | 0.67 | 1.2 | 0.32 | 1,000 |
| Chromium | 35 | 46 | 56 | 5.6 | 21 | 11 | 8.8 | 8.8 | 10,000 |
| Lead | 180 | 210 | 320 | 120 | 130 | 50 | 140 | 76 | 500 |
| Mercury | 0.50 | 0.96 | 1.3 | 0.032 | 0.27 | 0.12 | 0.19 | 0.057 | 610 |
| Notes: | 1) Sample identification and depth collected (feet below grade). 2) Method 1 soil objectives obtained from Section 8.02 of the RIDEM Remediation Regulations (for relative comparison only) 3) Analytical results and Reportable Concentrations are reported in mg/kg. 4) < denotes analyte was not detected above the laboratory detection limit. 5) NS denotes no Criteria promulgated. | | | | | | | | |

4.5 Analytical Data Quality Assurance and Quality Control (QA/QC)

Following the receipt of analytical results, Coneco conducted a data validation review to ensure that all laboratory data is of defensible analytical quality. Procedures employed were consistent with EPA Region I Data Validation Functional Guidelines for Evaluating Environmental Analyses. Coneco's review of laboratory documentation, including analytical results, narratives, and chains-of-custody provided by Con-Test for the samples collected from the Site, identified no departure from the requirements specified by the EPA. Details regarding non-conformances can be found in the laboratory narratives included in Appendix 5.

It is the opinion of Coneco that the presented laboratory data is in compliance with the applicable EPA and RIDEM standards and laboratory QC requirements. As such, laboratory data produced for the above samples are considered valid and do not require adjustment.

5.0 REPORTING REQUIREMENTS

Pursuant to RIDEM regulations, remedial objectives for hazardous substances in impacted media at a property shall be evaluated to manage the actual or potential risks to human health and the environment. As presented in Section 8.02 in the Remediation Regulations, soil contaminated as a result of a release of oil and/or hazardous material shall be remediated in a manner which meets the Direct Exposure and Leachability Criteria for each hazardous substance established in Rule 8.02. Pursuant to Rule 5.01 of the Remediation Regulations, a Responsible Party shall notify RIDEM of the discovery of any Release in accordance with the requirements of Rule 5.00 (Notification) which was not previously reported to RIDEM by any Responsible Party. Any release which requires notification shall be reported no later than 15 days after the discovery of the Release.

For those concentrations of Hazardous Substances that are in excess of the soil objectives as specified in Rule 8.02.B (Method 1 Soil Objectives) and are in an amount and concentration which present a significant potential to cause an acute or chronic adverse effect on human health or the environment, the Responsible Party shall provide notification to the Office of Waste Management consistent with Rule 5.02. Notification of a Release for soil is not required provided that all of the following Site conditions are met:

| Table 6 - Conditions for Exemption of Reportable Concentrations in Soil | |
|----------------------------------------------------------------------------------------------------------------------------|-------------------------------|
| Condition | Condition Met for Site |
| The Release has impacted an area currently limited to Industrial/Commercial activity | Yes |
| The reasonably foreseeable future use of the property impacted by the Release is limited to Industrial/Commercial activity | Yes |
| The groundwater underlying the Site is classified as a GB area | Yes |
| There are no wellhead protection area or active wells known to exist within 500 feet of the Site | Yes |
| There are no GA/GAA areas within 500 feet of the Site | Yes |
| The abutting properties are used for Industrial/Commercial activity | Yes |
| There is no physical boundary of any wetland or surface water within 500 feet of the Release | No |

As presented in Section 8.03 in the Remediation Regulations, groundwater contaminated as a result of a release of oil and/or hazardous material located in a GB area shall be remediated to a concentration which meets the groundwater objective for each Hazardous Substance established in Rule 8.03. Responsible Parties that have had a Release which has impacted or threatens to impact groundwater shall notify RIDEM when; 1) any Hazardous Substance in groundwater is at a concentration which exceeds any of groundwater objectives for the Hazardous Substance as specified in Rule 8.03 (Groundwater Objectives); or, 2) any hazardous substance in groundwater for which a Groundwater Objective has not been promulgated in Rule 8.03 is in an amount or concentration which presents a significant potential to cause an acute or chronic adverse effect on human health or the environment; or 3) a Responsible Party has a reasonable cause to believe that a discharge or Release has occurred which may result in an exceedance of any appropriate groundwater objective. As summarized herein, no analyzed compounds were detected in groundwater above the respective GB Objectives for samples collected at the Site on February 12, 2016.

Because the Site is located adjacent to a surface water body (the Providence River), concentrations of analyzed compounds in soil that exceed the Industrial/Commercial Direct Exposure Criteria or GB leachability criteria listed in Tables 1 and 2 of Rule 8.02 would require notification to RIDEM. However, the history of OHM contamination at the Site is well documented in RIDEM files in relation to a number of Site investigations and remediation activities conducted at the Site from as early as 1986. The contaminants detected in soil, groundwater, and sediment during this Phase II investigation are generally similar to those previously identified in soil, groundwater, and sediment during previous investigations. Extensive excavation of PCB-impacted soil was previously conducted at the Site and an ELUR was implemented to limit exposure to known contaminants of concern.

The presence of elevated TPH concentrations (up to 14,000 mg/kg) in surficial soil at the Site, exceeding the respective I/C DEC and GBLC, may be attributable to current salvage/recycling operations at the Site, and therefore, may represent a previously undocumented release condition requiring Notification to RIDEM under Rule 5.0 of the Remediation Regulations.

6.0 SUMMARY OF FINDINGS

6.1 Discussion

Soil Stockpiles

Soil stockpile analytical data obtained for the Site as part of this subsurface investigation is compared to the RIDEM I/C DEC and the GB Leachability Criteria. The reported concentrations of benzo(a)pyrene in stockpiles SP-01 and SP-02, 2.1 and 4.2 mg/kg, respectively, exceed the I/C DEC objectives. In addition, the reported concentration of lead in stockpile SP-02, 730 mg/kg, exceeds the I/C DEC objective for this compound. The laboratory analytical data indicate that shipment of the stockpiled soil to an approved receiving facility for reuse or disposal is warranted. The data do not indicate that the stockpiled soil requires handling as characteristic hazardous waste. The stockpiles may be transported off-Site as for recycling and/or for use as landfill cover. It is noted that anthropogenic debris is present in the stockpiles, including brick, metal, wood, foam, and other debris, at a sufficient quantity and at sufficient sizes to warrant screening of this material from the stockpiles prior to transport off-Site to ensure compliance with receiving facility acceptance criteria.

Soil

Soil analytical data obtained for the Site as part of this subsurface investigation is compared to the RIDEM I/C DEC and the GB Leachability Criteria. The reported concentration of toluene in the soil sample collected from 2 to 4 feet below grade at soil boring SB-07 (77 mg/kg) exceeds the GB Leachability Criteria. The reported concentrations of TPH in the soil samples collected from 0 to 2 feet below grade at soil boring SB-02 (5,800 mg/kg), 2 to 4 feet below grade at soil boring SB-07 (14,000 mg/kg), and 0 to 2 feet below grade at soil boring SB-09 (6,700 mg/kg) exceed the I/C DEC objectives and the GB Leachability Criteria. The presence of elevated TPH concentrations exceeding the I/C DEC and GBLC in surficial soil at the Site may be attributable to current Site operations, and therefore may represent previously undocumented release condition requiring notification to RIDEM under Rule 5.0 of the Remediation Regulations.

The reported concentrations of arsenic in the soil samples collected from 8 to 10 feet below grade at soil boring SB-01 (26 mg/kg), 12 to 14 feet below grade at soil boring SB-03 (9.6 mg/kg), 8 to 10 feet below grade at soil boring SB-08 (45 mg/kg), 4 to 6 feet below grade at soil boring SB-09 (13 mg/kg), 8 to 10 feet below grade at soil boring SB-10 (11 mg/kg), and 4 to 6 feet below grade at soil boring SB-11 (40 mg/kg) exceed the I/C DEC objectives. As documented in a February 19, 1993, *Final Site Inspection Report For Boliden Metech, Inc.*,

prepared by Roy F. Weston, Incorporated (Weston), arsenic was previously detected in soil at the Site at concentrations up to 35 mg/kg based on the findings of subsurface investigations performed at the Site as early as 1988.

The reported concentrations of lead in the soil samples collected from 8 to 10 feet below grade at soil boring SB-01 (610 mg/kg), 8 to 10 feet below grade at soil boring SB-10 (1,400 mg/kg), and 4 to 6 feet below grade at soil boring SB-11 (680 mg/kg) exceed the I/C DEC objective for this compound. As documented in the February 19, 1993, *Final Site Inspection Report For Boliden Metech, Inc.*, prepared by Weston, lead was previously detected in soil at the Site at concentrations up to 4,890 mg/kg based on the findings of subsurface investigations performed at the Site as early as 1988.

PCBs were not detected above I/C DEC or GBLC objectives in the soil samples analyzed for this Phase II investigation.

Based on field observations of Site conditions during performance of the Phase II investigation, Coneco observed significant disturbance to the protective soil cap previously installed at the Site in 2002 and required to be maintained under the conditions of the ELUR. In a Phase I ESA prepared for the Site by Lakeshore Environmental, Incorporated (Lakeshore), dated May 9, 2013, Lakeshore reported that, based on observations during an August 2011 ELUR inspection, salvage operations at the Site which involved the movement of heavy machinery across the Site had the potential to damage the existing cap. In a May 20, 2015 Site Memorandum, RIDEM personnel noted that the integrity of the cap had been “jeopardized” as a result of Site activities and that the Site was not in compliance with the conditions of the ELUR. At the time of the subject Phase II investigation, Coneco observed similar conditions to those referenced in the May 2015 RIDEM memorandum. In their May 9, 2013 Phase I ESA report, Lakeshore reported that, as of 2011, approximately 65 to 70 percent of the land surface at the Site had been covered with a compacted ground asphalt cover to serve as an “armored base” to protect the soil cap, and recommended that a similar base material be installed on the remainder of the Site. Based on visual observations of the soil column in the soil borings advanced throughout the Site during the subject Phase II investigation, Coneco personnel did not observe the crushed asphalt base material at any of the soil boring locations and could not confirm the current condition or presence of this armored cap.

Groundwater

The Site is not located within a GA or GAA groundwater resource area and no known private or public water supply wells are located within 500 feet of the Site. Groundwater analytical data collected for the Site from monitoring wells installed as part of the subject Phase II Investigation are compared to the GB Groundwater Objectives. As summarized in Table 4, no detected concentrations of analyzed contaminants of concern for which Groundwater Objectives have been promulgated in Rule 8.03 exceed the applicable GB Groundwater Objectives.

Groundwater samples from monitoring wells CMW-02 through CMW-07 exhibit VOC concentrations ranging from 0.00095 mg/L to 0.089 mg/L (CMW-05). Groundwater samples

from monitoring wells CMW-02, CMW-03, CMW-05, CMW-06, and CMW-07 exhibit TPH concentrations ranging from 0.23 mg/L to 1.9 mg/L (CMW-03). Groundwater samples exhibit concentrations of dissolved arsenic ranging from 0.0013 mg/L to 0.011 mg/L (CMW-01), and dissolved barium from 0.073 mg/L to 0.88 mg/L (CMW-07). A dissolved lead concentration of 0.008 mg/L was also detected in the groundwater sample from monitoring well CMW-07.

As reported by Lakeshore in their May 9, 2013 Phase I ESA, six monitoring wells formerly present at the Site were sampled in 2005 to establish baseline conditions for potential contaminants of concern. At that time, various metals concentrations were detected in groundwater below the GB Groundwater Objectives, no VOCs or PCBs were detected above laboratory reporting limits, and TPH was detected at only one monitoring well location at a concentration of 5.2 mg/L. Following replacement of several monitoring wells that had been destroyed, in 2011, Lakeshore re-sampled groundwater at the Site. According to Lakeshore, various metals were again detected below the GB Objectives in the 2011 groundwater samples and TPH was detected in all but one monitoring well at concentrations ranging from 482 mg/L to 2,750 mg/L¹. VOCs indicative of weathered gasoline, including MBTE, were also reportedly detected below the GB Objectives in all but one of the monitoring wells in 2011. Lakeshore reported that the groundwater quality at the Site had been “minimally impaired by historic and current activities.” In general, VOC, TPH, and metals concentrations detected in groundwater during the subject Phase II investigation are consistent with those detected during the 2011 sampling event conducted by Lakeshore, with no notable increases in contaminant concentrations in groundwater across the Site.

No conditions requiring Notification of RIDEM were identified based on the groundwater analytical data for the Site.

Sediment

Sediment data obtained for the Site as part of this subsurface investigation is evaluated against the I/C DEC Soil Objectives for relative comparative purposes, in lieu of Site-specific sediment benchmark criteria or derived risk characterization guidelines. Sediment sample SD-03 exhibits a TPH concentration (3,000 mg/kg) exceeding the I/C DEC, and sample SD-05 exhibits an arsenic concentration (10 mg/kg) exceeding the respective I/D DEC. No other compounds were detected above the respective I/C DEC Objectives in the sediment samples collected at the Site during this investigation. As previously reported by Weston in February 1993, elevated concentrations of metals, including lead at up to 5,700 ppm, were historically detected in sediment samples collected from the eastern portion of the Site. In general, the metals concentrations detected in the sediment samples collected during the subject Phase II investigation appear to be consistent with or less than concentrations historically detected at the Site. It is noted that, due to the highly industrialized nature of surrounding property use and the long history of industrial development and use along the Providence River shoreline in the vicinity of the Site, a definitive source of contaminant concentrations in sediment

¹ Based on the previous groundwater data for the Site and Lakeshore’s conclusions regarding the 2011 data, it is likely that 2011 groundwater TPH data ranged from 482 to 2,750 micrograms per liter (ug/L) or 0.482 to 2.75 mg/L, and that the TPH concentration units were misidentified in the May 9, 2013 Phase I ESA Report.

adjacent to the Site has not been confirmed based on the findings of this investigation, and may be related to one or multiple off-Site contributing historical sources.

6.2 Conclusions and Recommendations

Results for the Subsurface Investigation conducted at the Site identified as 434 Allens Avenue in Providence, Rhode Island were evaluated in a manner consistent with guidelines as presented in accordance with the RIDEM Remediation Regulations and the ASTM *Standard Practice for Environmental Site Assessments: Phase II Environmental Site Assessment Process* (ASTM E 1903-11). Based on the information and observations described herein, the following conclusions and recommendations are presented:

- *Coneco recommends the off-Site transport and reuse or disposal of the two soil stockpiles currently located on the eastern portion of the Site.*

Analytical data for the pre-characterization stockpile soil samples indicates that this material does not require management as hazardous waste, but may be transported off-Site to an approved receiving facility for recycling or reuse as landfill cover. Coneco estimates that the stockpiles comprise between 800 to 1,200 cubic yards of soil. To the extent feasible, all solid debris observed within the stockpiles should be removed prior to soil shipment to ensure compliance with the acceptance criteria of the selected receiving facility. One or more additional pre-characterization samples may be required to satisfy the acceptance criteria for the selected receiving facility.

- *Coneco recommends the removal and proper off-Site disposal of all scrap metal, recycled materials, solid waste, and other debris from the Site to mitigate the potential for release of residual OHM associated with this material and to facilitate additional assessment and evaluation of soil conditions and conditions of the protective soil cap.*
- *Coneco recommends impacted surficial soil and identified soil contaminant hot spots potentially associated with current Site operations be excavated and shipped off-Site for proper reuse or disposal at an approved receiving facility.*

Elevated TPH concentrations (up to 14,000 mg/kg) were detected in surficial and near surface soil (0 to 4 feet below grade) at several locations in the central portion of the Site, including the locations of SB-02, SB-07 and SB-09. Concentrations of other detected contaminant compounds in soil are generally consistent with those historically detected at the Site, for which extensive investigation and remediation documentation has been filed with RIDEM. However, the TPH concentrations identified in surficial soils during this Phase II investigation, which may be attributable to current or recent Site operations, may represent a new or previously undocumented release condition for which notification of RIDEM is warranted by the potentially responsible party. Coneco initially estimates that 5,000 to 7,500 cubic yards of surficial soil (to depths of 1 to 2 feet below surface grade) may require excavation and removal from the central and eastern portions of the Site to address elevated TPH concentrations within the primary locations of current metal salvage and recycling operations and to prepare the Site for restoration of the protective clean soil cap. The volume estimate for excavation may be revised pending collection

and analysis of additional soil samples from within the area of current Site operations to further define the extent of contamination. In order to comply with the conditions of the ELUR and associated SMP, RIDEM should be notified and provided with a plan for future excavation activities at the Site.

- *Following excavation, Coneco recommends that the protective clean soil cap be replaced/restored at the Site to comply with the conditions of the ELUR.*

Clean fill material would be imported and placed on-Site and subsequently graded to restore the protective cap specified in the ELUR. Coneco recommends that prior to cap replacement, a geotextile marker fabric be placed directly beneath the cap to demarcate the base of the clean fill cap to alert Site occupants of the limits of the capping material relative to any future disturbance of subsurface soils. Following cap replacement, Coneco recommends that an appropriate vegetative cover be implemented to stabilize the capping materials and prevent or limit surface runoff and/or erosion of the cap.

- *Coneco recommends continued periodic monitoring of groundwater conditions at the Site.*

Coneco recommends that the monitoring wells installed at the Site during this subject Phase II investigation be maintained, or otherwise replaced if destroyed during soil excavation and cap restoration. At a minimum, Coneco recommends that the monitoring wells at the Site be sampled once every 5 years for analysis of TPH, VOCs, and RCRA 8 Metals to ensure that contaminant concentrations in groundwater at the Site are stable or decreasing. Based on the findings of this Phase II investigation, no analyzed contaminants were detected in groundwater at concentrations above the GB Objectives. Furthermore, concentrations detected in groundwater during this investigation were generally consistent with concentrations detected during a previous 2011 groundwater sampling event. These findings suggest that Site operations during the past 5 years have not significantly degraded groundwater conditions at the Site.

In addition to the recommendations presented above, Coneco anticipates that RIDEM may require additional investigation and/or response actions to address conditions at the Site. Additional investigation may include supplemental sediment, soil, and/or groundwater sampling, and monitoring of Site storm water and runoff controls. Additional response actions may include removal of derelict vessels currently located within the Providence River adjacent to the eastern portion of the Site, and design, installation and maintenance of runoff and storm water controls for mitigation of potential future surface water impacts in relation to the Site. Coneco recommends that RIDEM be consulted prior to implementation of the response actions recommended herein regarding requirements for further investigation and response actions to address Site conditions and to ensure compliance with the ELUR.

7.0 LIMITATIONS

This assessment was performed at the Client's request utilizing methods and procedures consistent with good commercial or customary practice designed to conform to acceptable industry standards. This report is exclusively for the use and benefit of the Client, identified on the cover page of this report, and is not for the use or benefit of, nor may it be relied upon by, any other person or entity without the advance written consent of Coneco.

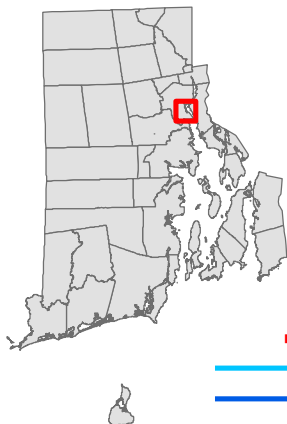
The conclusions expressed by Coneco in this report are based solely on the references cited. Observations were made under the conditions stated. Information provided by federal, state, and local agencies contacted was relied upon as accurate and complete. The purpose of this study was to establish via a limited scope of work whether there is evidence that a release of oil or hazardous materials has occurred at the Site or that a threat of release exists. This report represents Coneco's opinion relative to such evidence. Unless otherwise specified in the scope of work, Coneco accepts no responsibility for client performance of recommendations as may be offered in this report. No attempt was made to investigate Site owner or operator compliance with federal, state, or local laws and regulations in connection with Site usage.

With specific regard to subsurface explorations, data obtained from specific soil and groundwater sampling points may not be wholly representative of the nature of subsurface conditions at locations other than the actual test boring and monitoring well locations on the date the samples were obtained. Variable conditions may only become evident upon further sampling, analysis, and/or exploration or prior to anticipated future construction activities. Should additional information become available concerning this Site or neighboring properties in the future, that information should be made available to Coneco for review so that the conclusions presented in this report may be modified as necessary.



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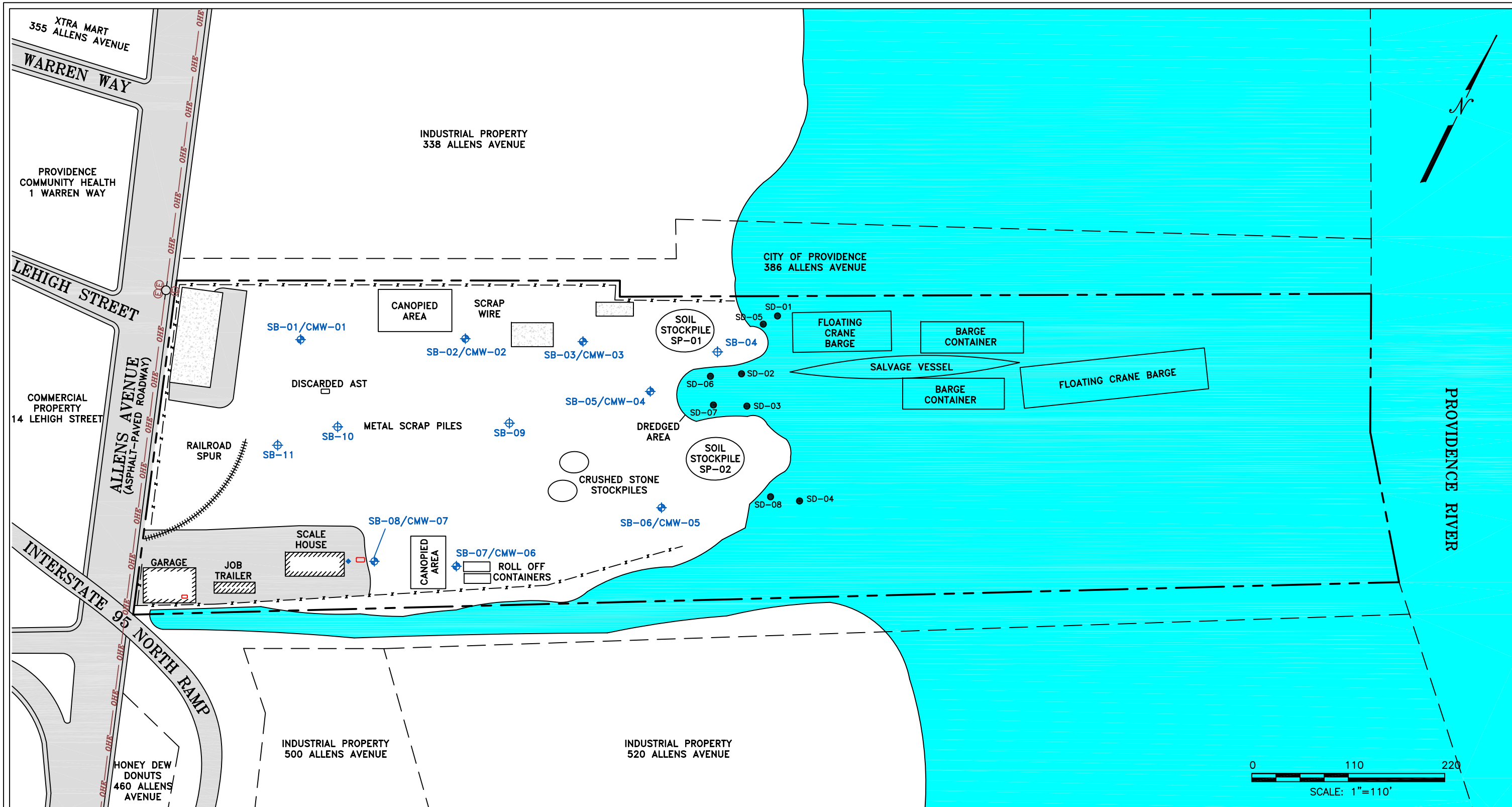
LATITUDE: 41.80234° LONGITUDE: -71.39976°
 UTM: 4,630,615 N 300,636 E (Zone 19)



OFFICES THROUGHOUT NEW ENGLAND (800) 548-3355

SITE LOCUS MAP
 INDUSTRIAL PROPERTY
 434 ALLENS AVENUE
 PROVIDENCE, RHODE ISLAND

| SCALE | PROJECT NO. | DRAWING NUMBER |
|----------|-------------|----------------|
| 1:25,000 | 7400.B | FIGURE 1 |



NOTE: THE LOCATION AND DIMENSIONS OF THE SITE AND VICINITY FEATURES ARE APPROXIMATE AND BASED UPON CITY OF PROVIDENCE ASSESSOR'S CARD 47 AND CONECO FIELD OBSERVATIONS.

| LEGEND | | | |
|--------|---------------------------|--|--------------------------------------------------------------------|
| | SITE BOUNDARY | | CONECO SOIL BORING AND MONITORING WELL LOCATION AND IDENTIFICATION |
| | PROPERTY LINES | | CONECO SOIL BORING LOCATION AND IDENTIFICATION |
| | CHAIN-LINK FENCE | | SEDIMENT SAMPLE LOCATION AND IDENTIFICATION |
| | OVERHEAD ELECTRICAL LINES | | SURFACE WATER |
| | ABOVEGROUND STORAGE TANK | | ASPHALT-PAVED SURFACE |
| | | | CONCRETE SURFACE |

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| | | | |
|------|----------|----------|-------------------------|
| BY | UPDATED | CHECKED | CAD FILE NO. |
| DATE | 03/02/16 | 03/03/16 | Z:/77400.B Figure 2.dwg |

| SITE PLAN | | |
|-------------------------------------------------------------------------------------------|-------------|----------------|
| INDUSTRIAL PROPERTY 434 ALLENS AVENUE PROVIDENCE, RHODE ISLAND | | |
| SCALE | PROJECT NO. | DRAWING NUMBER |
| AS NOTED | 7400.B | FIGURE 2 |

SITE PHOTOGRAPHS



Photo 1
Stockpile SP-02, as viewed from the northeast on February 5, 2016.



Photo 2
Stockpiles SP-01 (red arrow) and SP-02 (yellow arrow), as viewed from the southeast on February 5, 2016.



Photo 3
The location of soil boring SB-01/CMW-01, as indicated by the red arrow, during subsurface investigation activities on February 9, 2016, as viewed from the northeast.



Photo 4
The location of soil boring SB-05/CMW-04, as indicated by the red arrow, during subsurface investigation activities on February 9, 2016, as viewed from the southwest.



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SITE PHOTOGRAPHS

**INDUSTRIAL PROPERTY
434 ALLENS AVENUE
PROVIDENCE, RHODE ISLAND**

| PHOTOGRAPHER | DATE | CHECKED | FILE NO. |
|--------------|----------|---------|--------------------------------------|
| TSN | AS NOTED | MEB | Z:\7400.B\PHOTOS\7400.B - PHOTOS.DOC |



Photo 5

The location of soil boring SB-07/CMW-06, as indicated by the red arrow, during subsurface investigation activities on February 9, 2016, as viewed from the northeast.



Photo 6

Approximate locations of sediment samples SD-01 (red arrow) and SD-05 (yellow arrow) during sampling activities on February 12, 2016, as viewed from the southwest.



Photo 7

Pre-determined locations of sediment samples SD-02 (yellow arrow), SD-03 (red arrow), SD-06 (green arrow) and SD-07 (blue arrow), as viewed from the southwest on February 9, 2016. (Sediment sampling activities were conducted on February 12, 2016.)



Photo 8

Approximate locations of sediment samples SD-04 (red arrow) and SD-08 (yellow arrow) during sampling activities on February 12, 2016, as viewed from the southwest.



OFFICES THROUGHOUT NEW ENGLAND (800) 548-3355

SITE PHOTOGRAPHS

**INDUSTRIAL PROPERTY
434 ALLENS AVENUE
PROVIDENCE, RHODE ISLAND**

PHOTOGRAPHER

DATE

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FILE NO.

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STANDARD OPERATING PROCEDURES

Standard Operating Procedure: Soil Borings In Overburden Materials

Discussion:

Test boring programs in unconsolidated overburden materials may be conducted using a variety of drilling techniques. As most borings associated with site assessment techniques are performed in conjunction with monitoring well installation, the potential for downhole contamination from outside sources or near-surface soils is a concern. It is therefore desirable to utilize a technique which does not involve the introduction of drilling fluids into the borehole. It is for this reason that hollow-stem auger methods are most commonly employed. The auger column is comprised of a series of individual hollow auger sections that are typically 5 feet in length. The open stem of the auger column enables the borehole to be drilled while simultaneously serving as a temporary casing to prevent collapse of the borehole wall, and in turn facilitating the collection of the samples from the unconsolidated soil formations. The initial surface sample, i.e. 0-2 feet, is typically collected as a discrete sample from the auger flight cuttings. Unless otherwise specified, further sampling of the overburden is performed utilizing a split-barrel sampler at five foot intervals.

Procedure:

- 1) All boring activities are continuously inspected by a qualified CONECO geologist or engineer. The inspector is familiar with the selected drilling program and is responsible for the drilling and QA/QC procedures. Boring logs and field notes, as well as procedural changes, are the responsibility of the inspector.
- 2) All drilling equipment is steam cleaned prior to initial use at the site. The decision as to whether the drilling equipment is steam cleaned between boring locations is made in the field by the CONECO inspector and is based on field observations including photoionization detector (PID) levels.
- 3) Particular attention is to be paid to the cuttings transported by the auger column. Observations of the auger cuttings are noted for stratigraphic contacts and basic lithology as well as unusual conditions, including odor and discoloration.
- 4) Once the desired sampling depth has been reached (typically 5 feet below grade and at subsequent 5-foot intervals), the center rod of the auger column is withdrawn and the plug is replaced with a split-barrel sampler. The CONECO field personnel ensure that the center rod and sampler assembly are extended to the proper sampling depth.
- 5) Successive blows of a 140-pound hammer weight free-falling 30 inches are used to drive the sampler 18 to 24 inches beyond the base of the auger stem into the undisturbed soils. Blow counts for each 6 inches of advance are recorded as a relative measure of soil density. These data represent the Standard Penetration Test (SPT) ASTM D 1586 used to evaluate soil density.
- 6) Descriptions of the sample materials, stratigraphy, blow counts, as well as drilling activities and notable drilling parameters are recorded on the test boring log. Soil

Standard Operating Procedure: Soil Borings In Overburden Materials (Cont'd)

samples, when recovered, are placed in appropriate containers for PID screening and laboratory analysis, if required.

- 7) Auger flight cuttings remaining from drilling activities will remain on-Site. Those soils exhibiting PID levels of 10 ppm or greater will be segregated and either containerized or placed on and covered with 6-mil polyethylene.

Discussion:

The simplest, most direct method of collecting soil samples for subsequent laboratory analysis or field screening is the use of a spade and/or scoop. A normal lawn or garden spade is utilized to remove the top cover of soil to the required depth and then a smaller stainless steel scoop is used to collect the sample.

This method can be used in most soil types but is limited somewhat to sampling near the surface. Samples from depths greater than 2 feet become labor intensive in most soil types. Very accurate, representative samples can be collected using this procedure depending on the care and precision demonstrated by the technician. The use of a flat, pointed mason trowel to cut a block of the desired soil will be of aid when undisturbed profiles are required. A stainless steel scoop or laboratory spoon will suffice in most other applications. Care should be exercised to avoid the use of devices plated with chrome or other materials, as metallic plating can affect ionic concentrations in the sample. Plating is particularly common with garden implements such as potting trowels.

Procedure:

- 1) Prior to initiating any work, the Health and Safety Plan developed for the specific site activities should be reviewed by the Field Technician and the Project Manager. The indicated precautions on the Plan should be enacted prior to initiation of the sampling activities. Any concerns not addressed in the Health and Safety Plan document are to be brought to the attention of the Health and Safety Officer.
- 2) Carefully remove the top layer of soil to the desired sample depth with a precleaned spade.
- 3) Using a precleaned stainless steel scoop or trowel, remove and discard a thin layer of soil from the area which comes in contact with the shovel.
- 4) Transfer the sample into an appropriate sample container with a clean stainless steel laboratory spoon or similar instrument.
- 5) Secure the cap tightly. Label the sample bottle with the appropriate sample tag. The chemical preservation of solids is generally not recommended. Be sure to label the tag carefully and clearly, addressing all the categories and parameters. Refrigerate sample until shipment to the laboratory.
- 6) Complete all chain-of-custody documents and record in the field log book.
- 7) Decontaminate equipment after use and between sample locations using applicable standard operating procedures.

Standard Operating Procedure: Field Headspace Screening -Photoionization Detector

Discussion:

Sample materials collected in the field are placed in tightly sealed clean glass jars to be screened for volatile compounds using either a HNU Model PI-101 or HW-101 photoionization detector (PID). CONECO utilizes the HW-101 when the field personnel consider moisture to be a potential variable. The PIDs can be used to detect organic or inorganic compounds with specific ionization potentials, however, individual compounds cannot be discriminated. Therefore, the results for total volatile vapor concentrations are expressed in the meter reading which the manufacturer defines as parts per million (ppm) of an equivalent amount of benzene. The limit of detectability of the screening procedure is 0.1 ppm.

Each instrument is cleaned and calibrated in accordance with the manufacturer's specifications on a regular basis. CONECO maintains individual maintenance and calibration logs for each PID. Prior to use in the field, the PID is calibrated using a benzene standard or equivalent (isobutylene) and the calibration data is logged.

Procedure:

- 1) Prior to use in the field, the photoionization detector (PID) is to be calibrated in accordance to manufacturers specifications.
- 2) Place the sample in an eight or ten-ounce jar until the jar is approximately half-full. Place thick aluminum foil over the mouth of the jar to create an effective seal. Shake the sample jar for 15 seconds and let stand at temperatures above 50° F.
- 3) After 10 to 15 minutes of equilibration time, shake the sample jar a second time and position the container for sampling. Puncture the aluminum foil seal with the PID probe tip, making sure that the probe tip does not come in contact with the sample material.
- 4) Observe the instrument meter and record the highest reading. The meter reading will most often peak within five seconds and steadily decrease as ambient air is introduced into the medium. If erratic variation is noted in the meter reading, the sample will be retested. Weather conditions are to be noted in conjunction with the PID data.

Standard Operating Procedure: Monitoring Well Installation

Discussion:

Proper installation of monitoring wells is an essential element to an accurate hydrologic or site assessment investigation. Installation of monitoring wells typically consists of a 2 inch inside diameter (ID) Schedule 40 PVC well screen (0.1 inch slot size) and similar solid riser pipe. The screened interval is usually 10 feet in length and is centered at the apparent groundwater surface at the time of installation. One inch or four inch ID screen and riser may also be used depending on the constraints and objectives of the drilling program.

Procedure:

- 1) Upon completion of the test boring, the preassembled well screen and riser, with bottom plug siltation trap, is inserted into the borehole or more commonly, into the hollow stem auger or casing, as removing the auger flights can cause the surrounding formation to prematurely collapse on the well screen.
- 2) The well assembly is positioned at the desired depth and the annular space between the sidewall and well casing assembly is then backfilled with a clean, well sorted silica sand to a depth at least one foot above the well screen/riser connection. The screen and riser pipe is installed to be vertically plumb.
- 3) Once the sand filter pack is emplaced to the proper depth below grade (measured with tape), a divider seal, most commonly bentonite pellets, is inserted into to the annular space until a six-inch to 1-foot thick impermeable seal is formed around the casing.
- 4) The method for the backfilling the remainder of the annular space is determined by the qualified CONECO personnel. Typically, native material removed from the borehole having a PID reading below 10 ppm is then used to backfill the remaining annular space. Alternative backfill materials include concrete slurry or bentonite/water mixtures. The well riser is then fitted with a top plug and a locking protective casing or road box.
- 5) The protective casing or road box is securely cemented in place over the well. The cement seal is at a minimum one foot thick. If a road box is used, it is cemented flush with the pavement surface. If used, other protective casings should be grouted in place at least 0.5 feet above grade and identified with flagging.

Discussion:

Water standing in a well prior to development and sampling may not be representative of true groundwater quality in the aquifer. It is therefore necessary to first purge the well of all stagnant water so that a representative groundwater sample can be obtained. Depending upon the monitoring well construction and hydraulic characteristics of the aquifer, well development may be conducted by manual bailing or with a submersible pump. Bailing is most appropriate for low yield or deep wells, whereas a pump may be suitable for higher yield wells or where sampling within a discrete zone is necessary.

Procedure:

- 1) Using a clean groundwater sensor indicator determine the depth to the water table and determine the total depth of the well and record in the field logbook. Depth to groundwater should be measured from a specified reference point on the PVC riser pipe.

Then calculate the volume of standing water using the following equation:

$$v = \pi r^2 h \text{ where:}$$

$$v = \text{one well volume of water (generally converted to gallons)}$$

- for inches multiply by 4.33×10^{-3}
- for feet multiply by 7.48 to give gallons

$$\pi = 3.14$$

r = the radius of the well, measured as the inside diameter of the well divided by 2

h = the height of the water column in the well

Sample Calculation:

Assume: r = 2-inch ID = 0.16-foot ID

$$h = 1 \text{ foot}$$

$$v = 3.14 * (0.16 \text{ ft}/2)^2 * (1 \text{ foot}) * (7.48 \text{ gal}/\text{ft}^3)$$

$$v = 0.16 \text{ gal}$$

$$3v = 0.48 \text{ gal}$$

Therefore, as a rule of thumb, approximately 0.5 gallons of water must be purged from the well for each foot of water present in the monitoring well column.

- 2) Calculate the number of bailer volumes or the duration of pumping required to evacuate at least three well volumes.
- 3) Evacuate well water to a small bucket or vessel (<0.5 gallons) in which the pH and specific conductivity probes have been placed.

Standard Operating Procedure: Monitoring Well Sampling (Cont'd)

- 4) Purging should continue until pH, temperature, and specific conductivity values do not vary appreciably; a minimum of three well volumes have been removed; and a stabilization in the silt content of the evacuated water has been achieved. Care should be taken so that the bailer line does not come in contact with the ground.
- 5) Record final pH, temperature, and specific conductivity values in field log book.
- 6) Prior to sampling, allow an equilibration period (minimum of 10 minutes).
- 7) Decontaminate all downhole purging equipment after use in one well using applicable standard operating procedures. If a disposable bailer or tubing is used, discard after one use. Discard the line used to support the bailer between wells.
- 8) A new pair of disposable gloves shall be worn for each individual well sampling.
- 9) Samples should be collected and containerized in order of decreasing sensitivity to volatilization.

The following order should be used in collection of samples:

VOCs
semi-VOCs
Petroleum Hydrocarbons
Metals
PCBs

- 10) Minimize agitation of sample during collection to prevent possible volatilization of components present in the sample.
- 11) Care must be taken to eliminate entry of or contact with any substance other than the water sample and the interior surface of the sampling container.
- 12) Samples submitted for VOC analysis should not contain any air bubbles.
- 13) Samples submitted for dissolved metals analysis should be filtered in the field, using CONECO's filtration and pump system. Acidification of the sample should not be performed until the sample has been properly filtered.
- 14) When full, sampling containers should be securely capped, wiped off, appropriately labeled, and refrigerated until their delivery to the laboratory.
- 15) Complete the chain of custody form.

Standard Operating Procedure: Decontamination of Sampling Equipment

Discussion:

In most cases sampling equipment will either be dedicated on-Site or disposed of following use in a specific well, eliminating the need for decontamination of sampling equipment. In those cases where decontamination of sampling equipment is required, the method chosen will be one that removes Site contaminants from the equipment without interference with the chemical analyses to be performed. The general decontamination methodology for in-lab and field decontamination procedures is as follows:

Procedure:

- 1) Wash equipment with a non-phosphate detergent solution (e.g. Alconox, Liqui-nox).
- 2) Rinse thoroughly with de-ionized water.
- 3) Rinse thoroughly with methanol.
- 4) Rinse thoroughly with de-ionized water.
- 5) Repeat procedure between each sampling location.
- 6) If sampling for dissolved metals is being conducted, an additional rinse with a weak hydrochloric acid solution and de-ionized water should be performed.
- 7) If sampling for PCBs is being performed, an additional rinse with a weak hexane solution and de-ionized water should be conducted.
- 8) Care should be taken to ensure that no rinse waters runoff to environmentally sensitive area.

SOIL BORING AND MONITORING WELL LOGS

| | |
|--------------------------------------------------------------|------------------------------------------|
| PROJECT: <u>7400.B</u> | BORING NO. <u>SB-01/CMW-01</u> |
| LOCATION: <u>434 Allens Avenue, Providence, Rhode Island</u> | PAGE 1 OF <u>1</u> |
| DRILLING CO: <u>New England GeoTech</u> | DATE STARTED: <u>2/9/2016</u> |
| EQUIPMENT: <u>Geoprobe 6600 (Truck Mount)</u> | DATE FINISHED: <u>2/9/2016</u> |
| DRILLED BY: <u>Hayes Rembitas</u> | SURFACE ELEVATION: <u>Not Determined</u> |
| INSPECTED BY: <u>TSN</u> | |

| | | | | |
|---------------------------------|--------------------|----------|------------|----------|
| GROUNDWATER OBSERVATIONS | | ROD | SAMPLER | CORE BAR |
| NOT ENCOUNTERED: _____ | | Geoprobe | Macro-core | Geoprobe |
| DEPTH | STABILIZATION TIME | 1" ID | 2" ID | 2.25" OD |
| 6.5' | | 5' | 5' | 5' |

| | | | | SAMPLE DATA | | | | | |
|------------|--------------------------|-----------|------------------|----------------------------------------------------|-----------|-------------------------------------------------|-----------------------|-------|-----|
| DEPTH (ft) | SAMPLING DEPTH FROM - TO | WELL DATA | WATER TABLE (ft) | LITHOLOGY (Description of materials) | SAMPLE ID | PEN/ RECOV (in./in.) | FIELD SCREENING (ppm) | | |
| 0.0 | 0-2' | | | 0' - 1.5': Silty sand; dark gray, dry, no odor | SS-01 | 60/33 | 1.9 | | |
| | | | | 1.5' - 6.5': Silty sand; dark gray, moist, no odor | | | | | |
| | 2-4' | | | | | | SS-02 | | 1.8 |
| | | | | | | | | | |
| | 4-6' | | | | | | SS-03 | | 2.3 |
| 5.0 | | | | | | | | 60/30 | |
| | 6-8' | | | | | 6.5' - 15': Silty sand, dark gray, wet, no odor | SS-04 | | 2.9 |
| | | | | | | | | | |
| | 8-10' | | | | SS-05 | | 6.5 | | |
| 10.0 | | | | | | | | | |
| | 10-12' | | | | SS-06 | 60/15 | 6.3 | | |
| | | | | | | | | | |
| | 12-14' | | | | SS-07 | | 4.2 | | |
| | | | | | | | | | |
| | 14-15' | | | | SS-08 | | 2.7 | | |
| 15.0 | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| 20.0 | | | | | | | | | |

- Native Materials
- Bentonite
- Sand
- 2" PVC Well Screen
- 2" PVC Well Riser
- Denotes approximate groundwater elevation

GENERAL REMARKS:

Soil Samples submitted for laboratory analysis of VOCs, TPH, PCBs, and RCRA 8 Metals from the 8-10' depth interval. Headspace screening conducted using a MiniRAE Model 3000 PID, calibrated to a 100 ppm isobutylene standard.

Bottom of Boring: 12'
 Screen Interval: 2' - 12'
 Sand: 2' - 12'
 Bentonite: 0.5' - 2'

CONECO ENGINEERS & SCIENTISTS

GEOPROBE SOIL BORING & MONITORING WELL REPORT

PROJECT: 7400.B
 LOCATION: 434 Allens Avenue, Providence, Rhode Island
 DRILLING CO: New England GeoTech
 EQUIPMENT: Geoprobe 7822DT (Track Mount)
 DRILLED BY: Magnu Mendoza
 INSPECTED BY: TSN

BORING NO. SB-02/CMW-02
 PAGE 1 OF 1
 DATE STARTED: 2/9/2016
 DATE FINISHED: 2/9/2016
 SURFACE ELEVATION: Not Determined

GROUNDWATER OBSERVATIONS

NOT ENCOUNTERED: _____
 DEPTH STABILIZATION TIME
8' _____

ROD SAMPLER CORE
 TYPE: Geoprobe Macro-core Geoprobe
 SIZE ID: 1" ID 2" ID 2.25" OD
 PENETRATION: 5' 5' 5'

SAMPLE DATA

| DEPTH (ft) | SAMPLING DEPTH FROM - TO | WELL DATA | WATER TABLE (ft) | LITHOLOGY (Description of materials) | SAMPLE ID | PEN/RECOV (in./in.) | FIELD SCREENING (ppm) | | |
|------------|--------------------------|-----------|------------------|------------------------------------------------|-----------|-----------------------------------------------------|-----------------------|-------|------|
| 0.0 | 0-2' | | | 0' - 3': Gravelly sand, gray, dry, strong odor | SS-01 | 60/54 | 216 | | |
| | 2-4' | | | | | | | | |
| | 4-6' | | | | | 3' - 4': Pulverized rock, white, dry, no odor | | | |
| | | | | | | 4' - 5': Fine sand, light brown, moist, slight odor | | | |
| 5.0 | 5-8' | | | | | 5' - 8': Gravelly sand, light brown, moist, no odor | SS-03 | | 35.0 |
| | 6-8' | | | | | | | 60/33 | |
| | 8-10' | | | | | 8' - 15': Silty clay, black, wet, no odor | SS-04 | | 6.9 |
| 10.0 | 10-12' | | | | | | SS-05 | | 4.5 |
| | 12-14' | | | | SS-06 | 60/12 | 4.0 | | |
| | 14-15' | | | | SS-07 | | 5.4 | | |
| 15.0 | | | | | SS-08 | | 6.1 | | |
| 20.0 | | | | | | | | | |

- Native Materials
- Bentonite
- Sand
- 2" PVC Well Screen
- 2" PVC Well Riser
- Denotes approximate groundwater elevation

GENERAL REMARKS:

Soil Samples submitted for laboratory analysis of VOCs, TPH, PCBs, and RCRA 8 Metals from the 0-2' and 4-6' depth intervals.
 Headspace screening conducted using a MiniRAE Model 3000 PID, calibrated to a 100 ppm isobutylene standard.
 Bottom of Boring: 15'
 Screen Interval: 5' - 15'
 Sand: 5' - 15'
 Bentonite: 0.5' - 5'

PROJECT: 7400.B
 LOCATION: 434 Allens Avenue, Providence, Rhode Island
 DRILLING CO: New England GeoTech
 EQUIPMENT: Geoprobe 7822DT (Track Mount)
 DRILLED BY: Magnu Mendoza
 INSPECTED BY: TSN

BORING NO. SB-03/CMW-03
 PAGE 1 OF 1
 DATE STARTED: 2/9/2016
 DATE FINISHED: 2/9/2016
 SURFACE ELEVATION: Not Determined

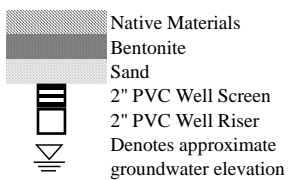
GROUNDWATER OBSERVATIONS

NOT ENCOUNTERED: _____
 DEPTH STABILIZATION TIME
 6'

ROD SAMPLER CORE
 TYPE: Geoprobe Macro-core Geoprobe
 SIZE ID: 1" ID 2" ID 2.25" OD
 PENETRATION: 5' 5' 5'

SAMPLE DATA

| DEPTH (ft) | SAMPLING DEPTH FROM - TO | WELL DATA | WATER TABLE (ft) | LITHOLOGY (Description of materials) | SAMPLE ID | PEN/RECOV (in./in.) | FIELD SCREENING (ppm) | | |
|------------|--------------------------|-----------|------------------|------------------------------------------------|-----------|---------------------------------------------------|-----------------------|-------|-------|
| 0.0 | 0-2' | | | 0' - 1': Gravelly sand, brown, dry, no odor | SS-01 | 60/42 | 5.0 | | |
| | | | | 1' - 5': Silty sand, light brown, dry, no odor | | | | | |
| | 2-4' | | | | | | SS-02 | | 4.9 |
| | | | | | | | | | |
| | 4-6' | | | | | | SS-03 | | 3.6 |
| 5.0 | | | | | | 5' - 6': Gravelly sand, black, moist, slight odor | | | |
| | | | | | | 6' - 15': Gravelly sand, black, wet, strong odor | | 60/36 | |
| | 6-8' | | | | | | SS-04 | | 13.1 |
| | | | | | | | | | |
| | 8-10' | | | | | | SS-05 | | 106.3 |
| 10.0 | | | | | | | | | |
| | 10-12' | | | | | | SS-06 | 60/30 | 168.5 |
| | | | | | | | | | |
| | 12-14' | | | | | | SS-07 | | 176.0 |
| | | | | | | | | | |
| | 14-15' | | | | SS-08 | | 101.3 | | |
| 15.0 | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| 20.0 | | | | | | | | | |



GENERAL REMARKS:
 Soil Samples submitted for laboratory analysis of VOCs, TPH, PCBs, and RCRA 8 Metals from the 12-14' depth interval. Headspace screening conducted using a MiniRAE Model 3000 PID, calibrated to a 100 ppm isobutylene standard.
 Bottom of Boring: 15'
 Screen Interval: 5' - 15'
 Sand: 5' - 15'
 Bentonite: 0.5' - 5'

CONECO ENGINEERS & SCIENTISTS

GEOPROBE SOIL BORING & MONITORING WELL REPORT

PROJECT: 7400.B
 LOCATION: 434 Allens Avenue, Providence, Rhode Island
 DRILLING CO: New England GeoTech
 EQUIPMENT: Geoprobe 7822DT (Track Mount)
 DRILLED BY: Magnu Mendoza
 INSPECTED BY: TSN

BORING NO. SB-04
 PAGE 1 OF 1
 DATE STARTED: 2/9/2016
 DATE FINISHED: 2/9/2016
 SURFACE ELEVATION: Not Determined






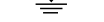
GROUNDWATER OBSERVATIONS

NOT ENCOUNTERED: _____
 DEPTH | STABILIZATION TIME
 7' | _____

| | ROD | SAMPLER | CORE BAR |
|--------------|-----------------|-------------------|-----------------|
| TYPE: | <u>Geoprobe</u> | <u>Macro-core</u> | <u>Geoprobe</u> |
| SIZE ID: | <u>1" ID</u> | <u>2" ID</u> | <u>2.25" OD</u> |
| PENETRATION: | <u>5'</u> | <u>5'</u> | <u>5'</u> |

SAMPLE DATA

| DEPTH (ft) | SAMPLING DEPTH FROM - TO | WELL DATA | WATER TABLE (ft) | LITHOLOGY (Description of materials) | SAMPLE ID | PEN/RECOV (in./in.) | FIELD SCREENING (ppm) |
|------------|--------------------------|-----------|------------------|--------------------------------------------|-----------|---------------------|-----------------------|
| 0.0 | 0-2' | N/A | | 0' - 6': Silty sand, brown, dry, no odor | SS-01 | 60/42 | 4.7 |
| | | | | | | | |
| | 2-4' | | | | SS-02 | | 6.8 |
| | | | | | | | |
| | 4-6' | | | | SS-03 | | 5.8 |
| 5.0 | | | | | | | |
| | | | | 6' - 7': Silty clay, brown, moist, no odor | | 60/56 | |
| | 6-8' | | | 7' - 15': Silty clay, brown, wet, no odor | SS-04 | | 4.5 |
| | | | | | | | |
| | 8-10' | | | | SS-05 | | 4.4 |
| 10.0 | | | | | | | |
| | 10-12' | | | | SS-06 | 60/30 | 5.1 |
| | | | | | | | |
| | 12-14' | | | | SS-07 | | 5.6 |
| | | | | | | | |
| | 14-15' | | | | SS-08 | | 7.8 |
| 15.0 | | | | | | | |
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| 20.0 | | | | | | | |

-  Native Materials
-  Bentonite
-  Sand
-  2" PVC Well Screen
-  2" PVC Well Riser
-  Denotes approximate groundwater elevation

GENERAL REMARKS:

Soil Samples submitted for laboratory analysis of VOCs, TPH, PCBs, and RCRA 8 Metals from the 6-8' depth interval. Headspace screening conducted using a MiniRAE Model 3000 PID, calibrated to a 100 ppm isobutylene standard.

Bottom of Boring: 15'

CONECO ENGINEERS & SCIENTISTS

GEOPROBE SOIL BORING & MONITORING WELL REPORT

PROJECT: 7400.B
 LOCATION: 434 Allens Avenue, Providence, Rhode Island
 DRILLING CO: New England GeoTech
 EQUIPMENT: Geoprobe 7822DT (Track Mount)
 DRILLED BY: Magnu Mendoza
 INSPECTED BY: TSN

BORING NO. SB-05/CMW-04
 PAGE 1 OF 1
 DATE STARTED: 2/9/2016
 DATE FINISHED: 2/9/2016
 SURFACE ELEVATION: Not Determined

GROUNDWATER OBSERVATIONS

NOT ENCOUNTERED: _____
 DEPTH | STABILIZATION TIME
 7' | _____

ROD | SAMPLER | CORE BAR
 Geoprobe | Macro-core | Geoprobe
 TYPE: | | |
 SIZE ID: | 1" ID | 2" ID | 2.25" OD
 PENETRATION: | 5' | 5' | 5'

SAMPLE DATA

| DEPTH (ft) | SAMPLING DEPTH FROM - TO | WELL DATA | WATER TABLE (ft) | LITHOLOGY (Description of materials) | SAMPLE ID | PEN/RECOV (in./in.) | FIELD SCREENING (ppm) |
|------------|--------------------------|-----------|------------------|---------------------------------------------|-----------|---------------------|-----------------------|
| 0.0 | 0-2' | | | 0' - 7': Gravelly sand, brown, dry, no odor | SS-01 | 60/50 | 3.6 |
| | 2-4' | | | | SS-02 | | 3.9 |
| | 4-6' | | | | SS-03 | | 2.3 |
| 5.0 | | | | | | 60/40 | |
| | 6-8' | | | | SS-04 | | 4.5 |
| | 8-10' | | | | SS-05 | | 5.6 |
| 10.0 | | | | | | | |
| | 10-12' | | | | SS-06 | 60/16 | 3.9 |
| | 12-14' | SS-07 | | 1.6 | | | |
| | 14-15' | SS-08 | | 2.3 | | | |
| 15.0 | | | | | | | |
| 20.0 | | | | | | | |

GENERAL REMARKS:
 Soil Samples submitted for laboratory analysis of VOCs, TPH, PCBs, and RCRA 8 Metals from the 6-8' depth interval. Headspace screening conducted using a MiniRAE Model 3000 PID, calibrated to a 100 ppm isobutylene standard.

Bottom of Boring: 15'
 Screen Interval: 5' - 15'
 Sand: 5' - 15'
 Bentonite: 0.5' - 5'

Native Materials
 Bentonite
 Sand
 2" PVC Well Screen
 2" PVC Well Riser
 Denotes approximate groundwater elevation

CONECO ENGINEERS & SCIENTISTS

GEOPROBE SOIL BORING & MONITORING WELL REPORT

PROJECT: 7400.B
 LOCATION: 434 Allens Avenue, Providence, Rhode Island
 DRILLING CO: New England GeoTech
 EQUIPMENT: Geoprobe 7822DT (Track Mount)
 DRILLED BY: Magnu Mendoza
 INSPECTED BY: TSN

BORING NO. SB-06/CMW-05
 PAGE 1 OF 1
 DATE STARTED: 2/9/2016
 DATE FINISHED: 2/9/2016
 SURFACE ELEVATION: Not Determined

GROUNDWATER OBSERVATIONS

NOT ENCOUNTERED: _____
 DEPTH | STABILIZATION TIME
 6' | _____

| | | | |
|--------------|----------|------------|----------|
| | ROD | SAMPLER | CORE BAR |
| TYPE: | Geoprobe | Macro-core | Geoprobe |
| SIZE ID: | 1" ID | 2" ID | 2.25" OD |
| PENETRATION: | 5' | 5' | 5' |

SAMPLE DATA

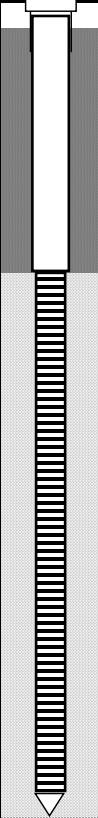

| DEPTH (ft) | SAMPLING DEPTH FROM - TO | WELL DATA | WATER TABLE (ft) | LITHOLOGY (Description of materials) | SAMPLE ID | PEN/RECOV (in./in.) | FIELD SCREENING (ppm) | | |
|------------|--------------------------|-----------|------------------|----------------------------------------|-----------|--------------------------------------------------|-----------------------|-------|-------|
| 0.0 | 0-2' | | | 0 - 6': Sand, dark brown, dry, no odor | SS-01 | 60/50 | 4.6 | | |
| | 2-4' | | | | | | | 5.0 | |
| | 4-6' | | | | | | | 4.3 | |
| 5.0 | | | | | | | | 60/30 | |
| | 6-8' | | | | | 6 - 9': Sand, dark brown, wet, strong odor | SS-04 | | 8.1 |
| | 8-10' | | | | | 9 - 10': Anthropogenic fill (wood), wet, no odor | SS-05 | | 123.6 |
| 10.0 | | | | | | 10 - 15': Gravelly sand, | | | |
| | 10-12' | | | | | | SS-06 | 60/48 | 6.8 |
| | 12-14' | | | | SS-07 | | 1.9 | | |
| | 14-15' | | | | SS-08 | | 4.1 | | |
| 15.0 | | | | | | | | | |
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| 20.0 | | | | | | | | | |

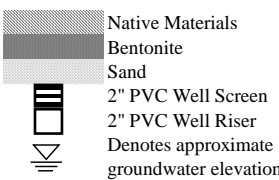
- Native Materials
- Bentonite
- Sand
- 2" PVC Well Screen
- 2" PVC Well Riser
- Denotes approximate groundwater elevation

GENERAL REMARKS:
 Soil Samples submitted for laboratory analysis of VOCs, TPH, PCBs, and RCRA 8 Metals from the 8-10' depth interval. Headspace screening conducted using a MiniRAE Model 3000 PID, calibrated to a 100 ppm isobutylene standard.
 Bottom of Boring: 15'
 Screen Interval: 5' - 15'
 Sand: 5' - 15'
 Bentonite: 0.5' - 5'

| | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PROJECT: <u>7400.B</u> LOCATION: <u>434 Allens Avenue, Providence, Rhode Island</u> DRILLING CO: <u>New England GeoTech</u> EQUIPMENT: <u>Geoprobe 7822DT (Track Mount)</u> DRILLED BY: <u>Magnu Mendoza</u> INSPECTED BY: <u>TSN</u> | BORING NO. <u>SB-07/CMW-06</u> PAGE 1 OF <u>1</u> DATE STARTED: <u>2/9/2016</u> DATE FINISHED: <u>2/9/2016</u> SURFACE ELEVATION: <u>Not Detemined</u> |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|

| | | | | | | | | | | | | | | | | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|--------------------|----|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|---------|----------|-----------------|-------------------|-----------------|----------|--------------|--------------|--------------|-----------|-----------|
| <p align="center">GROUNDWATER OBSERVATIONS</p> <p>NOT ENCOUNTERED: _____</p> <table style="width:100%;"> <tr> <td style="width:50%;">DEPTH</td> <td style="width:50%;">STABILIZATION TIME</td> </tr> <tr> <td style="text-align:center">8'</td> <td></td> </tr> </table> | DEPTH | STABILIZATION TIME | 8' | | <table style="width:100%;"> <tr> <td style="width:33%;">ROD</td> <td style="width:33%;">SAMPLER</td> <td style="width:33%;">CORE BAR</td> </tr> <tr> <td style="text-align:center"><u>Geoprobe</u></td> <td style="text-align:center"><u>Macro-core</u></td> <td style="text-align:center"><u>Geoprobe</u></td> </tr> <tr> <td style="text-align:center">SIZE ID:</td> <td style="text-align:center"><u>1" ID</u></td> <td style="text-align:center"><u>2" ID</u></td> </tr> <tr> <td style="text-align:center">PENETRATION:</td> <td style="text-align:center"><u>5'</u></td> <td style="text-align:center"><u>5'</u></td> </tr> </table> | ROD | SAMPLER | CORE BAR | <u>Geoprobe</u> | <u>Macro-core</u> | <u>Geoprobe</u> | SIZE ID: | <u>1" ID</u> | <u>2" ID</u> | PENETRATION: | <u>5'</u> | <u>5'</u> |
| DEPTH | STABILIZATION TIME | | | | | | | | | | | | | | | | |
| 8' | | | | | | | | | | | | | | | | | |
| ROD | SAMPLER | CORE BAR | | | | | | | | | | | | | | | |
| <u>Geoprobe</u> | <u>Macro-core</u> | <u>Geoprobe</u> | | | | | | | | | | | | | | | |
| SIZE ID: | <u>1" ID</u> | <u>2" ID</u> | | | | | | | | | | | | | | | |
| PENETRATION: | <u>5'</u> | <u>5'</u> | | | | | | | | | | | | | | | |

| | | | | SAMPLE DATA | | | | | |
|---------------|--------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------|--------------|-----------------------------------------------|-----------------------------|-------|-----|
| DEPTH (ft) | SAMPLING DEPTH FROM - TO | WELL DATA | WATER TABLE (ft) | LITHOLOGY (Description of materials) | SAMPLE ID | PEN/ RECOV (in./in.) | FIELD SCREENING (ppm) | | |
| 0.0 | 0-2' |  |  | 0 - 3': Fine sand, light brown, dry, no odor | SS-01 | 60/42 | 15.3 | | |
| | 2-4' | | | 3 - 8': Gravelly sand, light brown, moist, strong odor | | SS-02 | | 126.3 | |
| | 4-6' | | | | | SS-03 | | 93.9 | |
| 5.0 | | | | | | | | 60/18 | |
| | 6-8' | | | | | | SS-04 | | 9.3 |
| | 8-10' | | | | | 8 - 15': Fine sand, light brown, wet, no odor | SS-05 | | 5.1 |
| 10.0 | 10-12' | | | | | | SS-06 | 60/12 | 5.2 |
| | 12-14' | | | | | | SS-07 | | 4.2 |
| | 14-15' | | | | SS-08 | | 4.4 | | |
| 15.0 | | | | | | | | | |
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| | | | | | | | | | |
| 20.0 | | | | | | | | | |



GENERAL REMARKS:
 Soil Samples submitted for laboratory analysis of VOCs, TPH, PCBs, and RCRA 8 Metals from the 2-4' depth interval. Headspace screening conducted using a MiniRAE Model 3000 PID, calibrated to a 100 ppm isobutylene standard.
 Bottom of Boring: 15'
 Screen Interval: 5' - 15'
 Sand: 5' - 15'
 Bentonite: 0.5' - 5'

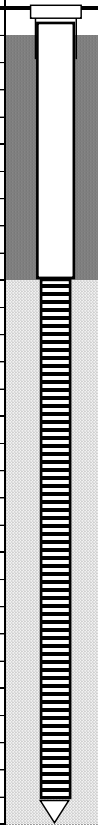

PROJECT: 7400.B
 LOCATION: 434 Allens Avenue, Providence, Rhode Island
 DRILLING CO: New England GeoTech
 EQUIPMENT: Geoprobe 7822DT (Track Mount)
 DRILLED BY: Magnu Mendoza
 INSPECTED BY: TSN

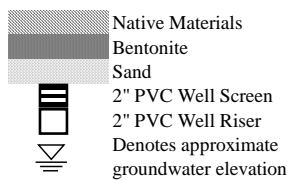
BORING NO. SB-08/CMW-07
 PAGE 1 OF 1
 DATE STARTED: 2/9/2016
 DATE FINISHED: 2/9/2016
 SURFACE ELEVATION: Not Detemined

GROUNDWATER OBSERVATIONS

NOT ENCOUNTERED: _____
 DEPTH | STABILIZATION TIME
 8.5' | _____

| | ROD | SAMPLER | CORE BAR |
|--------------|----------|------------|----------|
| TYPE: | Geoprobe | Macro-core | Geoprobe |
| SIZE ID: | 1" ID | 2" ID | 2.25" OD |
| PENETRATION: | 5' | 5' | 5' |

| | | | | SAMPLE DATA | | | | | |
|------------|--------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------|------------------------------------------------|--------------------------------------------|-----------------------|-------|-----|
| DEPTH (ft) | SAMPLING DEPTH FROM - TO | WELL DATA | WATER TABLE (ft) | LITHOLOGY (Description of materials) | SAMPLE ID | PEN/RECOV (in./in.) | FIELD SCREENING (ppm) | | |
| 0.0 | 0-2' |  |  | 0- 2': Sand, brown, dry, no odor | SS-01 | 60/42 | 7.3 | | |
| | | | | 2-4' | 2 - 8.5': Gravelly sand, brown, moist, no odor | SS-02 | | 5.7 | |
| | | | | 4-6' | | SS-03 | | 6.1 | |
| 5.0 | | | | | | | | 60/30 | |
| | | | | 6-8' | | | SS-04 | | 4.6 |
| | | | | 8-10' | | 8.5 - 15': Silty sand, brown, wet, no odor | SS-05 | | 4.3 |
| 10.0 | | | | | | | | | |
| | | | | 10-12' | | | SS-06 | 60/35 | 4.1 |
| | | | | 12-14' | | | SS-07 | | 6.8 |
| | | | | 14-15' | | | SS-08 | | 4.2 |
| 15.0 | | | | | | | | | |
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| | | | | | | | | | |
| | | | | | | | | | |
| 20.0 | | | | | | | | | |



GENERAL REMARKS:
 Soil Samples submitted for laboratory analysis of VOCs, TPH, PCBs, and RCRA 8 Metals from the 8-10' depth interval. Headspace screening conducted using a MiniRAE Model 3000 PID, calibrated to a 100 ppm isobutylene standard.

Bottom of Boring: 15'
 Screen Interval: 5' - 15'
 Sand: 5' - 15'
 Bentonite: 0.5' - 5'

CONECO ENGINEERS & SCIENTISTS

GEOPROBE SOIL BORING & MONITORING WELL REPORT

PROJECT: 7400.B
 LOCATION: 434 Allens Avenue, Providence, Rhode Island
 DRILLING CO: New England GeoTech
 EQUIPMENT: Geoprobe 7822DT (Track Mount)
 DRILLED BY: Magnu Mendoza
 INSPECTED BY: TSN

BORING NO. SB-09
 PAGE 1 OF 1
 DATE STARTED: 2/9/2016
 DATE FINISHED: 2/9/2016
 SURFACE ELEVATION: Not Detemined







GROUNDWATER OBSERVATIONS

NOT ENCOUNTERED: X
 DEPTH _____ STABILIZATION TIME _____

ROD: Geoprobe SAMPLER: Macro-core CORE BAR: Geoprobe
 TYPE: _____ SIZE ID: 1" ID 2" ID 2.25" OD
 PENETRATION: 5' 5' 5'

SAMPLE DATA

| DEPTH (ft) | SAMPLING DEPTH FROM - TO | WELL DATA | WATER TABLE (ft) | LITHOLOGY (Description of materials) | SAMPLE ID | PEN/RECOV (in./in.) | FIELD SCREENING (ppm) | |
|------------|--------------------------|-----------|------------------|----------------------------------------------------|-----------|---------------------|-----------------------|------|
| 0.0 | 0-2' | N/A | | 0 - 7.5': Gravelly sand, light brown, dry, no odor | SS-01 | 60/40 | 20.3 | |
| | | | | | | | | |
| | 2-4' | | | | | SS-02 | | 7.9 |
| | | | | | | | | |
| | 4-6' | | | | | SS-03 | | 18.5 |
| 5.0 | | | | | | | 60/20 | |
| | 6-7.5' | | | | | SS-04 | | 8.9 |
| | | | | | | | | |
| 10.0 | | | | | | | | |
| | | | | | | | | |
| | 14-15' | | | | SS-08 | | 4.2 | |
| 15.0 | | | | | | | | |
| | | | | | | | | |
| 20.0 | | | | | | | | |

-  Native Materials
-  Bentonite
-  Sand
-  2" PVC Well Screen
-  2" PVC Well Riser
-  Denotes approximate groundwater elevation

GENERAL REMARKS:

Soil Samples submitted for laboratory analysis of VOCs, TPH, PCBs, and RCRA 8 Metals from the 0-2' and 4-6' depth intervals.
 Headspace screening conducted using a MiniRAE Model 3000 PID, calibrated to a 100 ppm isobutylene standard.

Bottom of Boring: 7.5'

CONECO ENGINEERS & SCIENTISTS

GEOPROBE SOIL BORING & MONITORING WELL REPORT

PROJECT: 7400.B
 LOCATION: 434 Allens Avenue, Providence, Rhode Island
 DRILLING CO: New England GeoTech
 EQUIPMENT: Geoprobe 6600 (Truck Mount)
 DRILLED BY: Hayes Rembitas
 INSPECTED BY: TSN

BORING NO. SB-10
 PAGE 1 OF 1
 DATE STARTED: 2/9/2016
 DATE FINISHED: 2/9/2016
 SURFACE ELEVATION: Not Determined







GROUNDWATER OBSERVATIONS

NOT ENCOUNTERED: _____
 DEPTH | STABILIZATION TIME
 9' | _____

ROD | SAMPLER | CORE BAR
 Geoprobe | Macro-core | Geoprobe
 TYPE: | | |
 SIZE ID: | 1" ID | 2" ID | 2.25" OD
 PENETRATION: | 5' | 5' | 5'

SAMPLE DATA

| DEPTH (ft) | SAMPLING DEPTH FROM - TO | WELL DATA | WATER TABLE (ft) | LITHOLOGY (Description of materials) | SAMPLE ID | PEN/RECOV (in./in.) | FIELD SCREENING (ppm) | |
|------------|--------------------------|-----------|------------------|------------------------------------------------------|-----------|---------------------|-----------------------|-----|
| 0.0 | 0-2' | | | 0' - 9': Gravelly sand, brown, dry, slight odor | SS-01 | 60/50 | 4.5 | |
| | | | | | | | | |
| | 2-4' | | | | | SS-02 | | 3.9 |
| | | | | | | | | |
| | 4-6' | | | | | SS-03 | | 4.1 |
| 5.0 | | | | | | | 60/45 | |
| | 6-8' | | | | | SS-04 | | 4.3 |
| | | | | | | | | |
| | 8-10' | | | 9' - 15': Gravelly sand, dark brown, wet, light odor | SS-05 | | 4.0 | |
| | | | | | | | | |
| 10.0 | 10-12' | | | | | SS-06 | 60/36 | 4.4 |
| | | | | | | | | |
| | 12-14' | | | | | SS-07 | | 4.5 |
| | | | | | | | | |
| | 14-15' | | | | | SS-08 | | 5.9 |
| 15.0 | | | | | | | | |
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| 20.0 | | | | | | | | |

-  Native Materials
-  Bentonite
-  Sand
-  2" PVC Well Screen
-  2" PVC Well Riser
-  Denotes approximate groundwater elevation

GENERAL REMARKS:
 Soil Samples submitted for laboratory analysis of VOCs, TPH, PCBs, and RCRA 8 Metals from the 8-10' depth interval. Headspace screening conducted using a MiniRAE Model 3000 PID, calibrated to a 100 ppm isobutylene standard.
 Bottom of Boring: 15'

CONECO ENGINEERS & SCIENTISTS

GEOPROBE SOIL BORING & MONITORING WELL REPORT

PROJECT: 7400.B
 LOCATION: 434 Allens Avenue, Providence, Rhode Island
 DRILLING CO: New England GeoTech
 EQUIPMENT: Geoprobe 6600 (Truck Mount)
 DRILLED BY: Hayes Rembitas
 INSPECTED BY: TSN

BORING NO. SB-11
 PAGE 1 OF 1
 DATE STARTED: 2/9/2016
 DATE FINISHED: 2/9/2016
 SURFACE ELEVATION: Not Determined

GROUNDWATER OBSERVATIONS

NOT ENCOUNTERED: _____
 DEPTH | STABILIZATION TIME
 6' | _____


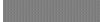




| | | | |
|--------------|----------|------------|----------|
| | ROD | SAMPLER | CORE BAR |
| TYPE: | Geoprobe | Macro-core | Geoprobe |
| SIZE ID: | 1" ID | 2" ID | 2.25" OD |
| PENETRATION: | 5' | 5' | 5' |

SAMPLE DATA

| DEPTH (ft) | SAMPLING DEPTH FROM - TO | WELL DATA | WATER TABLE (ft) | LITHOLOGY (Description of materials) | SAMPLE ID | PEN/RECOV (in./in.) | FIELD SCREENING (ppm) |
|------------|--------------------------|-----------|------------------|------------------------------------------------|-----------|---------------------|-----------------------|
| 0.0 | 0-2' | | | 0 - 5': Silty sand, light brown, dry, no odor | SS-01 | 60/48 | 3.7 |
| | 2-4' | | | | SS-02 | | 6.0 |
| | 4-6' | | | | SS-03 | | 4.1 |
| 5.0 | | | | 5 - 8': Silty sand, gray, moist, no odor | | 60/42 | |
| | 6-8' | | ▽ | | SS-04 | | 3.9 |
| | 8-10' | | | 8 - 10': Silty clay, gray, moist, no odor | SS-05 | | 4.6 |
| 10.0 | | | | 10 - 15': Silty sand, dark brown, wet, no odor | | | |
| | 10-12' | | | | SS-06 | 60/48 | 5.1 |
| | 12-14' | | | | SS-07 | | 7.3 |
| | 14-15' | | | | SS-08 | | 2.1 |
| 15.0 | | | | | | | |
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| 20.0 | | | | | | | |

GENERAL REMARKS:
 Soil Samples submitted for laboratory analysis of VOCs, TPH, PCBs, and RCRA 8 Metals from the 4-6' depth interval. Headspace screening conducted using a MiniRAE Model 3000 PID, calibrated to a 100 ppm isobutylene standard.

Bottom of Boring: 15'

-  Native Materials
-  Bentonite
-  Sand
-  2" PVC Well Screen
-  2" PVC Well Riser
-  Denotes approximate groundwater elevation

GROUNDWATER SAMPLING FIELD SHEETS

| CONECO ENGINEERS & SCIENTISTS | | GROUNDWATER SAMPLING RECORD | | | | | | | | | | | | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|-----------------------------|--------------------------|--------------------------------------------------------------|------------------------|--------------------------------------------------------------|---------------------|--------------------------------------------------------------|------------------|--------------------------------------------------------------|-----------------------|---------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PROJECT: <u>7400.B</u> | WELL ID: <u>CMW-01</u> | | | | | | | | | | | | | | |
| LOCATION: <u>434 Allens Avenue, Providence, RI</u> | DATE: <u>2/12/2016</u> | | | | | | | | | | | | | | |
| SAMPLED BY: <u>ZEB</u> | TIME: <u>8:54</u> | | | | | | | | | | | | | | |
| WELL INTEGRITY <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;"></td> <td style="text-align: center;">YES NO</td> </tr> <tr> <td>Protective casing secure</td> <td style="text-align: center;"><input checked="" type="checkbox"/> <input type="checkbox"/></td> </tr> <tr> <td>Concrete collar intact</td> <td style="text-align: center;"><input checked="" type="checkbox"/> <input type="checkbox"/></td> </tr> <tr> <td>PVC stick-up intact</td> <td style="text-align: center;"><input checked="" type="checkbox"/> <input type="checkbox"/></td> </tr> <tr> <td>Well cap present</td> <td style="text-align: center;"><input checked="" type="checkbox"/> <input type="checkbox"/></td> </tr> <tr> <td>Security lock present</td> <td style="text-align: center;"><input type="checkbox"/> <input type="checkbox"/></td> </tr> </table> PID SCREENING (ppmV) (if required) Background <u>NA</u> Well mouth _____ DEPTH TO NAPL (ft) <u>NA</u> THICKNESS OF NAPL (ft) <u>NA</u> | | YES NO | Protective casing secure | <input checked="" type="checkbox"/> <input type="checkbox"/> | Concrete collar intact | <input checked="" type="checkbox"/> <input type="checkbox"/> | PVC stick-up intact | <input checked="" type="checkbox"/> <input type="checkbox"/> | Well cap present | <input checked="" type="checkbox"/> <input type="checkbox"/> | Security lock present | <input type="checkbox"/> <input type="checkbox"/> | PROTECTIVE CASING STICK-UP FROM GROUND (ft) _____ RISER STICK-UP FROM GROUND (ft) _____ WELL DIAMETER <input checked="" type="checkbox"/> 2 inch <input type="checkbox"/> 4 inch <input type="checkbox"/> 6 inch <input type="checkbox"/> _____ WELL MATERIAL <input checked="" type="checkbox"/> PVC <input type="checkbox"/> SS <input type="checkbox"/> _____ | WELL DEPTH 14.66 feet WATER DEPTH 11.05 feet DEPTH OF PUMP INTAKE _____ WATER COLUMN HEIGHT <u>3.61</u> ft x VOLUME OF WATER IN WELL VOLUME OF WATER PURGED <u>0.58</u> gallons <u>1.73</u> gallons <small>Note: Volume = (r^2)h(0.163)</small> | REFERENCE POINT <input type="checkbox"/> Top of riser <input type="checkbox"/> Top of casing <input checked="" type="checkbox"/> Pen mark <input type="checkbox"/> North <input type="checkbox"/> <input checked="" type="checkbox"/> 16 gal/ft (2 in) <input type="checkbox"/> 65 gal/ft (4 in) <input type="checkbox"/> 1.5 gal/ft (6 in) <input type="checkbox"/> _ gal/ft (_ in) |
| | YES NO | | | | | | | | | | | | | | |
| Protective casing secure | <input checked="" type="checkbox"/> <input type="checkbox"/> | | | | | | | | | | | | | | |
| Concrete collar intact | <input checked="" type="checkbox"/> <input type="checkbox"/> | | | | | | | | | | | | | | |
| PVC stick-up intact | <input checked="" type="checkbox"/> <input type="checkbox"/> | | | | | | | | | | | | | | |
| Well cap present | <input checked="" type="checkbox"/> <input type="checkbox"/> | | | | | | | | | | | | | | |
| Security lock present | <input type="checkbox"/> <input type="checkbox"/> | | | | | | | | | | | | | | |

FIELD WATER QUALITY MEASUREMENTS

| | | | |
|-------------------------|-------|--|--|
| Time | 10:25 | | |
| Volume Purged (gallons) | 1.73 | | |
| Temperature (°C) | 10.1 | | |
| Conductivity (µmhos/cm) | 690 | | |
| pH (Std. units) | 7.18 | | |
| Flow (ml/min) | NA | | |
| Depth to water (ft) | NA | | |

| SAMPLER TYPE | Purge | Sample | DESCRIPTION OF SAMPLING EQUIPMENT (MODEL AND S/N) |
|------------------|-------------------------------------|-------------------------------------|---------------------------------------------------|
| Bailer | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | _____ |
| Peristaltic Pump | <input type="checkbox"/> | <input type="checkbox"/> | _____ |
| Submersible Pump | <input type="checkbox"/> | <input type="checkbox"/> | _____ |
| Bladder pump | <input type="checkbox"/> | <input type="checkbox"/> | _____ |
| Other: _____ | <input type="checkbox"/> | <input type="checkbox"/> | _____ |

| Sample Identification | Filtered (Y/N) | Preservation | Volume/Containers | Time Collected | Date |
|-----------------------|----------------|------------------|--------------------------|----------------|-----------|
| CMW-01 | No | Ice | (2) 1-L amber glass jars | 10:25 | 2/12/2016 |
| CMW-01 | No | HCL | (3) 40-mL vials | 10:25 | 2/12/2016 |
| CMW-01 | Yes | HNO ₃ | (1) 250-mL plastic jar | 10:25 | 2/12/2016 |
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| CONECO ENGINEERS & SCIENTISTS | | GROUNDWATER SAMPLING RECORD | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PROJECT: <u>7400.B</u> | WELL ID: <u>CMW-02</u> | | |
| LOCATION: <u>434 Allens Avenue, Providence, RI</u> | DATE: <u>2/12/2016</u> | | |
| SAMPLED BY: <u>ZEB</u> | TIME: <u>8:50</u> | | |
| WELL INTEGRITY <table style="width:100%; border: none;"> <tr> <td style="width:50%; border: none;"> YES NO Protective casing secure <input checked="" type="checkbox"/> <input type="checkbox"/> Concrete collar intact <input checked="" type="checkbox"/> <input type="checkbox"/> PVC stick-up intact <input checked="" type="checkbox"/> <input type="checkbox"/> Well cap present <input checked="" type="checkbox"/> <input type="checkbox"/> Security lock present <input type="checkbox"/> <input type="checkbox"/> PID SCREENING (ppmV) (if required) Background <u>NA</u> Well mouth _____ DEPTH TO NAPL (ft) <u>NA</u> THICKNESS OF NAPL (ft) <u>NA</u> </td> <td style="width:50%; border: none;"> PROTECTIVE CASING STICK-UP FROM GROUND (ft) _____ RISER STICK-UP FROM GROUND (ft) _____ WELL DIAMETER <input checked="" type="checkbox"/> 2 inch <input type="checkbox"/> 4 inch <input type="checkbox"/> 6 inch WELL MATERIAL <input checked="" type="checkbox"/> PVC <input type="checkbox"/> SS </td> </tr> </table> | YES NO Protective casing secure <input checked="" type="checkbox"/> <input type="checkbox"/> Concrete collar intact <input checked="" type="checkbox"/> <input type="checkbox"/> PVC stick-up intact <input checked="" type="checkbox"/> <input type="checkbox"/> Well cap present <input checked="" type="checkbox"/> <input type="checkbox"/> Security lock present <input type="checkbox"/> <input type="checkbox"/> PID SCREENING (ppmV) (if required) Background <u>NA</u> Well mouth _____ DEPTH TO NAPL (ft) <u>NA</u> THICKNESS OF NAPL (ft) <u>NA</u> | PROTECTIVE CASING STICK-UP FROM GROUND (ft) _____ RISER STICK-UP FROM GROUND (ft) _____ WELL DIAMETER <input checked="" type="checkbox"/> 2 inch <input type="checkbox"/> 4 inch <input type="checkbox"/> 6 inch WELL MATERIAL <input checked="" type="checkbox"/> PVC <input type="checkbox"/> SS | WELL DEPTH 17.28 feet WATER DEPTH 10.89 feet DEPTH OF PUMP INTAKE _____ WATER COLUMN HEIGHT <u>6.39</u> ft x VOLUME OF WATER IN WELL <u>1.02</u> gallons VOLUME OF WATER PURGED <u>3.07</u> gallons Note: Volume = (r ²)h(0.163) |
| YES NO Protective casing secure <input checked="" type="checkbox"/> <input type="checkbox"/> Concrete collar intact <input checked="" type="checkbox"/> <input type="checkbox"/> PVC stick-up intact <input checked="" type="checkbox"/> <input type="checkbox"/> Well cap present <input checked="" type="checkbox"/> <input type="checkbox"/> Security lock present <input type="checkbox"/> <input type="checkbox"/> PID SCREENING (ppmV) (if required) Background <u>NA</u> Well mouth _____ DEPTH TO NAPL (ft) <u>NA</u> THICKNESS OF NAPL (ft) <u>NA</u> | PROTECTIVE CASING STICK-UP FROM GROUND (ft) _____ RISER STICK-UP FROM GROUND (ft) _____ WELL DIAMETER <input checked="" type="checkbox"/> 2 inch <input type="checkbox"/> 4 inch <input type="checkbox"/> 6 inch WELL MATERIAL <input checked="" type="checkbox"/> PVC <input type="checkbox"/> SS | | |
| REFERENCE POINT <input type="checkbox"/> Top of riser <input type="checkbox"/> Top of casing <input checked="" type="checkbox"/> Pen mark <input type="checkbox"/> North <input type="checkbox"/> <input checked="" type="checkbox"/> 16 gal/ft (2 in) <input type="checkbox"/> 65 gal/ft (4 in) <input type="checkbox"/> 1.5 gal/ft (6 in) <input type="checkbox"/> _ gal/ft (_ in) | | | |

FIELD WATER QUALITY MEASUREMENTS

| | | | | | |
|-------------------------|-------|--|--|--|--|
| Time | 10:21 | | | | |
| Volume Purged (gallons) | 3.07 | | | | |
| Temperature (°C) | 11.5 | | | | |
| Conductivity (µs/cm) | 1,103 | | | | |
| pH (Std. units) | 7.3 | | | | |
| Flow (ml/min) | NA | | | | |
| Depth to water (ft) | NA | | | | |

| SAMPLER TYPE | Purge | Sample | DESCRIPTION OF SAMPLING EQUIPMENT (MODEL AND S/N) |
|------------------|-------------------------------------|-------------------------------------|---------------------------------------------------|
| Bailer | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | _____ |
| Peristaltic Pump | <input type="checkbox"/> | <input type="checkbox"/> | _____ |
| Submersible Pump | <input type="checkbox"/> | <input type="checkbox"/> | _____ |
| Bladder pump | <input type="checkbox"/> | <input type="checkbox"/> | _____ |
| Other: _____ | <input type="checkbox"/> | <input type="checkbox"/> | _____ |

| Sample Identification | Filtered (Y/N) | Preservation | Volume/Containers | Time Collected | Date |
|-----------------------|----------------|------------------|--------------------------|----------------|-----------|
| CMW-02 | No | Ice | (2) 1-L amber glass jars | 10:12 | 2/12/2016 |
| CMW-02 | No | HCL | (3) 40-mL vials | 10:12 | 2/12/2016 |
| CMW-02 | Yes | HNO ₃ | (1) 250-mL plastic jar | 10:12 | 2/12/2016 |
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| CONECO ENGINEERS & SCIENTISTS | GROUNDWATER SAMPLING RECORD |
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|----------------------------------------------------|------------------------|
| PROJECT: <u>7400.B</u> | WELL ID: <u>CMW-03</u> |
| LOCATION: <u>434 Allens Avenue, Providence, RI</u> | DATE: <u>2/12/2016</u> |
| SAMPLED BY: <u>ZEB</u> | TIME: <u>8:45</u> |

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| WELL INTEGRITY YES NO Protective casing secure <input checked="" type="checkbox"/> <input type="checkbox"/> Concrete collar intact <input checked="" type="checkbox"/> <input type="checkbox"/> PVC stick-up intact <input checked="" type="checkbox"/> <input type="checkbox"/> Well cap present <input checked="" type="checkbox"/> <input type="checkbox"/> Security lock present <input type="checkbox"/> <input type="checkbox"/> PID SCREENING (ppmV) (if required) Background <u>NA</u> Well mouth _____ DEPTH TO NAPL (ft) <u>NA</u> THICKNESS OF NAPL (ft) <u>NA</u> | PROTECTIVE CASING STICK-UP FROM GROUND (ft) _____ RISER STICK-UP FROM GROUND (ft) _____ WELL DIAMETER <input checked="" type="checkbox"/> 2 inch <input type="checkbox"/> 4 inch <input type="checkbox"/> 6 inch <input type="checkbox"/> _____ WELL MATERIAL <input checked="" type="checkbox"/> PVC <input type="checkbox"/> SS <input type="checkbox"/> _____ | WELL DEPTH 16.86 feet WATER DEPTH 9.41 feet DEPTH OF PUMP INTAKE _____ WATER COLUMN HEIGHT <u>7.45</u> ft x VOLUME OF WATER IN WELL <u>1.19</u> gallons VOLUME OF WATER PURGED <u>3.58</u> gallons Note: Volume = (r^2)h(0.163) | REFERENCE POINT <input type="checkbox"/> Top of riser <input type="checkbox"/> Top of casing <input checked="" type="checkbox"/> Pen mark <input type="checkbox"/> North <input type="checkbox"/> <input checked="" type="checkbox"/> .16 gal/ft (2 in) <input type="checkbox"/> .65 gal/ft (4 in) <input type="checkbox"/> 1.5 gal/ft (6 in) <input type="checkbox"/> _ gal/ft (_ in) |
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FIELD WATER QUALITY MEASUREMENTS

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|-------------------------|-------|--|--|--|--|
| Time | 10:00 | | | | |
| Volume Purged (gallons) | 3.58 | | | | |
| Temperature (°C) | 10.5 | | | | |
| Conductivity (µs/cm) | 1,200 | | | | |
| pH (Std. units) | 7.33 | | | | |
| Flow (ml/min) | NA | | | | |
| Depth to water (ft) | NA | | | | |

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| SAMPLER TYPE | DESCRIPTION OF SAMPLING EQUIPMENT (MODEL AND S/N) |
| Purge Sample Bailer <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> Peristaltic Pump <input type="checkbox"/> <input type="checkbox"/> Submersible Pump <input type="checkbox"/> <input type="checkbox"/> Bladder pump <input type="checkbox"/> <input type="checkbox"/> Other: _____ <input type="checkbox"/> <input type="checkbox"/> | _____ _____ _____ |

| Sample Identification | Filtered (Y/N) | Preservation | Volume/Containers | Time Collected | Date |
|-----------------------|----------------|------------------|--------------------------|----------------|-----------|
| CMW-03 | No | Ice | (2) 1-L amber glass jars | 10:00 | 2/12/2016 |
| CMW-03 | No | HCL | (3) 40-mL vials | 10:00 | 2/12/2016 |
| CMW-03 | Yes | HNO ₃ | (1) 250-mL plastic jar | 10:00 | 2/12/2016 |
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| CONECO ENGINEERS & SCIENTISTS | | GROUNDWATER SAMPLING RECORD | |
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| PROJECT: <u>7400.B</u> | WELL ID: <u>CMW-04</u> | | |
| LOCATION: <u>434 Allens Avenue, Providence, RI</u> | DATE: <u>2/12/2016</u> | | |
| SAMPLED BY: <u>ZEB</u> | TIME: <u>8:25</u> | | |
| WELL INTEGRITY <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;"> YES NO Protective casing secure <input checked="" type="checkbox"/> <input type="checkbox"/> Concrete collar intact <input checked="" type="checkbox"/> <input type="checkbox"/> PVC stick-up intact <input checked="" type="checkbox"/> <input type="checkbox"/> Well cap present <input checked="" type="checkbox"/> <input type="checkbox"/> Security lock present <input type="checkbox"/> <input type="checkbox"/> PID SCREENING (ppmV) (if required) Background <u>NA</u> Well mouth _____ DEPTH TO NAPL (ft) <u>NA</u> THICKNESS OF NAPL (ft) <u>NA</u> </td> <td style="width: 50%; border: none;"> PROTECTIVE CASING STICK-UP FROM GROUND (ft) _____ RISER STICK-UP FROM GROUND (ft) _____ WELL DIAMETER <input checked="" type="checkbox"/> 2 inch <input type="checkbox"/> 4 inch <input type="checkbox"/> 6 inch <input type="checkbox"/> _____ WELL MATERIAL <input checked="" type="checkbox"/> PVC <input type="checkbox"/> SS <input type="checkbox"/> _____ </td> </tr> </table> | YES NO Protective casing secure <input checked="" type="checkbox"/> <input type="checkbox"/> Concrete collar intact <input checked="" type="checkbox"/> <input type="checkbox"/> PVC stick-up intact <input checked="" type="checkbox"/> <input type="checkbox"/> Well cap present <input checked="" type="checkbox"/> <input type="checkbox"/> Security lock present <input type="checkbox"/> <input type="checkbox"/> PID SCREENING (ppmV) (if required) Background <u>NA</u> Well mouth _____ DEPTH TO NAPL (ft) <u>NA</u> THICKNESS OF NAPL (ft) <u>NA</u> | PROTECTIVE CASING STICK-UP FROM GROUND (ft) _____ RISER STICK-UP FROM GROUND (ft) _____ WELL DIAMETER <input checked="" type="checkbox"/> 2 inch <input type="checkbox"/> 4 inch <input type="checkbox"/> 6 inch <input type="checkbox"/> _____ WELL MATERIAL <input checked="" type="checkbox"/> PVC <input type="checkbox"/> SS <input type="checkbox"/> _____ | WELL DEPTH 16.73 feet WATER DEPTH 8.65 feet DEPTH OF PUMP INTAKE _____ WATER COLUMN HEIGHT <u>8.08</u> ft x VOLUME OF WATER IN WELL <u>1.29</u> gallons VOLUME OF WATER PURGED <u>3.9</u> gallons Note: Volume = (r ²)h(0.163) |
| YES NO Protective casing secure <input checked="" type="checkbox"/> <input type="checkbox"/> Concrete collar intact <input checked="" type="checkbox"/> <input type="checkbox"/> PVC stick-up intact <input checked="" type="checkbox"/> <input type="checkbox"/> Well cap present <input checked="" type="checkbox"/> <input type="checkbox"/> Security lock present <input type="checkbox"/> <input type="checkbox"/> PID SCREENING (ppmV) (if required) Background <u>NA</u> Well mouth _____ DEPTH TO NAPL (ft) <u>NA</u> THICKNESS OF NAPL (ft) <u>NA</u> | PROTECTIVE CASING STICK-UP FROM GROUND (ft) _____ RISER STICK-UP FROM GROUND (ft) _____ WELL DIAMETER <input checked="" type="checkbox"/> 2 inch <input type="checkbox"/> 4 inch <input type="checkbox"/> 6 inch <input type="checkbox"/> _____ WELL MATERIAL <input checked="" type="checkbox"/> PVC <input type="checkbox"/> SS <input type="checkbox"/> _____ | | |
| REFERENCE POINT <input type="checkbox"/> Top of riser <input type="checkbox"/> Top of casing <input checked="" type="checkbox"/> Pen mark <input type="checkbox"/> North <input type="checkbox"/> <input checked="" type="checkbox"/> 16 gal/ft (2 in) <input type="checkbox"/> 65 gal/ft (4 in) <input type="checkbox"/> 1.5 gal/ft (6 in) <input type="checkbox"/> _ gal/ft (_ in) | | | |

FIELD WATER QUALITY MEASUREMENTS

| | | | |
|-------------------------|-------|--|--|
| Time | 9:45 | | |
| Volume Purged (gallons) | 3.9 | | |
| Temperature (°C) | 9.7 | | |
| Conductivity (µs/cm) | 1,606 | | |
| pH (Std. units) | 7.46 | | |
| Flow (ml/min) | NA | | |
| Depth to water (ft) | NA | | |

| SAMPLER TYPE | Purge | Sample | DESCRIPTION OF SAMPLING EQUIPMENT (MODEL AND S/N) |
|------------------|-------------------------------------|-------------------------------------|---------------------------------------------------|
| Bailer | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | _____ |
| Peristaltic Pump | <input type="checkbox"/> | <input type="checkbox"/> | _____ |
| Submersible Pump | <input type="checkbox"/> | <input type="checkbox"/> | _____ |
| Bladder pump | <input type="checkbox"/> | <input type="checkbox"/> | _____ |
| Other: _____ | <input type="checkbox"/> | <input type="checkbox"/> | _____ |

| Sample Identification | Filtered (Y/N) | Preservation | Volume/Containers | Time Collected | Date |
|-----------------------|----------------|------------------|--------------------------|----------------|-----------|
| CMW-04 | No | Ice | (2) 1-L amber glass jars | 9:45 | 2/12/2016 |
| CMW-04 | No | HCL | (3) 40-mL vials | 9:45 | 2/12/2016 |
| CMW-04 | Yes | HNO ₃ | (1) 250-mL plastic jar | 9:45 | 2/12/2016 |
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| CONECO ENGINEERS & SCIENTISTS | | GROUNDWATER SAMPLING RECORD | | | | | | | | | | | | | |
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| PROJECT: <u>7400.B</u> | WELL ID: <u>CMW-05</u> | | | | | | | | | | | | | | |
| LOCATION: <u>434 Allens Avenue, Providence, RI</u> | DATE: <u>2/12/2016</u> | | | | | | | | | | | | | | |
| SAMPLED BY: <u>TSN</u> | TIME: <u>9:10</u> | | | | | | | | | | | | | | |
| WELL INTEGRITY <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;"></td> <td style="text-align: center;">YES NO</td> </tr> <tr> <td>Protective casing secure</td> <td style="text-align: center;"><input checked="" type="checkbox"/> <input type="checkbox"/></td> </tr> <tr> <td>Concrete collar intact</td> <td style="text-align: center;"><input checked="" type="checkbox"/> <input type="checkbox"/></td> </tr> <tr> <td>PVC stick-up intact</td> <td style="text-align: center;"><input checked="" type="checkbox"/> <input type="checkbox"/></td> </tr> <tr> <td>Well cap present</td> <td style="text-align: center;"><input checked="" type="checkbox"/> <input type="checkbox"/></td> </tr> <tr> <td>Security lock present</td> <td style="text-align: center;"><input type="checkbox"/> <input type="checkbox"/></td> </tr> </table> PID SCREENING (ppmV) (if required) Background <u>NA</u> Well mouth _____ DEPTH TO NAPL (ft) <u>NA</u> THICKNESS OF NAPL (ft) <u>NA</u> | | YES NO | Protective casing secure | <input checked="" type="checkbox"/> <input type="checkbox"/> | Concrete collar intact | <input checked="" type="checkbox"/> <input type="checkbox"/> | PVC stick-up intact | <input checked="" type="checkbox"/> <input type="checkbox"/> | Well cap present | <input checked="" type="checkbox"/> <input type="checkbox"/> | Security lock present | <input type="checkbox"/> <input type="checkbox"/> | PROTECTIVE CASING STICK-UP FROM GROUND (ft) _____ RISER STICK-UP FROM GROUND (ft) _____ WELL DIAMETER <input checked="" type="checkbox"/> 2 inch <input type="checkbox"/> 4 inch <input type="checkbox"/> 6 inch <input type="checkbox"/> _____ WELL MATERIAL <input checked="" type="checkbox"/> PVC <input type="checkbox"/> SS <input type="checkbox"/> _____ | WELL DEPTH 16.71 feet WATER DEPTH 8.69 feet DEPTH OF PUMP INTAKE _____ WATER COLUMN HEIGHT <u>8.02</u> ft x VOLUME OF WATER IN WELL <u>1.28</u> gallons VOLUME OF WATER PURGED <u>3.8</u> gallons Note: Volume = (r^2)h(0.163) | REFERENCE POINT <input type="checkbox"/> Top of riser <input type="checkbox"/> Top of casing <input checked="" type="checkbox"/> Pen mark <input type="checkbox"/> North <input type="checkbox"/> <input checked="" type="checkbox"/> 16 gal/ft (2 in) <input type="checkbox"/> 65 gal/ft (4 in) <input type="checkbox"/> 1.5 gal/ft (6 in) <input type="checkbox"/> ___ gal/ft (___ in) |
| | YES NO | | | | | | | | | | | | | | |
| Protective casing secure | <input checked="" type="checkbox"/> <input type="checkbox"/> | | | | | | | | | | | | | | |
| Concrete collar intact | <input checked="" type="checkbox"/> <input type="checkbox"/> | | | | | | | | | | | | | | |
| PVC stick-up intact | <input checked="" type="checkbox"/> <input type="checkbox"/> | | | | | | | | | | | | | | |
| Well cap present | <input checked="" type="checkbox"/> <input type="checkbox"/> | | | | | | | | | | | | | | |
| Security lock present | <input type="checkbox"/> <input type="checkbox"/> | | | | | | | | | | | | | | |

FIELD WATER QUALITY MEASUREMENTS

| | | | |
|-------------------------|-------|--|--|
| Time | 10:43 | | |
| Volume Purged (gallons) | 3.8 | | |
| Temperature (°C) | 8.1 | | |
| Conductivity (µs/cm) | 2,310 | | |
| pH (Std. units) | 6.94 | | |
| Flow (ml/min) | NA | | |
| Depth to water (ft) | NA | | |

| SAMPLER TYPE | Purge | Sample | DESCRIPTION OF SAMPLING EQUIPMENT (MODEL AND S/N) |
|------------------|-------------------------------------|-------------------------------------|---------------------------------------------------|
| Bailer | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | _____ |
| Peristaltic Pump | <input type="checkbox"/> | <input type="checkbox"/> | _____ |
| Submersible Pump | <input type="checkbox"/> | <input type="checkbox"/> | _____ |
| Bladder pump | <input type="checkbox"/> | <input type="checkbox"/> | _____ |
| Other: _____ | <input type="checkbox"/> | <input type="checkbox"/> | _____ |

| Sample Identification | Filtered (Y/N) | Preservation | Volume/Containers | Time Collected | Date |
|-----------------------|----------------|------------------|--------------------------|----------------|-----------|
| CMW-05 | No | Ice | (2) 1-L amber glass jars | 10:43 | 2/12/2016 |
| CMW-05 | No | HCL | (3) 40-mL vials | 10:43 | 2/12/2016 |
| CMW-05 | Yes | HNO ₃ | (1) 250-mL plastic jar | 10:43 | 2/12/2016 |
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| CONECO ENGINEERS & SCIENTISTS | | GROUNDWATER SAMPLING RECORD | |
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| PROJECT: <u>7400.B</u> | WELL ID: <u>CMW-06</u> | | |
| LOCATION: <u>434 Allens Avenue, Providence, RI</u> | DATE: <u>2/12/2016</u> | | |
| SAMPLED BY: <u>TSN</u> | TIME: <u>9:10</u> | | |
| WELL INTEGRITY <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;"> YES NO Protective casing secure <input checked="" type="checkbox"/> <input type="checkbox"/> Concrete collar intact <input checked="" type="checkbox"/> <input type="checkbox"/> PVC stick-up intact <input checked="" type="checkbox"/> <input type="checkbox"/> Well cap present <input checked="" type="checkbox"/> <input type="checkbox"/> Security lock present <input type="checkbox"/> <input type="checkbox"/> PID SCREENING (ppmV) (if required) Background <u>NA</u> Well mouth _____ DEPTH TO NAPL (ft) <u>NA</u> THICKNESS OF NAPL (ft) <u>NA</u> </td> <td style="width: 50%; border: none;"> PROTECTIVE CASING STICK-UP FROM GROUND (ft) _____ RISER STICK-UP FROM GROUND (ft) _____ WELL DIAMETER <input checked="" type="checkbox"/> 2 inch <input type="checkbox"/> 4 inch <input type="checkbox"/> 6 inch WELL MATERIAL <input checked="" type="checkbox"/> PVC <input type="checkbox"/> SS </td> </tr> </table> | YES NO Protective casing secure <input checked="" type="checkbox"/> <input type="checkbox"/> Concrete collar intact <input checked="" type="checkbox"/> <input type="checkbox"/> PVC stick-up intact <input checked="" type="checkbox"/> <input type="checkbox"/> Well cap present <input checked="" type="checkbox"/> <input type="checkbox"/> Security lock present <input type="checkbox"/> <input type="checkbox"/> PID SCREENING (ppmV) (if required) Background <u>NA</u> Well mouth _____ DEPTH TO NAPL (ft) <u>NA</u> THICKNESS OF NAPL (ft) <u>NA</u> | PROTECTIVE CASING STICK-UP FROM GROUND (ft) _____ RISER STICK-UP FROM GROUND (ft) _____ WELL DIAMETER <input checked="" type="checkbox"/> 2 inch <input type="checkbox"/> 4 inch <input type="checkbox"/> 6 inch WELL MATERIAL <input checked="" type="checkbox"/> PVC <input type="checkbox"/> SS | WELL DEPTH 16.89 feet WATER DEPTH 11.17 feet DEPTH OF PUMP INTAKE _____ WATER COLUMN HEIGHT <u>5.72</u> ft x VOLUME OF WATER IN WELL <u>0.91</u> gallons VOLUME OF WATER PURGED <u>2.75</u> gallons Note: Volume = (r ²)h(0.163) |
| YES NO Protective casing secure <input checked="" type="checkbox"/> <input type="checkbox"/> Concrete collar intact <input checked="" type="checkbox"/> <input type="checkbox"/> PVC stick-up intact <input checked="" type="checkbox"/> <input type="checkbox"/> Well cap present <input checked="" type="checkbox"/> <input type="checkbox"/> Security lock present <input type="checkbox"/> <input type="checkbox"/> PID SCREENING (ppmV) (if required) Background <u>NA</u> Well mouth _____ DEPTH TO NAPL (ft) <u>NA</u> THICKNESS OF NAPL (ft) <u>NA</u> | PROTECTIVE CASING STICK-UP FROM GROUND (ft) _____ RISER STICK-UP FROM GROUND (ft) _____ WELL DIAMETER <input checked="" type="checkbox"/> 2 inch <input type="checkbox"/> 4 inch <input type="checkbox"/> 6 inch WELL MATERIAL <input checked="" type="checkbox"/> PVC <input type="checkbox"/> SS | | |
| REFERENCE POINT <input type="checkbox"/> Top of riser <input type="checkbox"/> Top of casing <input checked="" type="checkbox"/> Pen mark <input type="checkbox"/> North <input type="checkbox"/> <input checked="" type="checkbox"/> 16 gal/ft (2 in) <input type="checkbox"/> 65 gal/ft (4 in) <input type="checkbox"/> 11.5 gal/ft (6 in) <input type="checkbox"/> _ gal/ft (_ in) | | | |

FIELD WATER QUALITY MEASUREMENTS

| | | | |
|-------------------------|-------|--|--|
| Time | 11:00 | | |
| Volume Purged (gallons) | 2.75 | | |
| Temperature (°C) | 10.12 | | |
| Conductivity (µs/cm) | 1,168 | | |
| pH (Std. units) | 6.9 | | |
| Flow (ml/min) | NA | | |
| Depth to water (ft) | NA | | |

| SAMPLER TYPE | Purge | Sample | DESCRIPTION OF SAMPLING EQUIPMENT (MODEL AND S/N) |
|------------------|-------------------------------------|-------------------------------------|---------------------------------------------------|
| Bailer | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | _____ |
| Peristaltic Pump | <input type="checkbox"/> | <input type="checkbox"/> | _____ |
| Submersible Pump | <input type="checkbox"/> | <input type="checkbox"/> | _____ |
| Bladder pump | <input type="checkbox"/> | <input type="checkbox"/> | _____ |
| Other: _____ | <input type="checkbox"/> | <input type="checkbox"/> | _____ |

| Sample Identification | Filtered (Y/N) | Preservation | Volume/Containers | Time Collected | Date |
|-----------------------|----------------|------------------|--------------------------|----------------|-----------|
| CMW-06 | No | Ice | (2) 1-L amber glass jars | 11:00 | 2/12/2016 |
| CMW-06 | No | HCL | (3) 40-mL vials | 11:00 | 2/12/2016 |
| CMW-06 | Yes | HNO ₃ | (1) 250-mL plastic jar | 11:00 | 2/12/2016 |
| | | | | | |
| | | | | | |
| | | | | | |

| CONECO ENGINEERS & SCIENTISTS | | GROUNDWATER SAMPLING RECORD | | | | | | | | | | | | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|-----------------------------|--------------------------|--------------------------------------------------------------|------------------------|---------------------------------------------------|---------------------|--------------------------------------------------------------|------------------|--------------------------------------------------------------|-----------------------|---------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PROJECT: <u>7400.B</u> | WELL ID: <u>CMW-07</u> | | | | | | | | | | | | | | |
| LOCATION: <u>434 Allens Avenue, Providence, RI</u> | DATE: <u>2/12/2016</u> | | | | | | | | | | | | | | |
| SAMPLED BY: <u>TSN</u> | TIME: <u>9:02</u> | | | | | | | | | | | | | | |
| WELL INTEGRITY <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;"></td> <td style="text-align: center;">YES NO</td> </tr> <tr> <td>Protective casing secure</td> <td style="text-align: center;"><input checked="" type="checkbox"/> <input type="checkbox"/></td> </tr> <tr> <td>Concrete collar intact</td> <td style="text-align: center;"><input type="checkbox"/> <input type="checkbox"/></td> </tr> <tr> <td>PVC stick-up intact</td> <td style="text-align: center;"><input checked="" type="checkbox"/> <input type="checkbox"/></td> </tr> <tr> <td>Well cap present</td> <td style="text-align: center;"><input checked="" type="checkbox"/> <input type="checkbox"/></td> </tr> <tr> <td>Security lock present</td> <td style="text-align: center;"><input type="checkbox"/> <input type="checkbox"/></td> </tr> </table> PID SCREENING (ppmV) (if required) Background <u>NA</u> Well mouth _____ DEPTH TO NAPL (ft) <u>NA</u> THICKNESS OF NAPL (ft) <u>NA</u> | | YES NO | Protective casing secure | <input checked="" type="checkbox"/> <input type="checkbox"/> | Concrete collar intact | <input type="checkbox"/> <input type="checkbox"/> | PVC stick-up intact | <input checked="" type="checkbox"/> <input type="checkbox"/> | Well cap present | <input checked="" type="checkbox"/> <input type="checkbox"/> | Security lock present | <input type="checkbox"/> <input type="checkbox"/> | PROTECTIVE CASING STICK-UP FROM GROUND (ft) _____ RISER STICK-UP FROM GROUND (ft) _____ WELL DIAMETER <input checked="" type="checkbox"/> 2 inch <input type="checkbox"/> 4 inch <input type="checkbox"/> 6 inch <input type="checkbox"/> _____ WELL MATERIAL <input checked="" type="checkbox"/> PVC <input type="checkbox"/> SS <input type="checkbox"/> _____ | WELL DEPTH 16.81 feet WATER DEPTH 11.25 feet DEPTH OF PUMP INTAKE _____ WATER COLUMN HEIGHT <u>5.56</u> ft x VOLUME OF WATER IN WELL <u>0.67</u> gallons VOLUME OF WATER PURGED <u>2</u> gallons Note: Volume = (r ²)h(0.163) | REFERENCE POINT <input type="checkbox"/> Top of riser <input type="checkbox"/> Top of casing <input checked="" type="checkbox"/> Pen mark <input type="checkbox"/> North <input type="checkbox"/> <input checked="" type="checkbox"/> 16 gal/ft (2 in) <input type="checkbox"/> 65 gal/ft (4 in) <input type="checkbox"/> 11.5 gal/ft (6 in) <input type="checkbox"/> ___ gal/ft (___ in) |
| | YES NO | | | | | | | | | | | | | | |
| Protective casing secure | <input checked="" type="checkbox"/> <input type="checkbox"/> | | | | | | | | | | | | | | |
| Concrete collar intact | <input type="checkbox"/> <input type="checkbox"/> | | | | | | | | | | | | | | |
| PVC stick-up intact | <input checked="" type="checkbox"/> <input type="checkbox"/> | | | | | | | | | | | | | | |
| Well cap present | <input checked="" type="checkbox"/> <input type="checkbox"/> | | | | | | | | | | | | | | |
| Security lock present | <input type="checkbox"/> <input type="checkbox"/> | | | | | | | | | | | | | | |

FIELD WATER QUALITY MEASUREMENTS

| | | | |
|-------------------------|-------|--|--|
| Time | 11:15 | | |
| Volume Purged (gallons) | 2 | | |
| Temperature (°C) | 10.1 | | |
| Conductivity (µs/cm) | 2,160 | | |
| pH (Std. units) | 6.85 | | |
| Flow (ml/min) | NA | | |
| Depth to water (ft) | NA | | |

| SAMPLER TYPE | Purge | Sample | DESCRIPTION OF SAMPLING EQUIPMENT (MODEL AND S/N) |
|------------------|-------------------------------------|-------------------------------------|---------------------------------------------------|
| Bailer | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | _____ |
| Peristaltic Pump | <input type="checkbox"/> | <input type="checkbox"/> | _____ |
| Submersible Pump | <input type="checkbox"/> | <input type="checkbox"/> | _____ |
| Bladder pump | <input type="checkbox"/> | <input type="checkbox"/> | _____ |
| Other: _____ | <input type="checkbox"/> | <input type="checkbox"/> | _____ |

| Sample Identification | Filtered (Y/N) | Preservation | Volume/Containers | Time Collected | Date |
|-----------------------|----------------|------------------|--------------------------|----------------|-----------|
| CMW-07 | No | Ice | (2) 1-L amber glass jars | 11:15 | 2/12/2016 |
| CMW-07 | No | HCL | (3) 40-mL vials | 11:15 | 2/12/2016 |
| CMW-07 | Yes | HNO ₃ | (1) 250-mL plastic jar | 11:15 | 2/12/2016 |
| | | | | | |
| | | | | | |
| | | | | | |

LABORATORY ANALYTICAL DOCUMENTATION

February 16, 2016

John Aevazelis
Coneco Engineers & Scientists, Inc.
4 First Street
Bridgewater, MA 02324

Project Location: 434 Allens Ave., Providence, RI
Client Job Number:
Project Number: 7400.B
Laboratory Work Order Number: 16B0383

Enclosed are results of analyses for samples received by the laboratory on February 9, 2016. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Steven M. Case". The signature is written in a cursive, flowing style.

Steven M. Case
Project Manager

Table of Contents

| | |
|----------------------------------------------------------------------|----|
| Sample Summary | 4 |
| Case Narrative | 5 |
| Sample Results | 9 |
| 16B0383-01 | 9 |
| 16B0383-02 | 15 |
| 16B0383-03 | 18 |
| 16B0383-04 | 24 |
| Sample Preparation Information | 27 |
| QC Data | 29 |
| Volatile Organic Compounds by GC/MS | 29 |
| B141845 | 29 |
| Semivolatile Organic Compounds by GC/MS | 34 |
| B141843 | 34 |
| Polychlorinated Biphenyls with 3540 Soxhlet Extraction | 39 |
| B141825 | 39 |
| Petroleum Hydrocarbons Analyses | 41 |
| B141903 | 41 |
| Metals Analyses (Total) | 42 |
| B141799 | 42 |
| B141852 | 43 |
| Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) | 44 |
| B141833 | 44 |
| B141837 | 44 |
| B141850 | 44 |
| B141863 | 44 |

Table of Contents (continued)

| | |
|---------------------------------|----|
| Dual Column RPD Report | 45 |
| Flag/Qualifier Summary | 51 |
| Certifications | 52 |
| Chain of Custody/Sample Receipt | 57 |

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

Coneco Engineers & Scientists, Inc.
 4 First Street
 Bridgewater, MA 02324
 ATTN: John Aevazelis

REPORT DATE: 2/16/2016

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 7400.B

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 16B0383

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

PROJECT LOCATION: 434 Allens Ave., Providence, RI

| FIELD SAMPLE # | LAB ID: | MATRIX | SAMPLE DESCRIPTION | TEST | SUB LAB |
|----------------|------------|--------|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| SP-01 | 16B0383-01 | Soil | | SM 2540G SW-846 1010A SW-846 6010C SW-846 7471B SW-846 8082A SW-846 8100 Modified SW-846 8270D SW-846 9014 SW-846 9030A SW-846 9045C | |
| SP-01 | 16B0383-02 | Soil | | SM 2540G SW-846 8260C | |
| SP-02 | 16B0383-03 | Soil | | SM 2540G SW-846 1010A SW-846 6010C SW-846 7471B SW-846 8082A SW-846 8100 Modified SW-846 8270D SW-846 9014 SW-846 9030A SW-846 9045C | |
| SP-02 | 16B0383-04 | 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.

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332
SW-846 6010C

Qualifications:**MS-07**

Matrix spike recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possibility of sample matrix effects that lead to low bias for reported result or non-homogeneous sample aliquot cannot be eliminated.

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

16B0383-01[SP-01], B141799-MS1

MS-11

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

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

16B0383-01[SP-01], B141799-MS1

MS-19

Sample to spike ratio is greater than or equal to 4:1. Spiked amount is not representative of the native amount in the sample. Appropriate or meaningful recoveries cannot be calculated.

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

16B0383-01[SP-01], B141799-MS1

R-02

Duplicate RPD is outside of control limits. Outlier can be attributed to sample non-homogeneity encountered during sample prep.

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

16B0383-01[SP-01], B141799-DUP1

Cadmium

16B0383-01[SP-01], B141799-DUP1

Chromium

16B0383-01[SP-01], B141799-DUP1

SW-846 8082A

Qualifications:**MS-21**

Matrix spike and/or spike duplicate recovery bias high due to contribution of other Aroclors present in the source sample.

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

B141825-MS1, B141825-MSD1

Aroclor-1016 [2C]

B141825-MS1, B141825-MSD1

Aroclor-1260 [2C]

B141825-MS1

SW-846 8260C

Qualifications:**L-04**

Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.

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

16B0383-02[SP-01], 16B0383-04[SP-02], B141845-BLK1, B141845-BS1, B141845-BSD1

Carbon Disulfide

16B0383-02[SP-01], 16B0383-04[SP-02], B141845-BLK1, B141845-BS1, B141845-BSD1

Chloromethane

16B0383-02[SP-01], 16B0383-04[SP-02], B141845-BLK1, B141845-BS1, B141845-BSD1

L-07

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

Analyte & Samples(s) Qualified:**1,1,1-Trichloroethane**

B141845-BSD1

L-07A

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

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

B141845-BSD1

R-05

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

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

16B0383-02[SP-01], 16B0383-04[SP-02], B141845-BLK1, B141845-BS1, B141845-BSD1

V-05

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

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

16B0383-02[SP-01], 16B0383-04[SP-02], B141845-BLK1, B141845-BS1, B141845-BSD1

V-20

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

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

B141845-BS1, B141845-BSD1

SW-846 8270D**Qualifications:****L-04**

Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.

Analyte & Samples(s) Qualified:**2,4-Dinitrophenol**

16B0383-01[SP-01], 16B0383-03[SP-02], B141843-BLK1, B141843-BS1, B141843-BSD1

Benzoic Acid

16B0383-01[SP-01], 16B0383-03[SP-02], B141843-BLK1, B141843-BS1, B141843-BSD1

R-05

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

Analyte & Samples(s) Qualified:**2,4-Dinitrophenol**

16B0383-01[SP-01], 16B0383-03[SP-02], B141843-BLK1, B141843-BS1, B141843-BSD1

S-07

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:**p-Terphenyl-d14**

B141843-BS1

V-04

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:**Benzidine**

16B0383-01[SP-01], 16B0383-03[SP-02], B141843-BLK1, B141843-BS1, B141843-BSD1

V-05

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

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

16B0383-01[SP-01], 16B0383-03[SP-02], B141843-BLK1, B141843-BS1, B141843-BSD1

V-16

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

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

16B0383-01[SP-01], 16B0383-03[SP-02], B141843-BLK1, B141843-BS1, B141843-BSD1

V-20

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

Analyte & Samples(s) Qualified:**2,4-Dinitrophenol**

16B0383-01[SP-01], 16B0383-03[SP-02], B141843-BLK1, B141843-BS1, B141843-BSD1

2,6-Dinitrotoluene

16B0383-01[SP-01], 16B0383-03[SP-02], B141843-BLK1, B141843-BS1, B141843-BSD1

2-Nitrophenol

16B0383-01[SP-01], 16B0383-03[SP-02], B141843-BLK1, B141843-BS1, B141843-BSD1

3-Nitroaniline

16B0383-01[SP-01], 16B0383-03[SP-02], B141843-BLK1, B141843-BS1, B141843-BSD1

4-Nitroaniline

16B0383-01[SP-01], 16B0383-03[SP-02], B141843-BLK1, B141843-BS1, B141843-BSD1

Benzo(g,h,i)perylene

B141843-BLK1, B141843-BS1, B141843-BSD1

Pentachloronitrobenzene

16B0383-01[SP-01], 16B0383-03[SP-02]

SW-846 9045C

Qualifications:**H-03**

Sample received after recommended holding time was exceeded.

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

16B0383-01[SP-01], 16B0383-03[SP-02], B141837-DUP1

SW-846 8100 Modified

TPH (C9-C36) is quantitated against a calibration made with a diesel standard.

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

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



Tod E. Kopyscinski
Laboratory Director

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0383

Date Received: 2/9/2016

Field Sample #: SP-01

Sampled: 2/5/2016 08:00

Sample ID: 16B0383-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---------------------------------------|---------|------|-----------|----------|------------------|--------------|---------------|--------------------|---------|
| Acenaphthene | 0.25 | 0.20 | mg/Kg dry | 1 | | SW-846 8270D | 2/10/16 | 2/11/16 21:10 | CMR |
| Acenaphthylene | 0.27 | 0.20 | mg/Kg dry | 1 | | SW-846 8270D | 2/10/16 | 2/11/16 21:10 | CMR |
| Acetophenone | ND | 0.40 | mg/Kg dry | 1 | | SW-846 8270D | 2/10/16 | 2/11/16 21:10 | CMR |
| Aniline | ND | 0.40 | mg/Kg dry | 1 | | SW-846 8270D | 2/10/16 | 2/11/16 21:10 | CMR |
| Anthracene | 0.91 | 0.20 | mg/Kg dry | 1 | | SW-846 8270D | 2/10/16 | 2/11/16 21:10 | CMR |
| Benzidine | ND | 0.77 | mg/Kg dry | 1 | V-04, V-05 | SW-846 8270D | 2/10/16 | 2/11/16 21:10 | CMR |
| Benzo(a)anthracene | 2.2 | 0.20 | mg/Kg dry | 1 | | SW-846 8270D | 2/10/16 | 2/11/16 21:10 | CMR |
| Benzo(a)pyrene | 2.1 | 0.20 | mg/Kg dry | 1 | | SW-846 8270D | 2/10/16 | 2/11/16 21:10 | CMR |
| Benzo(b)fluoranthene | 2.3 | 0.20 | mg/Kg dry | 1 | | SW-846 8270D | 2/10/16 | 2/11/16 21:10 | CMR |
| Benzo(g,h,i)perylene | 1.4 | 0.20 | mg/Kg dry | 1 | | SW-846 8270D | 2/10/16 | 2/11/16 21:10 | CMR |
| Benzo(k)fluoranthene | 0.88 | 0.20 | mg/Kg dry | 1 | | SW-846 8270D | 2/10/16 | 2/11/16 21:10 | CMR |
| Benzoic Acid | ND | 1.2 | mg/Kg dry | 1 | L-04 | SW-846 8270D | 2/10/16 | 2/11/16 21:10 | CMR |
| Bis(2-chloroethoxy)methane | ND | 0.40 | mg/Kg dry | 1 | | SW-846 8270D | 2/10/16 | 2/11/16 21:10 | CMR |
| Bis(2-chloroethyl)ether | ND | 0.40 | mg/Kg dry | 1 | | SW-846 8270D | 2/10/16 | 2/11/16 21:10 | CMR |
| Bis(2-chloroisopropyl)ether | ND | 0.40 | mg/Kg dry | 1 | | SW-846 8270D | 2/10/16 | 2/11/16 21:10 | CMR |
| Bis(2-Ethylhexyl)phthalate | 0.48 | 0.40 | mg/Kg dry | 1 | | SW-846 8270D | 2/10/16 | 2/11/16 21:10 | CMR |
| 4-Bromophenylphenylether | ND | 0.40 | mg/Kg dry | 1 | | SW-846 8270D | 2/10/16 | 2/11/16 21:10 | CMR |
| Butylbenzylphthalate | ND | 0.40 | mg/Kg dry | 1 | | SW-846 8270D | 2/10/16 | 2/11/16 21:10 | CMR |
| Carbazole | 0.38 | 0.20 | mg/Kg dry | 1 | | SW-846 8270D | 2/10/16 | 2/11/16 21:10 | CMR |
| 4-Chloroaniline | ND | 0.77 | mg/Kg dry | 1 | | SW-846 8270D | 2/10/16 | 2/11/16 21:10 | CMR |
| 4-Chloro-3-methylphenol | ND | 0.77 | mg/Kg dry | 1 | | SW-846 8270D | 2/10/16 | 2/11/16 21:10 | CMR |
| 2-Chloronaphthalene | ND | 0.40 | mg/Kg dry | 1 | | SW-846 8270D | 2/10/16 | 2/11/16 21:10 | CMR |
| 2-Chlorophenol | ND | 0.40 | mg/Kg dry | 1 | | SW-846 8270D | 2/10/16 | 2/11/16 21:10 | CMR |
| 4-Chlorophenylphenylether | ND | 0.40 | mg/Kg dry | 1 | | SW-846 8270D | 2/10/16 | 2/11/16 21:10 | CMR |
| Chrysene | 2.1 | 0.20 | mg/Kg dry | 1 | | SW-846 8270D | 2/10/16 | 2/11/16 21:10 | CMR |
| Dibenz(a,h)anthracene | 0.32 | 0.20 | mg/Kg dry | 1 | | SW-846 8270D | 2/10/16 | 2/11/16 21:10 | CMR |
| Dibenzofuran | ND | 0.40 | mg/Kg dry | 1 | | SW-846 8270D | 2/10/16 | 2/11/16 21:10 | CMR |
| Di-n-butylphthalate | ND | 0.40 | mg/Kg dry | 1 | | SW-846 8270D | 2/10/16 | 2/11/16 21:10 | CMR |
| 1,2-Dichlorobenzene | ND | 0.40 | mg/Kg dry | 1 | | SW-846 8270D | 2/10/16 | 2/11/16 21:10 | CMR |
| 1,3-Dichlorobenzene | ND | 0.40 | mg/Kg dry | 1 | | SW-846 8270D | 2/10/16 | 2/11/16 21:10 | CMR |
| 1,4-Dichlorobenzene | ND | 0.40 | mg/Kg dry | 1 | | SW-846 8270D | 2/10/16 | 2/11/16 21:10 | CMR |
| 3,3-Dichlorobenzidine | ND | 0.20 | mg/Kg dry | 1 | | SW-846 8270D | 2/10/16 | 2/11/16 21:10 | CMR |
| 2,4-Dichlorophenol | ND | 0.40 | mg/Kg dry | 1 | | SW-846 8270D | 2/10/16 | 2/11/16 21:10 | CMR |
| Diethylphthalate | ND | 0.40 | mg/Kg dry | 1 | | SW-846 8270D | 2/10/16 | 2/11/16 21:10 | CMR |
| 2,4-Dimethylphenol | ND | 0.40 | mg/Kg dry | 1 | | SW-846 8270D | 2/10/16 | 2/11/16 21:10 | CMR |
| Dimethylphthalate | ND | 0.40 | mg/Kg dry | 1 | | SW-846 8270D | 2/10/16 | 2/11/16 21:10 | CMR |
| 4,6-Dinitro-2-methylphenol | ND | 0.40 | mg/Kg dry | 1 | | SW-846 8270D | 2/10/16 | 2/11/16 21:10 | CMR |
| 2,4-Dinitrophenol | ND | 0.77 | mg/Kg dry | 1 | L-04, R-05, V-20 | SW-846 8270D | 2/10/16 | 2/11/16 21:10 | CMR |
| 2,4-Dinitrotoluene | ND | 0.40 | mg/Kg dry | 1 | | SW-846 8270D | 2/10/16 | 2/11/16 21:10 | CMR |
| 2,6-Dinitrotoluene | ND | 0.40 | mg/Kg dry | 1 | V-20 | SW-846 8270D | 2/10/16 | 2/11/16 21:10 | CMR |
| Di-n-octylphthalate | ND | 0.40 | mg/Kg dry | 1 | | SW-846 8270D | 2/10/16 | 2/11/16 21:10 | CMR |
| 1,2-Diphenylhydrazine (as Azobenzene) | ND | 0.40 | mg/Kg dry | 1 | | SW-846 8270D | 2/10/16 | 2/11/16 21:10 | CMR |
| Fluoranthene | 4.8 | 0.40 | mg/Kg dry | 2 | | SW-846 8270D | 2/10/16 | 2/12/16 19:05 | CMR |
| Fluorene | 0.42 | 0.20 | mg/Kg dry | 1 | | SW-846 8270D | 2/10/16 | 2/11/16 21:10 | CMR |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0383

Date Received: 2/9/2016

Field Sample #: SP-01

Sampled: 2/5/2016 08:00

Sample ID: 16B0383-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|----------------------------|---------|------|-----------|----------|------------|--------------|---------------|--------------------|---------|
| Hexachlorobenzene | ND | 0.40 | mg/Kg dry | 1 | | SW-846 8270D | 2/10/16 | 2/11/16 21:10 | CMR |
| Hexachlorobutadiene | ND | 0.40 | mg/Kg dry | 1 | | SW-846 8270D | 2/10/16 | 2/11/16 21:10 | CMR |
| Hexachlorocyclopentadiene | ND | 0.40 | mg/Kg dry | 1 | | SW-846 8270D | 2/10/16 | 2/11/16 21:10 | CMR |
| Hexachloroethane | ND | 0.40 | mg/Kg dry | 1 | | SW-846 8270D | 2/10/16 | 2/11/16 21:10 | CMR |
| Indeno(1,2,3-cd)pyrene | 1.4 | 0.20 | mg/Kg dry | 1 | | SW-846 8270D | 2/10/16 | 2/11/16 21:10 | CMR |
| Isophorone | ND | 0.40 | mg/Kg dry | 1 | | SW-846 8270D | 2/10/16 | 2/11/16 21:10 | CMR |
| 1-Methylnaphthalene | ND | 0.20 | mg/Kg dry | 1 | | SW-846 8270D | 2/10/16 | 2/11/16 21:10 | CMR |
| 2-Methylnaphthalene | 0.23 | 0.20 | mg/Kg dry | 1 | | SW-846 8270D | 2/10/16 | 2/11/16 21:10 | CMR |
| 2-Methylphenol | ND | 0.40 | mg/Kg dry | 1 | | SW-846 8270D | 2/10/16 | 2/11/16 21:10 | CMR |
| 3/4-Methylphenol | ND | 0.40 | mg/Kg dry | 1 | | SW-846 8270D | 2/10/16 | 2/11/16 21:10 | CMR |
| Naphthalene | 0.34 | 0.20 | mg/Kg dry | 1 | | SW-846 8270D | 2/10/16 | 2/11/16 21:10 | CMR |
| 2-Nitroaniline | ND | 0.40 | mg/Kg dry | 1 | | SW-846 8270D | 2/10/16 | 2/11/16 21:10 | CMR |
| 3-Nitroaniline | ND | 0.40 | mg/Kg dry | 1 | V-20 | SW-846 8270D | 2/10/16 | 2/11/16 21:10 | CMR |
| 4-Nitroaniline | ND | 0.40 | mg/Kg dry | 1 | V-20 | SW-846 8270D | 2/10/16 | 2/11/16 21:10 | CMR |
| Nitrobenzene | ND | 0.40 | mg/Kg dry | 1 | | SW-846 8270D | 2/10/16 | 2/11/16 21:10 | CMR |
| 2-Nitrophenol | ND | 0.40 | mg/Kg dry | 1 | V-20 | SW-846 8270D | 2/10/16 | 2/11/16 21:10 | CMR |
| 4-Nitrophenol | ND | 0.77 | mg/Kg dry | 1 | | SW-846 8270D | 2/10/16 | 2/11/16 21:10 | CMR |
| N-Nitrosodimethylamine | ND | 0.40 | mg/Kg dry | 1 | | SW-846 8270D | 2/10/16 | 2/11/16 21:10 | CMR |
| N-Nitrosodiphenylamine | ND | 0.40 | mg/Kg dry | 1 | | SW-846 8270D | 2/10/16 | 2/11/16 21:10 | CMR |
| N-Nitrosodi-n-propylamine | ND | 0.40 | mg/Kg dry | 1 | | SW-846 8270D | 2/10/16 | 2/11/16 21:10 | CMR |
| Pentachloronitrobenzene | ND | 0.40 | mg/Kg dry | 1 | V-16, V-20 | SW-846 8270D | 2/10/16 | 2/11/16 21:10 | CMR |
| Pentachlorophenol | ND | 0.40 | mg/Kg dry | 1 | | SW-846 8270D | 2/10/16 | 2/11/16 21:10 | CMR |
| Phenanthrene | 4.3 | 0.20 | mg/Kg dry | 1 | | SW-846 8270D | 2/10/16 | 2/11/16 21:10 | CMR |
| Phenol | ND | 0.40 | mg/Kg dry | 1 | | SW-846 8270D | 2/10/16 | 2/11/16 21:10 | CMR |
| Pyrene | 4.5 | 0.40 | mg/Kg dry | 2 | | SW-846 8270D | 2/10/16 | 2/12/16 19:05 | CMR |
| Pyridine | ND | 0.40 | mg/Kg dry | 1 | | SW-846 8270D | 2/10/16 | 2/11/16 21:10 | CMR |
| 1,2,4,5-Tetrachlorobenzene | ND | 0.40 | mg/Kg dry | 1 | | SW-846 8270D | 2/10/16 | 2/11/16 21:10 | CMR |
| 1,2,4-Trichlorobenzene | ND | 0.40 | mg/Kg dry | 1 | | SW-846 8270D | 2/10/16 | 2/11/16 21:10 | CMR |
| 2,4,5-Trichlorophenol | ND | 0.40 | mg/Kg dry | 1 | | SW-846 8270D | 2/10/16 | 2/11/16 21:10 | CMR |
| 2,4,6-Trichlorophenol | ND | 0.40 | mg/Kg dry | 1 | | SW-846 8270D | 2/10/16 | 2/11/16 21:10 | CMR |

| Surrogates | % Recovery | Recovery Limits | Flag/Qual |
|----------------------|------------|-----------------|-----------|
| 2-Fluorophenol | 61.6 | 30-130 | |
| Phenol-d6 | 63.5 | 30-130 | |
| Nitrobenzene-d5 | 66.1 | 30-130 | |
| 2-Fluorobiphenyl | 67.5 | 30-130 | |
| 2,4,6-Tribromophenol | 53.4 | 30-130 | |
| p-Terphenyl-d14 | 76.4 | 30-130 | |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0383

Date Received: 2/9/2016

Field Sample #: SP-01

Sampled: 2/5/2016 08:00

Sample ID: 16B0383-01

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|--------------------------|---------|------------|-----------------|----------|-----------|--------------|---------------|--------------------|---------|
| Aroclor-1016 [1] | ND | 0.12 | mg/Kg dry | 5 | | SW-846 8082A | 2/10/16 | 2/12/16 18:06 | KAL |
| Aroclor-1221 [1] | ND | 0.12 | mg/Kg dry | 5 | | SW-846 8082A | 2/10/16 | 2/12/16 18:06 | KAL |
| Aroclor-1232 [1] | ND | 0.12 | mg/Kg dry | 5 | | SW-846 8082A | 2/10/16 | 2/12/16 18:06 | KAL |
| Aroclor-1242 [1] | ND | 0.12 | mg/Kg dry | 5 | | SW-846 8082A | 2/10/16 | 2/12/16 18:06 | KAL |
| Aroclor-1248 [2] | 0.47 | 0.12 | mg/Kg dry | 5 | | SW-846 8082A | 2/10/16 | 2/12/16 18:06 | KAL |
| Aroclor-1254 [2] | 0.49 | 0.12 | mg/Kg dry | 5 | | SW-846 8082A | 2/10/16 | 2/12/16 18:06 | KAL |
| Aroclor-1260 [2] | 0.19 | 0.12 | mg/Kg dry | 5 | | SW-846 8082A | 2/10/16 | 2/12/16 18:06 | KAL |
| Aroclor-1262 [1] | ND | 0.12 | mg/Kg dry | 5 | | SW-846 8082A | 2/10/16 | 2/12/16 18:06 | KAL |
| Aroclor-1268 [1] | ND | 0.12 | mg/Kg dry | 5 | | SW-846 8082A | 2/10/16 | 2/12/16 18:06 | KAL |
| Surrogates | | % Recovery | Recovery Limits | | Flag/Qual | | | | |
| Decachlorobiphenyl [1] | | 66.4 | 30-150 | | | | | 2/12/16 18:06 | |
| Decachlorobiphenyl [2] | | 81.3 | 30-150 | | | | | 2/12/16 18:06 | |
| Tetrachloro-m-xylene [1] | | 66.7 | 30-150 | | | | | 2/12/16 18:06 | |
| Tetrachloro-m-xylene [2] | | 67.4 | 30-150 | | | | | 2/12/16 18:06 | |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0383

Date Received: 2/9/2016

Field Sample #: SP-01

Sampled: 2/5/2016 08:00

Sample ID: 16B0383-01

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|-------------------|---------|-------------------|------------------------|----------|------------------|----------------------|---------------|--------------------|---------|
| TPH (C9-C36) | 540 | 95 | mg/Kg dry | 10 | | SW-846 8100 Modified | 2/11/16 | 2/12/16 15:41 | SCS |
| Surrogates | | % Recovery | Recovery Limits | | Flag/Qual | | | | |
| o-Terphenyl | | 73.1 | 40-140 | | | | | 2/12/16 15:41 | |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0383

Date Received: 2/9/2016

Field Sample #: SP-01

Sampled: 2/5/2016 08:00

Sample ID: 16B0383-01

Sample Matrix: Soil

Metals Analyses (Total)

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|----------|---------|------|-----------|----------|-------------|--------------|---------------|--------------------|---------|
| Arsenic | ND | 2.9 | mg/Kg dry | 1 | | SW-846 6010C | 2/10/16 | 2/10/16 18:52 | AME |
| Barium | 57 | 2.9 | mg/Kg dry | 1 | MS-11, R-02 | SW-846 6010C | 2/10/16 | 2/10/16 18:52 | AME |
| Cadmium | 1.2 | 0.29 | mg/Kg dry | 1 | R-02 | SW-846 6010C | 2/10/16 | 2/10/16 18:52 | AME |
| Chromium | 25 | 0.58 | mg/Kg dry | 1 | R-02 | SW-846 6010C | 2/10/16 | 2/10/16 18:52 | AME |
| Lead | 180 | 0.87 | mg/Kg dry | 1 | MS-19 | SW-846 6010C | 2/10/16 | 2/10/16 18:52 | AME |
| Mercury | 0.83 | 0.13 | mg/Kg dry | 5 | | SW-846 7471B | 2/10/16 | 2/12/16 11:51 | SCB |
| Selenium | ND | 5.8 | mg/Kg dry | 1 | MS-07 | SW-846 6010C | 2/10/16 | 2/10/16 18:52 | AME |
| Silver | ND | 0.58 | mg/Kg dry | 1 | | SW-846 6010C | 2/10/16 | 2/10/16 18:52 | AME |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0383

Date Received: 2/9/2016

Field Sample #: SP-01

Sampled: 2/5/2016 08:00

Sample ID: 16B0383-01

Sample Matrix: Soil

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

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|------------------|----------|-----|----------|----------|-----------|--------------|---------------|--------------------|---------|
| Flashpoint | > 212 °F | | °F | 1 | | SW-846 1010A | 2/10/16 | 2/10/16 17:45 | AG |
| pH @22.4°C | 7.5 | | pH Units | 1 | H-03 | SW-846 9045C | 2/10/16 | 2/10/16 11:30 | LL |
| Reactive Cyanide | ND | 3.9 | mg/Kg | 1 | | SW-846 9014 | 2/10/16 | 2/10/16 17:40 | AG |
| Reactive Sulfide | ND | 20 | mg/Kg | 1 | | SW-846 9030A | 2/10/16 | 2/10/16 17:20 | AG |
| % Solids | 85.7 | | % Wt | 1 | | SM 2540G | 2/11/16 | 2/12/16 10:20 | MRL |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0383

Date Received: 2/9/2016

Field Sample #: SP-01

Sampled: 2/5/2016 08:00

Sample ID: 16B0383-02

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|------------------------------------|---------|--------|-----------|----------|------------|--------------|---------------|--------------------|---------|
| Acetone | ND | 0.10 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 8:39 | MFF |
| Acrylonitrile | ND | 0.0061 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 8:39 | MFF |
| tert-Amyl Methyl Ether (TAME) | ND | 0.0010 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 8:39 | MFF |
| Benzene | ND | 0.0020 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 8:39 | MFF |
| Bromobenzene | ND | 0.0020 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 8:39 | MFF |
| Bromochloromethane | ND | 0.0020 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 8:39 | MFF |
| Bromodichloromethane | ND | 0.0020 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 8:39 | MFF |
| Bromoform | ND | 0.0020 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 8:39 | MFF |
| Bromomethane | ND | 0.010 | mg/Kg dry | 1 | L-04, V-05 | SW-846 8260C | 2/10/16 | 2/10/16 8:39 | MFF |
| 2-Butanone (MEK) | ND | 0.041 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 8:39 | MFF |
| tert-Butyl Alcohol (TBA) | ND | 0.041 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 8:39 | MFF |
| n-Butylbenzene | ND | 0.0020 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 8:39 | MFF |
| sec-Butylbenzene | ND | 0.0020 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 8:39 | MFF |
| tert-Butylbenzene | ND | 0.0020 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 8:39 | MFF |
| tert-Butyl Ethyl Ether (TBEE) | ND | 0.0010 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 8:39 | MFF |
| Carbon Disulfide | ND | 0.010 | mg/Kg dry | 1 | L-04 | SW-846 8260C | 2/10/16 | 2/10/16 8:39 | MFF |
| Carbon Tetrachloride | ND | 0.0020 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 8:39 | MFF |
| Chlorobenzene | ND | 0.0020 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 8:39 | MFF |
| Chlorodibromomethane | ND | 0.0010 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 8:39 | MFF |
| Chloroethane | ND | 0.020 | mg/Kg dry | 1 | R-05 | SW-846 8260C | 2/10/16 | 2/10/16 8:39 | MFF |
| Chloroform | ND | 0.0041 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 8:39 | MFF |
| Chloromethane | ND | 0.010 | mg/Kg dry | 1 | L-04 | SW-846 8260C | 2/10/16 | 2/10/16 8:39 | MFF |
| 2-Chlorotoluene | ND | 0.0020 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 8:39 | MFF |
| 4-Chlorotoluene | ND | 0.0020 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 8:39 | MFF |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 0.0020 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 8:39 | MFF |
| 1,2-Dibromoethane (EDB) | ND | 0.0010 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 8:39 | MFF |
| Dibromomethane | ND | 0.0020 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 8:39 | MFF |
| 1,2-Dichlorobenzene | ND | 0.0020 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 8:39 | MFF |
| 1,3-Dichlorobenzene | ND | 0.0020 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 8:39 | MFF |
| 1,4-Dichlorobenzene | ND | 0.0020 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 8:39 | MFF |
| trans-1,4-Dichloro-2-butene | ND | 0.0041 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 8:39 | MFF |
| Dichlorodifluoromethane (Freon 12) | ND | 0.020 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 8:39 | MFF |
| 1,1-Dichloroethane | ND | 0.0020 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 8:39 | MFF |
| 1,2-Dichloroethane | ND | 0.0020 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 8:39 | MFF |
| 1,1-Dichloroethylene | ND | 0.0041 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 8:39 | MFF |
| cis-1,2-Dichloroethylene | ND | 0.0020 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 8:39 | MFF |
| trans-1,2-Dichloroethylene | ND | 0.0020 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 8:39 | MFF |
| 1,2-Dichloropropane | ND | 0.0020 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 8:39 | MFF |
| 1,3-Dichloropropane | ND | 0.0010 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 8:39 | MFF |
| 2,2-Dichloropropane | ND | 0.0020 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 8:39 | MFF |
| 1,1-Dichloropropene | ND | 0.0020 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 8:39 | MFF |
| cis-1,3-Dichloropropene | ND | 0.0010 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 8:39 | MFF |
| trans-1,3-Dichloropropene | ND | 0.0010 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 8:39 | MFF |
| Diethyl Ether | ND | 0.020 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 8:39 | MFF |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0383

Date Received: 2/9/2016

Field Sample #: SP-01

Sampled: 2/5/2016 08:00

Sample ID: 16B0383-02

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---------------------------------------------------|---------|--------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Diisopropyl Ether (DIPE) | ND | 0.0010 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 8:39 | MFF |
| 1,4-Dioxane | ND | 0.10 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 8:39 | MFF |
| Ethylbenzene | ND | 0.0020 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 8:39 | MFF |
| Hexachlorobutadiene | ND | 0.0020 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 8:39 | MFF |
| 2-Hexanone (MBK) | ND | 0.020 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 8:39 | MFF |
| Isopropylbenzene (Cumene) | ND | 0.0020 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 8:39 | MFF |
| p-Isopropyltoluene (p-Cymene) | ND | 0.0020 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 8:39 | MFF |
| Methyl tert-Butyl Ether (MTBE) | ND | 0.0041 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 8:39 | MFF |
| Methylene Chloride | ND | 0.020 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 8:39 | MFF |
| 4-Methyl-2-pentanone (MIBK) | ND | 0.020 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 8:39 | MFF |
| Naphthalene | ND | 0.0041 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 8:39 | MFF |
| n-Propylbenzene | ND | 0.0020 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 8:39 | MFF |
| Styrene | ND | 0.0020 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 8:39 | MFF |
| 1,1,1,2-Tetrachloroethane | ND | 0.0020 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 8:39 | MFF |
| 1,1,2,2-Tetrachloroethane | ND | 0.0020 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 8:39 | MFF |
| Tetrachloroethylene | ND | 0.0020 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 8:39 | MFF |
| Tetrahydrofuran | ND | 0.010 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 8:39 | MFF |
| Toluene | ND | 0.0020 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 8:39 | MFF |
| 1,2,3-Trichlorobenzene | ND | 0.0020 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 8:39 | MFF |
| 1,2,4-Trichlorobenzene | ND | 0.0020 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 8:39 | MFF |
| 1,3,5-Trichlorobenzene | ND | 0.0020 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 8:39 | MFF |
| 1,1,1-Trichloroethane | ND | 0.0020 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 8:39 | MFF |
| 1,1,2-Trichloroethane | ND | 0.0020 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 8:39 | MFF |
| Trichloroethylene | ND | 0.0020 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 8:39 | MFF |
| Trichlorofluoromethane (Freon 11) | ND | 0.010 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 8:39 | MFF |
| 1,2,3-Trichloropropane | ND | 0.0020 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 8:39 | MFF |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | ND | 0.010 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 8:39 | MFF |
| 1,2,4-Trimethylbenzene | ND | 0.0020 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 8:39 | MFF |
| 1,3,5-Trimethylbenzene | ND | 0.0020 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 8:39 | MFF |
| Vinyl Chloride | ND | 0.010 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 8:39 | MFF |
| m+p Xylene | ND | 0.0041 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 8:39 | MFF |
| o-Xylene | ND | 0.0020 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 8:39 | MFF |

| Surrogates | % Recovery | Recovery Limits | Flag/Qual |
|-----------------------|------------|-----------------|--------------|
| 1,2-Dichloroethane-d4 | 72.8 | 70-130 | 2/10/16 8:39 |
| Toluene-d8 | 92.3 | 70-130 | 2/10/16 8:39 |
| 4-Bromofluorobenzene | 94.8 | 70-130 | 2/10/16 8:39 |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0383

Date Received: 2/9/2016

Field Sample #: SP-01

Sampled: 2/5/2016 08:00

Sample ID: 16B0383-02

Sample Matrix: Soil

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

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|---------------|--------------------|---------|
| % Solids | 85.7 | | % Wt | 1 | | SM 2540G | 2/12/16 | 2/12/16 10:53 | MRL |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0383

Date Received: 2/9/2016

Field Sample #: SP-02

Sampled: 2/5/2016 07:30

Sample ID: 16B0383-03

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---------------------------------------|---------|------|-----------|----------|------------------|--------------|---------------|--------------------|---------|
| Acenaphthene | 0.91 | 0.19 | mg/Kg dry | 1 | | SW-846 8270D | 2/10/16 | 2/11/16 21:34 | CMR |
| Acenaphthylene | 0.22 | 0.19 | mg/Kg dry | 1 | | SW-846 8270D | 2/10/16 | 2/11/16 21:34 | CMR |
| Acetophenone | ND | 0.39 | mg/Kg dry | 1 | | SW-846 8270D | 2/10/16 | 2/11/16 21:34 | CMR |
| Aniline | ND | 0.39 | mg/Kg dry | 1 | | SW-846 8270D | 2/10/16 | 2/11/16 21:34 | CMR |
| Anthracene | 2.2 | 0.19 | mg/Kg dry | 1 | | SW-846 8270D | 2/10/16 | 2/11/16 21:34 | CMR |
| Benzidine | ND | 0.75 | mg/Kg dry | 1 | V-04, V-05 | SW-846 8270D | 2/10/16 | 2/11/16 21:34 | CMR |
| Benzo(a)anthracene | 4.5 | 0.19 | mg/Kg dry | 1 | | SW-846 8270D | 2/10/16 | 2/11/16 21:34 | CMR |
| Benzo(a)pyrene | 4.2 | 0.19 | mg/Kg dry | 1 | | SW-846 8270D | 2/10/16 | 2/11/16 21:34 | CMR |
| Benzo(b)fluoranthene | 4.4 | 0.77 | mg/Kg dry | 4 | | SW-846 8270D | 2/10/16 | 2/12/16 19:30 | CMR |
| Benzo(g,h,i)perylene | 2.5 | 0.19 | mg/Kg dry | 1 | | SW-846 8270D | 2/10/16 | 2/11/16 21:34 | CMR |
| Benzo(k)fluoranthene | 1.8 | 0.19 | mg/Kg dry | 1 | | SW-846 8270D | 2/10/16 | 2/11/16 21:34 | CMR |
| Benzoic Acid | ND | 1.1 | mg/Kg dry | 1 | L-04 | SW-846 8270D | 2/10/16 | 2/11/16 21:34 | CMR |
| Bis(2-chloroethoxy)methane | ND | 0.39 | mg/Kg dry | 1 | | SW-846 8270D | 2/10/16 | 2/11/16 21:34 | CMR |
| Bis(2-chloroethyl)ether | ND | 0.39 | mg/Kg dry | 1 | | SW-846 8270D | 2/10/16 | 2/11/16 21:34 | CMR |
| Bis(2-chloroisopropyl)ether | ND | 0.39 | mg/Kg dry | 1 | | SW-846 8270D | 2/10/16 | 2/11/16 21:34 | CMR |
| Bis(2-Ethylhexyl)phthalate | 2.5 | 0.39 | mg/Kg dry | 1 | | SW-846 8270D | 2/10/16 | 2/11/16 21:34 | CMR |
| 4-Bromophenylphenylether | ND | 0.39 | mg/Kg dry | 1 | | SW-846 8270D | 2/10/16 | 2/11/16 21:34 | CMR |
| Butylbenzylphthalate | 0.85 | 0.39 | mg/Kg dry | 1 | | SW-846 8270D | 2/10/16 | 2/11/16 21:34 | CMR |
| Carbazole | 1.0 | 0.19 | mg/Kg dry | 1 | | SW-846 8270D | 2/10/16 | 2/11/16 21:34 | CMR |
| 4-Chloroaniline | ND | 0.75 | mg/Kg dry | 1 | | SW-846 8270D | 2/10/16 | 2/11/16 21:34 | CMR |
| 4-Chloro-3-methylphenol | ND | 0.75 | mg/Kg dry | 1 | | SW-846 8270D | 2/10/16 | 2/11/16 21:34 | CMR |
| 2-Chloronaphthalene | ND | 0.39 | mg/Kg dry | 1 | | SW-846 8270D | 2/10/16 | 2/11/16 21:34 | CMR |
| 2-Chlorophenol | ND | 0.39 | mg/Kg dry | 1 | | SW-846 8270D | 2/10/16 | 2/11/16 21:34 | CMR |
| 4-Chlorophenylphenylether | ND | 0.39 | mg/Kg dry | 1 | | SW-846 8270D | 2/10/16 | 2/11/16 21:34 | CMR |
| Chrysene | 4.5 | 0.19 | mg/Kg dry | 1 | | SW-846 8270D | 2/10/16 | 2/11/16 21:34 | CMR |
| Dibenz(a,h)anthracene | 0.68 | 0.19 | mg/Kg dry | 1 | | SW-846 8270D | 2/10/16 | 2/11/16 21:34 | CMR |
| Dibenzofuran | 0.66 | 0.39 | mg/Kg dry | 1 | | SW-846 8270D | 2/10/16 | 2/11/16 21:34 | CMR |
| Di-n-butylphthalate | ND | 0.39 | mg/Kg dry | 1 | | SW-846 8270D | 2/10/16 | 2/11/16 21:34 | CMR |
| 1,2-Dichlorobenzene | ND | 0.39 | mg/Kg dry | 1 | | SW-846 8270D | 2/10/16 | 2/11/16 21:34 | CMR |
| 1,3-Dichlorobenzene | ND | 0.39 | mg/Kg dry | 1 | | SW-846 8270D | 2/10/16 | 2/11/16 21:34 | CMR |
| 1,4-Dichlorobenzene | ND | 0.39 | mg/Kg dry | 1 | | SW-846 8270D | 2/10/16 | 2/11/16 21:34 | CMR |
| 3,3-Dichlorobenzidine | ND | 0.19 | mg/Kg dry | 1 | | SW-846 8270D | 2/10/16 | 2/11/16 21:34 | CMR |
| 2,4-Dichlorophenol | ND | 0.39 | mg/Kg dry | 1 | | SW-846 8270D | 2/10/16 | 2/11/16 21:34 | CMR |
| Diethylphthalate | ND | 0.39 | mg/Kg dry | 1 | | SW-846 8270D | 2/10/16 | 2/11/16 21:34 | CMR |
| 2,4-Dimethylphenol | ND | 0.39 | mg/Kg dry | 1 | | SW-846 8270D | 2/10/16 | 2/11/16 21:34 | CMR |
| Dimethylphthalate | ND | 0.39 | mg/Kg dry | 1 | | SW-846 8270D | 2/10/16 | 2/11/16 21:34 | CMR |
| 4,6-Dinitro-2-methylphenol | ND | 0.39 | mg/Kg dry | 1 | | SW-846 8270D | 2/10/16 | 2/11/16 21:34 | CMR |
| 2,4-Dinitrophenol | ND | 0.75 | mg/Kg dry | 1 | L-04, R-05, V-20 | SW-846 8270D | 2/10/16 | 2/11/16 21:34 | CMR |
| 2,4-Dinitrotoluene | ND | 0.39 | mg/Kg dry | 1 | | SW-846 8270D | 2/10/16 | 2/11/16 21:34 | CMR |
| 2,6-Dinitrotoluene | ND | 0.39 | mg/Kg dry | 1 | V-20 | SW-846 8270D | 2/10/16 | 2/11/16 21:34 | CMR |
| Di-n-octylphthalate | ND | 0.39 | mg/Kg dry | 1 | | SW-846 8270D | 2/10/16 | 2/11/16 21:34 | CMR |
| 1,2-Diphenylhydrazine (as Azobenzene) | ND | 0.39 | mg/Kg dry | 1 | | SW-846 8270D | 2/10/16 | 2/11/16 21:34 | CMR |
| Fluoranthene | 9.7 | 0.77 | mg/Kg dry | 4 | | SW-846 8270D | 2/10/16 | 2/12/16 19:30 | CMR |
| Fluorene | 1.1 | 0.19 | mg/Kg dry | 1 | | SW-846 8270D | 2/10/16 | 2/11/16 21:34 | CMR |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0383

Date Received: 2/9/2016

Field Sample #: SP-02

Sampled: 2/5/2016 07:30

Sample ID: 16B0383-03

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|----------------------------|---------|------|-----------|----------|------------|--------------|---------------|--------------------|---------|
| Hexachlorobenzene | ND | 0.39 | mg/Kg dry | 1 | | SW-846 8270D | 2/10/16 | 2/11/16 21:34 | CMR |
| Hexachlorobutadiene | ND | 0.39 | mg/Kg dry | 1 | | SW-846 8270D | 2/10/16 | 2/11/16 21:34 | CMR |
| Hexachlorocyclopentadiene | ND | 0.39 | mg/Kg dry | 1 | | SW-846 8270D | 2/10/16 | 2/11/16 21:34 | CMR |
| Hexachloroethane | ND | 0.39 | mg/Kg dry | 1 | | SW-846 8270D | 2/10/16 | 2/11/16 21:34 | CMR |
| Indeno(1,2,3-cd)pyrene | 2.7 | 0.19 | mg/Kg dry | 1 | | SW-846 8270D | 2/10/16 | 2/11/16 21:34 | CMR |
| Isophorone | ND | 0.39 | mg/Kg dry | 1 | | SW-846 8270D | 2/10/16 | 2/11/16 21:34 | CMR |
| 1-Methylnaphthalene | 0.26 | 0.19 | mg/Kg dry | 1 | | SW-846 8270D | 2/10/16 | 2/11/16 21:34 | CMR |
| 2-Methylnaphthalene | 0.42 | 0.19 | mg/Kg dry | 1 | | SW-846 8270D | 2/10/16 | 2/11/16 21:34 | CMR |
| 2-Methylphenol | ND | 0.39 | mg/Kg dry | 1 | | SW-846 8270D | 2/10/16 | 2/11/16 21:34 | CMR |
| 3/4-Methylphenol | ND | 0.39 | mg/Kg dry | 1 | | SW-846 8270D | 2/10/16 | 2/11/16 21:34 | CMR |
| Naphthalene | 0.77 | 0.19 | mg/Kg dry | 1 | | SW-846 8270D | 2/10/16 | 2/11/16 21:34 | CMR |
| 2-Nitroaniline | ND | 0.39 | mg/Kg dry | 1 | | SW-846 8270D | 2/10/16 | 2/11/16 21:34 | CMR |
| 3-Nitroaniline | ND | 0.39 | mg/Kg dry | 1 | V-20 | SW-846 8270D | 2/10/16 | 2/11/16 21:34 | CMR |
| 4-Nitroaniline | ND | 0.39 | mg/Kg dry | 1 | V-20 | SW-846 8270D | 2/10/16 | 2/11/16 21:34 | CMR |
| Nitrobenzene | ND | 0.39 | mg/Kg dry | 1 | | SW-846 8270D | 2/10/16 | 2/11/16 21:34 | CMR |
| 2-Nitrophenol | ND | 0.39 | mg/Kg dry | 1 | V-20 | SW-846 8270D | 2/10/16 | 2/11/16 21:34 | CMR |
| 4-Nitrophenol | ND | 0.75 | mg/Kg dry | 1 | | SW-846 8270D | 2/10/16 | 2/11/16 21:34 | CMR |
| N-Nitrosodimethylamine | ND | 0.39 | mg/Kg dry | 1 | | SW-846 8270D | 2/10/16 | 2/11/16 21:34 | CMR |
| N-Nitrosodiphenylamine | ND | 0.39 | mg/Kg dry | 1 | | SW-846 8270D | 2/10/16 | 2/11/16 21:34 | CMR |
| N-Nitrosodi-n-propylamine | ND | 0.39 | mg/Kg dry | 1 | | SW-846 8270D | 2/10/16 | 2/11/16 21:34 | CMR |
| Pentachloronitrobenzene | ND | 0.39 | mg/Kg dry | 1 | V-16, V-20 | SW-846 8270D | 2/10/16 | 2/11/16 21:34 | CMR |
| Pentachlorophenol | ND | 0.39 | mg/Kg dry | 1 | | SW-846 8270D | 2/10/16 | 2/11/16 21:34 | CMR |
| Phenanthrene | 7.6 | 0.77 | mg/Kg dry | 4 | | SW-846 8270D | 2/10/16 | 2/12/16 19:30 | CMR |
| Phenol | ND | 0.39 | mg/Kg dry | 1 | | SW-846 8270D | 2/10/16 | 2/11/16 21:34 | CMR |
| Pyrene | 8.9 | 0.77 | mg/Kg dry | 4 | | SW-846 8270D | 2/10/16 | 2/12/16 19:30 | CMR |
| Pyridine | ND | 0.39 | mg/Kg dry | 1 | | SW-846 8270D | 2/10/16 | 2/11/16 21:34 | CMR |
| 1,2,4,5-Tetrachlorobenzene | ND | 0.39 | mg/Kg dry | 1 | | SW-846 8270D | 2/10/16 | 2/11/16 21:34 | CMR |
| 1,2,4-Trichlorobenzene | ND | 0.39 | mg/Kg dry | 1 | | SW-846 8270D | 2/10/16 | 2/11/16 21:34 | CMR |
| 2,4,5-Trichlorophenol | ND | 0.39 | mg/Kg dry | 1 | | SW-846 8270D | 2/10/16 | 2/11/16 21:34 | CMR |
| 2,4,6-Trichlorophenol | ND | 0.39 | mg/Kg dry | 1 | | SW-846 8270D | 2/10/16 | 2/11/16 21:34 | CMR |

| Surrogates | % Recovery | Recovery Limits | Flag/Qual |
|----------------------|------------|-----------------|-----------|
| 2-Fluorophenol | 70.7 | 30-130 | |
| Phenol-d6 | 74.2 | 30-130 | |
| Nitrobenzene-d5 | 76.4 | 30-130 | |
| 2-Fluorobiphenyl | 81.4 | 30-130 | |
| 2,4,6-Tribromophenol | 67.1 | 30-130 | |
| p-Terphenyl-d14 | 86.2 | 30-130 | |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0383

Date Received: 2/9/2016

Field Sample #: SP-02

Sampled: 2/5/2016 07:30

Sample ID: 16B0383-03

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|--------------------------|---------|------------|-----------------|----------|-----------|--------------|---------------|--------------------|---------|
| Aroclor-1016 [1] | ND | 0.11 | mg/Kg dry | 5 | | SW-846 8082A | 2/10/16 | 2/12/16 18:19 | KAL |
| Aroclor-1221 [1] | ND | 0.11 | mg/Kg dry | 5 | | SW-846 8082A | 2/10/16 | 2/12/16 18:19 | KAL |
| Aroclor-1232 [1] | ND | 0.11 | mg/Kg dry | 5 | | SW-846 8082A | 2/10/16 | 2/12/16 18:19 | KAL |
| Aroclor-1242 [1] | ND | 0.11 | mg/Kg dry | 5 | | SW-846 8082A | 2/10/16 | 2/12/16 18:19 | KAL |
| Aroclor-1248 [2] | 0.37 | 0.11 | mg/Kg dry | 5 | | SW-846 8082A | 2/10/16 | 2/12/16 18:19 | KAL |
| Aroclor-1254 [2] | 0.81 | 0.11 | mg/Kg dry | 5 | | SW-846 8082A | 2/10/16 | 2/12/16 18:19 | KAL |
| Aroclor-1260 [2] | 0.17 | 0.11 | mg/Kg dry | 5 | | SW-846 8082A | 2/10/16 | 2/12/16 18:19 | KAL |
| Aroclor-1262 [1] | ND | 0.11 | mg/Kg dry | 5 | | SW-846 8082A | 2/10/16 | 2/12/16 18:19 | KAL |
| Aroclor-1268 [1] | ND | 0.11 | mg/Kg dry | 5 | | SW-846 8082A | 2/10/16 | 2/12/16 18:19 | KAL |
| Surrogates | | % Recovery | Recovery Limits | | Flag/Qual | | | | |
| Decachlorobiphenyl [1] | | 67.8 | 30-150 | | | | | 2/12/16 18:19 | |
| Decachlorobiphenyl [2] | | 80.3 | 30-150 | | | | | 2/12/16 18:19 | |
| Tetrachloro-m-xylene [1] | | 72.5 | 30-150 | | | | | 2/12/16 18:19 | |
| Tetrachloro-m-xylene [2] | | 76.5 | 30-150 | | | | | 2/12/16 18:19 | |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0383

Date Received: 2/9/2016

Field Sample #: SP-02

Sampled: 2/5/2016 07:30

Sample ID: 16B0383-03

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|-------------------|---------|-------------------|------------------------|----------|------------------|----------------------|---------------|--------------------|---------|
| TPH (C9-C36) | 1900 | 470 | mg/Kg dry | 50 | | SW-846 8100 Modified | 2/11/16 | 2/12/16 15:58 | SCS |
| Surrogates | | % Recovery | Recovery Limits | | Flag/Qual | | | | |
| o-Terphenyl | | 77.0 | 40-140 | | | | | 2/12/16 15:58 | |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0383

Date Received: 2/9/2016

Field Sample #: SP-02

Sampled: 2/5/2016 07:30

Sample ID: 16B0383-03

Sample Matrix: Soil

Metals Analyses (Total)

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|----------|---------|------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Arsenic | 6.4 | 2.8 | mg/Kg dry | 1 | | SW-846 6010C | 2/10/16 | 2/10/16 19:19 | AME |
| Barium | 110 | 2.8 | mg/Kg dry | 1 | | SW-846 6010C | 2/10/16 | 2/10/16 19:19 | AME |
| Cadmium | 1.3 | 0.28 | mg/Kg dry | 1 | | SW-846 6010C | 2/10/16 | 2/10/16 19:19 | AME |
| Chromium | 100 | 0.57 | mg/Kg dry | 1 | | SW-846 6010C | 2/10/16 | 2/10/16 19:19 | AME |
| Lead | 730 | 0.85 | mg/Kg dry | 1 | | SW-846 6010C | 2/10/16 | 2/10/16 19:19 | AME |
| Mercury | 0.73 | 0.14 | mg/Kg dry | 5 | | SW-846 7471B | 2/10/16 | 2/12/16 11:53 | SCB |
| Selenium | ND | 5.7 | mg/Kg dry | 1 | | SW-846 6010C | 2/10/16 | 2/10/16 19:19 | AME |
| Silver | ND | 0.57 | mg/Kg dry | 1 | | SW-846 6010C | 2/10/16 | 2/10/16 19:19 | AME |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0383

Date Received: 2/9/2016

Field Sample #: SP-02

Sampled: 2/5/2016 07:30

Sample ID: 16B0383-03

Sample Matrix: Soil

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

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|------------------|----------|-----|----------|----------|-----------|--------------|---------------|--------------------|---------|
| Flashpoint | > 212 °F | | °F | 1 | | SW-846 1010A | 2/10/16 | 2/10/16 17:45 | AG |
| pH @22.2°C | 7.6 | | pH Units | 1 | H-03 | SW-846 9045C | 2/10/16 | 2/10/16 11:30 | LL |
| Reactive Cyanide | ND | 3.9 | mg/Kg | 1 | | SW-846 9014 | 2/10/16 | 2/10/16 17:40 | AG |
| Reactive Sulfide | ND | 20 | mg/Kg | 1 | | SW-846 9030A | 2/10/16 | 2/10/16 17:20 | AG |
| % Solids | 87.8 | | % Wt | 1 | | SM 2540G | 2/11/16 | 2/12/16 10:20 | MRL |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0383

Date Received: 2/9/2016

Field Sample #: SP-02

Sampled: 2/5/2016 07:30

Sample ID: 16B0383-04

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|------------------------------------|---------|--------|-----------|----------|------------|--------------|---------------|--------------------|---------|
| Acetone | ND | 0.11 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 9:07 | MFF |
| Acrylonitrile | ND | 0.0065 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 9:07 | MFF |
| tert-Amyl Methyl Ether (TAME) | ND | 0.0011 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 9:07 | MFF |
| Benzene | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 9:07 | MFF |
| Bromobenzene | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 9:07 | MFF |
| Bromochloromethane | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 9:07 | MFF |
| Bromodichloromethane | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 9:07 | MFF |
| Bromoform | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 9:07 | MFF |
| Bromomethane | ND | 0.011 | mg/Kg dry | 1 | L-04, V-05 | SW-846 8260C | 2/10/16 | 2/10/16 9:07 | MFF |
| 2-Butanone (MEK) | ND | 0.043 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 9:07 | MFF |
| tert-Butyl Alcohol (TBA) | ND | 0.043 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 9:07 | MFF |
| n-Butylbenzene | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 9:07 | MFF |
| sec-Butylbenzene | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 9:07 | MFF |
| tert-Butylbenzene | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 9:07 | MFF |
| tert-Butyl Ethyl Ether (TBEE) | ND | 0.0011 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 9:07 | MFF |
| Carbon Disulfide | ND | 0.011 | mg/Kg dry | 1 | L-04 | SW-846 8260C | 2/10/16 | 2/10/16 9:07 | MFF |
| Carbon Tetrachloride | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 9:07 | MFF |
| Chlorobenzene | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 9:07 | MFF |
| Chlorodibromomethane | ND | 0.0011 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 9:07 | MFF |
| Chloroethane | ND | 0.022 | mg/Kg dry | 1 | R-05 | SW-846 8260C | 2/10/16 | 2/10/16 9:07 | MFF |
| Chloroform | ND | 0.0043 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 9:07 | MFF |
| Chloromethane | ND | 0.011 | mg/Kg dry | 1 | L-04 | SW-846 8260C | 2/10/16 | 2/10/16 9:07 | MFF |
| 2-Chlorotoluene | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 9:07 | MFF |
| 4-Chlorotoluene | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 9:07 | MFF |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 9:07 | MFF |
| 1,2-Dibromoethane (EDB) | ND | 0.0011 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 9:07 | MFF |
| Dibromomethane | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 9:07 | MFF |
| 1,2-Dichlorobenzene | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 9:07 | MFF |
| 1,3-Dichlorobenzene | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 9:07 | MFF |
| 1,4-Dichlorobenzene | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 9:07 | MFF |
| trans-1,4-Dichloro-2-butene | ND | 0.0043 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 9:07 | MFF |
| Dichlorodifluoromethane (Freon 12) | ND | 0.022 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 9:07 | MFF |
| 1,1-Dichloroethane | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 9:07 | MFF |
| 1,2-Dichloroethane | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 9:07 | MFF |
| 1,1-Dichloroethylene | ND | 0.0043 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 9:07 | MFF |
| cis-1,2-Dichloroethylene | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 9:07 | MFF |
| trans-1,2-Dichloroethylene | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 9:07 | MFF |
| 1,2-Dichloropropane | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 9:07 | MFF |
| 1,3-Dichloropropane | ND | 0.0011 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 9:07 | MFF |
| 2,2-Dichloropropane | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 9:07 | MFF |
| 1,1-Dichloropropene | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 9:07 | MFF |
| cis-1,3-Dichloropropene | ND | 0.0011 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 9:07 | MFF |
| trans-1,3-Dichloropropene | ND | 0.0011 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 9:07 | MFF |
| Diethyl Ether | ND | 0.022 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 9:07 | MFF |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0383

Date Received: 2/9/2016

Field Sample #: SP-02

Sampled: 2/5/2016 07:30

Sample ID: 16B0383-04

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---------------------------------------------------|---------|--------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Diisopropyl Ether (DIPE) | ND | 0.0011 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 9:07 | MFF |
| 1,4-Dioxane | ND | 0.11 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 9:07 | MFF |
| Ethylbenzene | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 9:07 | MFF |
| Hexachlorobutadiene | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 9:07 | MFF |
| 2-Hexanone (MBK) | ND | 0.022 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 9:07 | MFF |
| Isopropylbenzene (Cumene) | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 9:07 | MFF |
| p-Isopropyltoluene (p-Cymene) | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 9:07 | MFF |
| Methyl tert-Butyl Ether (MTBE) | ND | 0.0043 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 9:07 | MFF |
| Methylene Chloride | ND | 0.022 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 9:07 | MFF |
| 4-Methyl-2-pentanone (MIBK) | ND | 0.022 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 9:07 | MFF |
| Naphthalene | ND | 0.0043 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 9:07 | MFF |
| n-Propylbenzene | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 9:07 | MFF |
| Styrene | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 9:07 | MFF |
| 1,1,1,2-Tetrachloroethane | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 9:07 | MFF |
| 1,1,2,2-Tetrachloroethane | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 9:07 | MFF |
| Tetrachloroethylene | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 9:07 | MFF |
| Tetrahydrofuran | ND | 0.011 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 9:07 | MFF |
| Toluene | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 9:07 | MFF |
| 1,2,3-Trichlorobenzene | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 9:07 | MFF |
| 1,2,4-Trichlorobenzene | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 9:07 | MFF |
| 1,3,5-Trichlorobenzene | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 9:07 | MFF |
| 1,1,1-Trichloroethane | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 9:07 | MFF |
| 1,1,2-Trichloroethane | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 9:07 | MFF |
| Trichloroethylene | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 9:07 | MFF |
| Trichlorofluoromethane (Freon 11) | ND | 0.011 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 9:07 | MFF |
| 1,2,3-Trichloropropane | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 9:07 | MFF |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | ND | 0.011 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 9:07 | MFF |
| 1,2,4-Trimethylbenzene | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 9:07 | MFF |
| 1,3,5-Trimethylbenzene | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 9:07 | MFF |
| Vinyl Chloride | ND | 0.011 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 9:07 | MFF |
| m+p Xylene | ND | 0.0043 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 9:07 | MFF |
| o-Xylene | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/10/16 | 2/10/16 9:07 | MFF |

| Surrogates | % Recovery | Recovery Limits | Flag/Qual |
|-----------------------|------------|-----------------|--------------|
| 1,2-Dichloroethane-d4 | 73.5 | 70-130 | 2/10/16 9:07 |
| Toluene-d8 | 93.9 | 70-130 | 2/10/16 9:07 |
| 4-Bromofluorobenzene | 96.5 | 70-130 | 2/10/16 9:07 |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0383

Date Received: 2/9/2016

Field Sample #: SP-02

Sampled: 2/5/2016 07:30

Sample ID: 16B0383-04

Sample Matrix: Soil

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

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|---------------|--------------------|---------|
| % Solids | 87.8 | | % Wt | 1 | | SM 2540G | 2/12/16 | 2/12/16 10:53 | MRL |

Sample Extraction Data

Prep Method: % Solids-SM 2540G

| Lab Number [Field ID] | Batch | Date |
|-----------------------|---------|----------|
| 16B0383-01 [SP-01] | B141986 | 02/11/16 |
| 16B0383-02 [SP-01] | B141986 | 02/12/16 |
| 16B0383-03 [SP-02] | B141986 | 02/11/16 |
| 16B0383-04 [SP-02] | B141986 | 02/12/16 |

SW-846 1010A

| Lab Number [Field ID] | Batch | Initial [g] | Final [mL] | Date |
|-----------------------|---------|-------------|------------|----------|
| 16B0383-01 [SP-01] | B141833 | 50.0 | 50.0 | 02/10/16 |
| 16B0383-03 [SP-02] | B141833 | 50.0 | 50.0 | 02/10/16 |

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

| Lab Number [Field ID] | Batch | Initial [g] | Final [mL] | Date |
|-----------------------|---------|-------------|------------|----------|
| 16B0383-01 [SP-01] | B141799 | 1.00 | 50.0 | 02/10/16 |
| 16B0383-03 [SP-02] | B141799 | 1.01 | 50.0 | 02/10/16 |

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

| Lab Number [Field ID] | Batch | Initial [g] | Final [mL] | Date |
|-----------------------|---------|-------------|------------|----------|
| 16B0383-01 [SP-01] | B141852 | 0.655 | 50.0 | 02/10/16 |
| 16B0383-03 [SP-02] | B141852 | 0.625 | 50.0 | 02/10/16 |

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

| Lab Number [Field ID] | Batch | Initial [g] | Final [mL] | Date |
|-----------------------|---------|-------------|------------|----------|
| 16B0383-01 [SP-01] | B141825 | 10.1 | 10.0 | 02/10/16 |
| 16B0383-03 [SP-02] | B141825 | 10.0 | 10.0 | 02/10/16 |

Prep Method: SW-846 3546-SW-846 8100 Modified

| Lab Number [Field ID] | Batch | Initial [g] | Final [mL] | Date |
|-----------------------|---------|-------------|------------|----------|
| 16B0383-01 [SP-01] | B141903 | 30.7 | 1.00 | 02/11/16 |
| 16B0383-03 [SP-02] | B141903 | 30.3 | 1.00 | 02/11/16 |

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

| Lab Number [Field ID] | Batch | Initial [g] | Final [mL] | Date |
|-----------------------|---------|-------------|------------|----------|
| 16B0383-02 [SP-01] | B141845 | 5.72 | 10.0 | 02/10/16 |
| 16B0383-04 [SP-02] | B141845 | 5.24 | 10.0 | 02/10/16 |

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

| Lab Number [Field ID] | Batch | Initial [g] | Final [mL] | Date |
|-----------------------|---------|-------------|------------|----------|
| 16B0383-01 [SP-01] | B141843 | 30.0 | 1.00 | 02/10/16 |
| 16B0383-01RE1 [SP-01] | B141843 | 30.0 | 1.00 | 02/10/16 |

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

Sample Extraction Data

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

| Lab Number [Field ID] | Batch | Initial [g] | Final [mL] | Date |
|-----------------------|---------|-------------|------------|----------|
| 16B0383-03 [SP-02] | B141843 | 30.0 | 1.00 | 02/10/16 |
| 16B0383-03RE1 [SP-02] | B141843 | 30.0 | 1.00 | 02/10/16 |

SW-846 9014

| Lab Number [Field ID] | Batch | Initial [g] | Final [mL] | Date |
|-----------------------|---------|-------------|------------|----------|
| 16B0383-01 [SP-01] | B141863 | 25.6 | 250 | 02/10/16 |
| 16B0383-03 [SP-02] | B141863 | 25.5 | 250 | 02/10/16 |

SW-846 9030A

| Lab Number [Field ID] | Batch | Initial [g] | Final [mL] | Date |
|-----------------------|---------|-------------|------------|----------|
| 16B0383-01 [SP-01] | B141850 | 25.6 | 250 | 02/10/16 |
| 16B0383-03 [SP-02] | B141850 | 25.5 | 250 | 02/10/16 |

SW-846 9045C

| Lab Number [Field ID] | Batch | Initial [g] | Date |
|-----------------------|---------|-------------|----------|
| 16B0383-01 [SP-01] | B141837 | 20.0 | 02/10/16 |
| 16B0383-03 [SP-02] | B141837 | 20.0 | 02/10/16 |

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

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

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

Batch B141845 - SW-846 5035

Blank (B141845-BLK1)

Prepared & Analyzed: 02/10/16

| | | | | | | | | | | |
|------------------------------------|----|--------|-----------|--|--|--|--|--|--|------------|
| Acetone | ND | 0.10 | mg/Kg wet | | | | | | | |
| Acrylonitrile | ND | 0.0060 | 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 | | | | | | | L-04, V-05 |
| 2-Butanone (MEK) | ND | 0.040 | mg/Kg wet | | | | | | | |
| tert-Butyl Alcohol (TBA) | 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 | 0.010 | mg/Kg wet | | | | | | | L-04 |
| Carbon Tetrachloride | ND | 0.0020 | mg/Kg wet | | | | | | | |
| Chlorobenzene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| Chlorodibromomethane | ND | 0.0010 | mg/Kg wet | | | | | | | |
| Chloroethane | ND | 0.020 | mg/Kg wet | | | | | | | R-05 |
| Chloroform | ND | 0.0040 | mg/Kg wet | | | | | | | |
| Chloromethane | ND | 0.010 | mg/Kg wet | | | | | | | L-04 |
| 2-Chlorotoluene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| 4-Chlorotoluene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 0.0020 | mg/Kg wet | | | | | | | |
| 1,2-Dibromoethane (EDB) | ND | 0.0010 | mg/Kg wet | | | | | | | |
| Dibromomethane | ND | 0.0020 | mg/Kg wet | | | | | | | |
| 1,2-Dichlorobenzene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| 1,3-Dichlorobenzene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| 1,4-Dichlorobenzene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| trans-1,4-Dichloro-2-butene | ND | 0.0040 | mg/Kg wet | | | | | | | |
| Dichlorodifluoromethane (Freon 12) | ND | 0.020 | mg/Kg wet | | | | | | | |
| 1,1-Dichloroethane | ND | 0.0020 | mg/Kg wet | | | | | | | |
| 1,2-Dichloroethane | ND | 0.0020 | mg/Kg wet | | | | | | | |
| 1,1-Dichloroethylene | ND | 0.0040 | mg/Kg wet | | | | | | | |
| cis-1,2-Dichloroethylene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| trans-1,2-Dichloroethylene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| 1,2-Dichloropropane | ND | 0.0020 | mg/Kg wet | | | | | | | |
| 1,3-Dichloropropane | ND | 0.0010 | mg/Kg wet | | | | | | | |
| 2,2-Dichloropropane | ND | 0.0020 | mg/Kg wet | | | | | | | |
| 1,1-Dichloropropene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| cis-1,3-Dichloropropene | ND | 0.0010 | mg/Kg wet | | | | | | | |
| trans-1,3-Dichloropropene | ND | 0.0010 | mg/Kg wet | | | | | | | |
| Diethyl Ether | ND | 0.020 | mg/Kg wet | | | | | | | |
| Diisopropyl Ether (DIPE) | ND | 0.0010 | mg/Kg wet | | | | | | | |
| 1,4-Dioxane | ND | 0.10 | mg/Kg wet | | | | | | | |
| 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 | | | | | | | |

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

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------------------------------------------------|---------|-----------------|-----------|-------------|-------------------------------|---------------|-------------|-----|-----------|--------------|
| Batch B141845 - SW-846 5035 | | | | | | | | | | |
| Blank (B141845-BLK1) | | | | | Prepared & Analyzed: 02/10/16 | | | | | |
| Methylene Chloride | ND | 0.020 | mg/Kg wet | | | | | | | |
| 4-Methyl-2-pentanone (MIBK) | ND | 0.020 | mg/Kg wet | | | | | | | |
| Naphthalene | ND | 0.0040 | mg/Kg wet | | | | | | | |
| 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 | 0.0020 | mg/Kg wet | | | | | | | |
| Tetrachloroethylene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| Tetrahydrofuran | ND | 0.010 | mg/Kg wet | | | | | | | |
| Toluene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| 1,3,5-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 | | | | | | | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | ND | 0.010 | 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 | 0.0377 | | mg/Kg wet | 0.0500 | | 75.4 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.0469 | | mg/Kg wet | 0.0500 | | 93.8 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.0497 | | mg/Kg wet | 0.0500 | | 99.4 | 70-130 | | | |
| LCS (B141845-BS1) | | | | | Prepared & Analyzed: 02/10/16 | | | | | |
| Acetone | 0.160 | 0.10 | mg/Kg wet | 0.200 | | 80.0 | 70-160 | | | † |
| Acrylonitrile | 0.0181 | 0.0060 | mg/Kg wet | 0.0200 | | 90.6 | 70-130 | | | |
| tert-Amyl Methyl Ether (TAME) | 0.0172 | 0.0010 | mg/Kg wet | 0.0200 | | 85.9 | 70-130 | | | |
| Benzene | 0.0199 | 0.0020 | mg/Kg wet | 0.0200 | | 99.4 | 70-130 | | | |
| Bromobenzene | 0.0210 | 0.0020 | mg/Kg wet | 0.0200 | | 105 | 70-130 | | | |
| Bromochloromethane | 0.0171 | 0.0020 | mg/Kg wet | 0.0200 | | 85.4 | 70-130 | | | |
| Bromodichloromethane | 0.0168 | 0.0020 | mg/Kg wet | 0.0200 | | 83.8 | 70-130 | | | |
| Bromoform | 0.0248 | 0.0020 | mg/Kg wet | 0.0200 | | 124 | 70-130 | | | V-20 |
| Bromomethane | 0.00394 | 0.010 | mg/Kg wet | 0.0200 | | 19.7 * | 40-130 | | | L-04, V-05 † |
| 2-Butanone (MEK) | 0.155 | 0.040 | mg/Kg wet | 0.200 | | 77.6 | 70-160 | | | † |
| tert-Butyl Alcohol (TBA) | 0.212 | 0.040 | mg/Kg wet | 0.200 | | 106 | 40-130 | | | † |
| n-Butylbenzene | 0.0216 | 0.0020 | mg/Kg wet | 0.0200 | | 108 | 70-130 | | | |
| sec-Butylbenzene | 0.0232 | 0.0020 | mg/Kg wet | 0.0200 | | 116 | 70-130 | | | |
| tert-Butylbenzene | 0.0222 | 0.0020 | mg/Kg wet | 0.0200 | | 111 | 70-160 | | | † |
| tert-Butyl Ethyl Ether (TBEE) | 0.0180 | 0.0010 | mg/Kg wet | 0.0200 | | 89.8 | 70-130 | | | |
| Carbon Disulfide | 0.0126 | 0.010 | mg/Kg wet | 0.0200 | | 62.9 * | 70-130 | | | L-04 |
| Carbon Tetrachloride | 0.0171 | 0.0020 | mg/Kg wet | 0.0200 | | 85.6 | 70-130 | | | |
| Chlorobenzene | 0.0207 | 0.0020 | mg/Kg wet | 0.0200 | | 104 | 70-130 | | | |
| Chlorodibromomethane | 0.0188 | 0.0010 | mg/Kg wet | 0.0200 | | 94.2 | 70-130 | | | |
| Chloroethane | 0.0161 | 0.020 | mg/Kg wet | 0.0200 | | 80.6 | 70-130 | | | R-05 |
| Chloroform | 0.0180 | 0.0040 | mg/Kg wet | 0.0200 | | 90.0 | 70-130 | | | |
| Chloromethane | 0.0136 | 0.010 | mg/Kg wet | 0.0200 | | 68.1 * | 70-130 | | | L-04 |
| 2-Chlorotoluene | 0.0218 | 0.0020 | mg/Kg wet | 0.0200 | | 109 | 70-130 | | | |

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

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------------------------------------------------|---------|-----------------|-----------|-------------|---------------|------|-------------|-----|-----------|-------|
| Batch B141845 - SW-846 5035 | | | | | | | | | | |
| LCS (B141845-BS1) | | | | | | | | | | |
| Prepared & Analyzed: 02/10/16 | | | | | | | | | | |
| 4-Chlorotoluene | 0.0209 | 0.0020 | mg/Kg wet | 0.0200 | | 105 | 70-130 | | | |
| 1,2-Dibromo-3-chloropropane (DBCP) | 0.0180 | 0.0020 | mg/Kg wet | 0.0200 | | 89.9 | 70-130 | | | |
| 1,2-Dibromoethane (EDB) | 0.0199 | 0.0010 | mg/Kg wet | 0.0200 | | 99.5 | 70-130 | | | |
| Dibromomethane | 0.0182 | 0.0020 | mg/Kg wet | 0.0200 | | 91.0 | 70-130 | | | |
| 1,2-Dichlorobenzene | 0.0210 | 0.0020 | mg/Kg wet | 0.0200 | | 105 | 70-130 | | | |
| 1,3-Dichlorobenzene | 0.0221 | 0.0020 | mg/Kg wet | 0.0200 | | 111 | 70-130 | | | |
| 1,4-Dichlorobenzene | 0.0193 | 0.0020 | mg/Kg wet | 0.0200 | | 96.6 | 70-130 | | | |
| trans-1,4-Dichloro-2-butene | 0.0171 | 0.0040 | mg/Kg wet | 0.0200 | | 85.7 | 70-130 | | | |
| Dichlorodifluoromethane (Freon 12) | 0.00902 | 0.020 | mg/Kg wet | 0.0200 | | 45.1 | 40-160 | | | † |
| 1,1-Dichloroethane | 0.0201 | 0.0020 | mg/Kg wet | 0.0200 | | 101 | 70-130 | | | |
| 1,2-Dichloroethane | 0.0156 | 0.0020 | mg/Kg wet | 0.0200 | | 77.9 | 70-130 | | | |
| 1,1-Dichloroethylene | 0.0177 | 0.0040 | mg/Kg wet | 0.0200 | | 88.4 | 70-130 | | | |
| cis-1,2-Dichloroethylene | 0.0171 | 0.0020 | mg/Kg wet | 0.0200 | | 85.7 | 70-130 | | | |
| trans-1,2-Dichloroethylene | 0.0186 | 0.0020 | mg/Kg wet | 0.0200 | | 92.8 | 70-130 | | | |
| 1,2-Dichloropropane | 0.0183 | 0.0020 | mg/Kg wet | 0.0200 | | 91.4 | 70-130 | | | |
| 1,3-Dichloropropane | 0.0171 | 0.0010 | mg/Kg wet | 0.0200 | | 85.6 | 70-130 | | | |
| 2,2-Dichloropropane | 0.0176 | 0.0020 | mg/Kg wet | 0.0200 | | 88.1 | 70-130 | | | |
| 1,1-Dichloropropene | 0.0180 | 0.0020 | mg/Kg wet | 0.0200 | | 90.2 | 70-130 | | | |
| cis-1,3-Dichloropropene | 0.0166 | 0.0010 | mg/Kg wet | 0.0200 | | 83.0 | 70-130 | | | |
| trans-1,3-Dichloropropene | 0.0190 | 0.0010 | mg/Kg wet | 0.0200 | | 94.8 | 70-130 | | | |
| Diethyl Ether | 0.0182 | 0.020 | mg/Kg wet | 0.0200 | | 91.0 | 70-130 | | | |
| Diisopropyl Ether (DIPE) | 0.0177 | 0.0010 | mg/Kg wet | 0.0200 | | 88.3 | 70-130 | | | |
| 1,4-Dioxane | 0.201 | 0.10 | mg/Kg wet | 0.200 | | 100 | 40-160 | | | † |
| Ethylbenzene | 0.0220 | 0.0020 | mg/Kg wet | 0.0200 | | 110 | 70-130 | | | |
| Hexachlorobutadiene | 0.0240 | 0.0020 | mg/Kg wet | 0.0200 | | 120 | 70-160 | | | |
| 2-Hexanone (MBK) | 0.149 | 0.020 | mg/Kg wet | 0.200 | | 74.6 | 70-160 | | | † |
| Isopropylbenzene (Cumene) | 0.0236 | 0.0020 | mg/Kg wet | 0.0200 | | 118 | 70-130 | | | |
| p-Isopropyltoluene (p-Cymene) | 0.0227 | 0.0020 | mg/Kg wet | 0.0200 | | 114 | 70-130 | | | |
| Methyl tert-Butyl Ether (MTBE) | 0.0182 | 0.0040 | mg/Kg wet | 0.0200 | | 90.9 | 70-130 | | | |
| Methylene Chloride | 0.0160 | 0.020 | mg/Kg wet | 0.0200 | | 79.8 | 40-160 | | | † |
| 4-Methyl-2-pentanone (MIBK) | 0.157 | 0.020 | mg/Kg wet | 0.200 | | 78.6 | 70-160 | | | † |
| Naphthalene | 0.0219 | 0.0040 | mg/Kg wet | 0.0200 | | 109 | 40-130 | | | † |
| n-Propylbenzene | 0.0227 | 0.0020 | mg/Kg wet | 0.0200 | | 114 | 70-130 | | | |
| Styrene | 0.0236 | 0.0020 | mg/Kg wet | 0.0200 | | 118 | 70-130 | | | |
| 1,1,1,2-Tetrachloroethane | 0.0206 | 0.0020 | mg/Kg wet | 0.0200 | | 103 | 70-130 | | | |
| 1,1,2,2-Tetrachloroethane | 0.0182 | 0.0020 | mg/Kg wet | 0.0200 | | 91.2 | 70-130 | | | |
| Tetrachloroethylene | 0.0183 | 0.0020 | mg/Kg wet | 0.0200 | | 91.7 | 70-130 | | | |
| Tetrahydrofuran | 0.0166 | 0.010 | mg/Kg wet | 0.0200 | | 83.2 | 70-130 | | | |
| Toluene | 0.0175 | 0.0020 | mg/Kg wet | 0.0200 | | 87.7 | 70-130 | | | |
| 1,2,3-Trichlorobenzene | 0.0228 | 0.0020 | mg/Kg wet | 0.0200 | | 114 | 70-130 | | | |
| 1,2,4-Trichlorobenzene | 0.0227 | 0.0020 | mg/Kg wet | 0.0200 | | 113 | 70-130 | | | |
| 1,3,5-Trichlorobenzene | 0.0218 | 0.0020 | mg/Kg wet | 0.0200 | | 109 | 70-130 | | | |
| 1,1,1-Trichloroethane | 0.0145 | 0.0020 | mg/Kg wet | 0.0200 | | 72.4 | 70-130 | | | |
| 1,1,2-Trichloroethane | 0.0188 | 0.0020 | mg/Kg wet | 0.0200 | | 94.1 | 70-130 | | | |
| Trichloroethylene | 0.0196 | 0.0020 | mg/Kg wet | 0.0200 | | 98.0 | 70-130 | | | |
| Trichlorofluoromethane (Freon 11) | 0.0170 | 0.010 | mg/Kg wet | 0.0200 | | 85.2 | 70-130 | | | |
| 1,2,3-Trichloropropane | 0.0188 | 0.0020 | mg/Kg wet | 0.0200 | | 94.0 | 70-130 | | | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | 0.0188 | 0.010 | mg/Kg wet | 0.0200 | | 94.2 | 70-130 | | | |
| 1,2,4-Trimethylbenzene | 0.0210 | 0.0020 | mg/Kg wet | 0.0200 | | 105 | 70-130 | | | |
| 1,3,5-Trimethylbenzene | 0.0235 | 0.0020 | mg/Kg wet | 0.0200 | | 118 | 70-130 | | | |
| Vinyl Chloride | 0.0134 | 0.010 | mg/Kg wet | 0.0200 | | 67.1 | 40-130 | | | † |

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

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|------------------------------------|---------|-----------------|-----------|-------------|---------------|---------------|-------------|---------------|-----------|--------------|
| Batch B141845 - SW-846 5035 | | | | | | | | | | |
| LCS (B141845-BS1) | | | | | | | | | | |
| Prepared & Analyzed: 02/10/16 | | | | | | | | | | |
| m+p Xylene | 0.0419 | 0.0040 | mg/Kg wet | 0.0400 | | 105 | 70-130 | | | |
| o-Xylene | 0.0213 | 0.0020 | mg/Kg wet | 0.0200 | | 106 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0388 | | mg/Kg wet | 0.0500 | | 77.7 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.0447 | | mg/Kg wet | 0.0500 | | 89.4 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.0498 | | mg/Kg wet | 0.0500 | | 99.5 | 70-130 | | | |
| LCS Dup (B141845-BSD1) | | | | | | | | | | |
| Prepared & Analyzed: 02/10/16 | | | | | | | | | | |
| Acetone | 0.157 | 0.10 | mg/Kg wet | 0.200 | | 78.7 | 70-160 | 1.66 | 25 | † |
| Acrylonitrile | 0.0168 | 0.0060 | mg/Kg wet | 0.0200 | | 84.0 | 70-130 | 7.56 | 25 | |
| tert-Amyl Methyl Ether (TAME) | 0.0167 | 0.0010 | mg/Kg wet | 0.0200 | | 83.5 | 70-130 | 2.83 | 25 | |
| Benzene | 0.0191 | 0.0020 | mg/Kg wet | 0.0200 | | 95.3 | 70-130 | 4.21 | 25 | |
| Bromobenzene | 0.0209 | 0.0020 | mg/Kg wet | 0.0200 | | 104 | 70-130 | 0.763 | 25 | |
| Bromochloromethane | 0.0167 | 0.0020 | mg/Kg wet | 0.0200 | | 83.6 | 70-130 | 2.13 | 25 | |
| Bromodichloromethane | 0.0165 | 0.0020 | mg/Kg wet | 0.0200 | | 82.7 | 70-130 | 1.32 | 25 | |
| Bromoform | 0.0240 | 0.0020 | mg/Kg wet | 0.0200 | | 120 | 70-130 | 3.28 | 25 | V-20 |
| Bromomethane | 0.00490 | 0.010 | mg/Kg wet | 0.0200 | | 24.5 * | 40-130 | 21.7 | 25 | L-04, V-05 † |
| 2-Butanone (MEK) | 0.148 | 0.040 | mg/Kg wet | 0.200 | | 74.0 | 70-160 | 4.80 | 25 | † |
| tert-Butyl Alcohol (TBA) | 0.201 | 0.040 | mg/Kg wet | 0.200 | | 101 | 40-130 | 5.21 | 25 | † |
| n-Butylbenzene | 0.0213 | 0.0020 | mg/Kg wet | 0.0200 | | 107 | 70-130 | 1.12 | 25 | |
| sec-Butylbenzene | 0.0228 | 0.0020 | mg/Kg wet | 0.0200 | | 114 | 70-130 | 1.65 | 25 | |
| tert-Butylbenzene | 0.0218 | 0.0020 | mg/Kg wet | 0.0200 | | 109 | 70-160 | 1.81 | 25 | † |
| tert-Butyl Ethyl Ether (TBEE) | 0.0172 | 0.0010 | mg/Kg wet | 0.0200 | | 85.9 | 70-130 | 4.44 | 25 | |
| Carbon Disulfide | 0.0122 | 0.010 | mg/Kg wet | 0.0200 | | 60.8 * | 70-130 | 3.40 | 25 | L-04 |
| Carbon Tetrachloride | 0.0158 | 0.0020 | mg/Kg wet | 0.0200 | | 78.9 | 70-130 | 8.15 | 25 | |
| Chlorobenzene | 0.0206 | 0.0020 | mg/Kg wet | 0.0200 | | 103 | 70-130 | 0.484 | 25 | |
| Chlorodibromomethane | 0.0186 | 0.0010 | mg/Kg wet | 0.0200 | | 92.8 | 70-130 | 1.50 | 25 | |
| Chloroethane | 0.00630 | 0.020 | mg/Kg wet | 0.0200 | | 31.5 * | 70-130 | 87.6 * | 25 | L-07A, R-05 |
| Chloroform | 0.0171 | 0.0040 | mg/Kg wet | 0.0200 | | 85.4 | 70-130 | 5.25 | 25 | |
| Chloromethane | 0.0137 | 0.010 | mg/Kg wet | 0.0200 | | 68.5 * | 70-130 | 0.586 | 25 | L-04 |
| 2-Chlorotoluene | 0.0217 | 0.0020 | mg/Kg wet | 0.0200 | | 109 | 70-130 | 0.368 | 25 | |
| 4-Chlorotoluene | 0.0209 | 0.0020 | mg/Kg wet | 0.0200 | | 104 | 70-130 | 0.191 | 25 | |
| 1,2-Dibromo-3-chloropropane (DBCP) | 0.0169 | 0.0020 | mg/Kg wet | 0.0200 | | 84.6 | 70-130 | 6.07 | 25 | |
| 1,2-Dibromoethane (EDB) | 0.0199 | 0.0010 | mg/Kg wet | 0.0200 | | 99.4 | 70-130 | 0.101 | 25 | |
| Dibromomethane | 0.0184 | 0.0020 | mg/Kg wet | 0.0200 | | 92.0 | 70-130 | 1.09 | 25 | |
| 1,2-Dichlorobenzene | 0.0209 | 0.0020 | mg/Kg wet | 0.0200 | | 105 | 70-130 | 0.476 | 25 | |
| 1,3-Dichlorobenzene | 0.0222 | 0.0020 | mg/Kg wet | 0.0200 | | 111 | 70-130 | 0.0903 | 25 | |
| 1,4-Dichlorobenzene | 0.0188 | 0.0020 | mg/Kg wet | 0.0200 | | 94.2 | 70-130 | 2.52 | 25 | |
| trans-1,4-Dichloro-2-butene | 0.0180 | 0.0040 | mg/Kg wet | 0.0200 | | 89.8 | 70-130 | 4.67 | 25 | |
| Dichlorodifluoromethane (Freon 12) | 0.00876 | 0.020 | mg/Kg wet | 0.0200 | | 43.8 | 40-160 | 2.92 | 25 | † |
| 1,1-Dichloroethane | 0.0189 | 0.0020 | mg/Kg wet | 0.0200 | | 94.4 | 70-130 | 6.36 | 25 | |
| 1,2-Dichloroethane | 0.0153 | 0.0020 | mg/Kg wet | 0.0200 | | 76.5 | 70-130 | 1.81 | 25 | |
| 1,1-Dichloroethylene | 0.0177 | 0.0040 | mg/Kg wet | 0.0200 | | 88.3 | 70-130 | 0.113 | 25 | |
| cis-1,2-Dichloroethylene | 0.0162 | 0.0020 | mg/Kg wet | 0.0200 | | 81.1 | 70-130 | 5.52 | 25 | |
| trans-1,2-Dichloroethylene | 0.0181 | 0.0020 | mg/Kg wet | 0.0200 | | 90.6 | 70-130 | 2.40 | 25 | |
| 1,2-Dichloropropane | 0.0181 | 0.0020 | mg/Kg wet | 0.0200 | | 90.3 | 70-130 | 1.21 | 25 | |
| 1,3-Dichloropropane | 0.0168 | 0.0010 | mg/Kg wet | 0.0200 | | 83.9 | 70-130 | 2.01 | 25 | |
| 2,2-Dichloropropane | 0.0169 | 0.0020 | mg/Kg wet | 0.0200 | | 84.3 | 70-130 | 4.41 | 25 | |
| 1,1-Dichloropropene | 0.0177 | 0.0020 | mg/Kg wet | 0.0200 | | 88.3 | 70-130 | 2.13 | 25 | |
| cis-1,3-Dichloropropene | 0.0165 | 0.0010 | mg/Kg wet | 0.0200 | | 82.7 | 70-130 | 0.362 | 25 | |
| trans-1,3-Dichloropropene | 0.0187 | 0.0010 | mg/Kg wet | 0.0200 | | 93.5 | 70-130 | 1.38 | 25 | |
| Diethyl Ether | 0.0178 | 0.020 | mg/Kg wet | 0.0200 | | 89.1 | 70-130 | 2.11 | 25 | |
| Diisopropyl Ether (DIPE) | 0.0172 | 0.0010 | mg/Kg wet | 0.0200 | | 85.9 | 70-130 | 2.76 | 25 | |

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

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------------------------------------------------|--------|-----------------|-----------|-------------|---------------|-------------|-------------|-------|-----------|-------|
| Batch B141845 - SW-846 5035 | | | | | | | | | | |
| LCS Dup (B141845-BSD1) | | | | | | | | | | |
| Prepared & Analyzed: 02/10/16 | | | | | | | | | | |
| 1,4-Dioxane | 0.194 | 0.10 | mg/Kg wet | 0.200 | | 96.9 | 40-160 | 3.50 | 50 | † ‡ |
| Ethylbenzene | 0.0216 | 0.0020 | mg/Kg wet | 0.0200 | | 108 | 70-130 | 1.65 | 25 | |
| Hexachlorobutadiene | 0.0233 | 0.0020 | mg/Kg wet | 0.0200 | | 117 | 70-160 | 2.79 | 25 | |
| 2-Hexanone (MBK) | 0.148 | 0.020 | mg/Kg wet | 0.200 | | 73.9 | 70-160 | 1.01 | 25 | † |
| Isopropylbenzene (Cumene) | 0.0231 | 0.0020 | mg/Kg wet | 0.0200 | | 116 | 70-130 | 2.06 | 25 | |
| p-Isopropyltoluene (p-Cymene) | 0.0225 | 0.0020 | mg/Kg wet | 0.0200 | | 112 | 70-130 | 1.15 | 25 | |
| Methyl tert-Butyl Ether (MTBE) | 0.0174 | 0.0040 | mg/Kg wet | 0.0200 | | 87.0 | 70-130 | 4.38 | 25 | |
| Methylene Chloride | 0.0148 | 0.020 | mg/Kg wet | 0.0200 | | 73.9 | 40-160 | 7.68 | 25 | † |
| 4-Methyl-2-pentanone (MIBK) | 0.155 | 0.020 | mg/Kg wet | 0.200 | | 77.3 | 70-160 | 1.63 | 25 | † |
| Naphthalene | 0.0211 | 0.0040 | mg/Kg wet | 0.0200 | | 106 | 40-130 | 3.54 | 25 | † |
| n-Propylbenzene | 0.0224 | 0.0020 | mg/Kg wet | 0.0200 | | 112 | 70-130 | 1.24 | 25 | |
| Styrene | 0.0229 | 0.0020 | mg/Kg wet | 0.0200 | | 114 | 70-130 | 2.93 | 25 | |
| 1,1,1,2-Tetrachloroethane | 0.0201 | 0.0020 | mg/Kg wet | 0.0200 | | 101 | 70-130 | 2.16 | 25 | |
| 1,1,2,2-Tetrachloroethane | 0.0180 | 0.0020 | mg/Kg wet | 0.0200 | | 90.1 | 70-130 | 1.21 | 25 | |
| Tetrachloroethylene | 0.0178 | 0.0020 | mg/Kg wet | 0.0200 | | 89.1 | 70-130 | 2.88 | 25 | |
| Tetrahydrofuran | 0.0161 | 0.010 | mg/Kg wet | 0.0200 | | 80.5 | 70-130 | 3.30 | 25 | |
| Toluene | 0.0172 | 0.0020 | mg/Kg wet | 0.0200 | | 86.2 | 70-130 | 1.73 | 25 | |
| 1,2,3-Trichlorobenzene | 0.0220 | 0.0020 | mg/Kg wet | 0.0200 | | 110 | 70-130 | 3.57 | 25 | |
| 1,2,4-Trichlorobenzene | 0.0218 | 0.0020 | mg/Kg wet | 0.0200 | | 109 | 70-130 | 3.77 | 25 | |
| 1,3,5-Trichlorobenzene | 0.0216 | 0.0020 | mg/Kg wet | 0.0200 | | 108 | 70-130 | 1.01 | 25 | |
| 1,1,1-Trichloroethane | 0.0135 | 0.0020 | mg/Kg wet | 0.0200 | | 67.4 | * 70-130 | 7.15 | 25 | L-07 |
| 1,1,2-Trichloroethane | 0.0185 | 0.0020 | mg/Kg wet | 0.0200 | | 92.7 | 70-130 | 1.50 | 25 | |
| Trichloroethylene | 0.0186 | 0.0020 | mg/Kg wet | 0.0200 | | 93.2 | 70-130 | 5.02 | 25 | |
| Trichlorofluoromethane (Freon 11) | 0.0164 | 0.010 | mg/Kg wet | 0.0200 | | 81.9 | 70-130 | 3.95 | 25 | |
| 1,2,3-Trichloropropane | 0.0188 | 0.0020 | mg/Kg wet | 0.0200 | | 93.8 | 70-130 | 0.213 | 25 | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | 0.0186 | 0.010 | mg/Kg wet | 0.0200 | | 92.8 | 70-130 | 1.50 | 25 | |
| 1,2,4-Trimethylbenzene | 0.0206 | 0.0020 | mg/Kg wet | 0.0200 | | 103 | 70-130 | 1.82 | 25 | |
| 1,3,5-Trimethylbenzene | 0.0235 | 0.0020 | mg/Kg wet | 0.0200 | | 117 | 70-130 | 0.255 | 25 | |
| Vinyl Chloride | 0.0129 | 0.010 | mg/Kg wet | 0.0200 | | 64.3 | 40-130 | 4.26 | 25 | † |
| m+p Xylene | 0.0414 | 0.0040 | mg/Kg wet | 0.0400 | | 103 | 70-130 | 1.25 | 25 | |
| o-Xylene | 0.0210 | 0.0020 | mg/Kg wet | 0.0200 | | 105 | 70-130 | 1.52 | 25 | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0373 | | mg/Kg wet | 0.0500 | | 74.6 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.0446 | | mg/Kg wet | 0.0500 | | 89.1 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.0501 | | mg/Kg wet | 0.0500 | | 100 | 70-130 | | | |

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

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

Batch B141843 - SW-846 3546

Blank (B141843-BLK1)

Prepared: 02/10/16 Analyzed: 02/11/16

| | | | | | | | | | | |
|---------------------------------------|----|------|-----------|--|--|--|--|--|--|------------------|
| 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 | | | | | | | |
| Benzidine | ND | 0.66 | mg/Kg wet | | | | | | | V-04, V-05 |
| 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-20 |
| Benzo(k)fluoranthene | ND | 0.17 | mg/Kg wet | | | | | | | |
| Benzoic Acid | ND | 1.0 | mg/Kg wet | | | | | | | L-04 |
| 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 | 0.34 | mg/Kg wet | | | | | | | |
| Carbazole | ND | 0.17 | mg/Kg wet | | | | | | | |
| 4-Chloroaniline | ND | 0.66 | mg/Kg wet | | | | | | | |
| 4-Chloro-3-methylphenol | ND | 0.66 | mg/Kg wet | | | | | | | |
| 2-Chloronaphthalene | ND | 0.34 | mg/Kg wet | | | | | | | |
| 2-Chlorophenol | ND | 0.34 | mg/Kg wet | | | | | | | |
| 4-Chlorophenylphenylether | 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 | 0.34 | mg/Kg wet | | | | | | | |
| 4,6-Dinitro-2-methylphenol | ND | 0.34 | mg/Kg wet | | | | | | | |
| 2,4-Dinitrophenol | ND | 0.66 | mg/Kg wet | | | | | | | L-04, R-05, V-20 |
| 2,4-Dinitrotoluene | ND | 0.34 | mg/Kg wet | | | | | | | |
| 2,6-Dinitrotoluene | ND | 0.34 | mg/Kg wet | | | | | | | V-20 |
| Di-n-octylphthalate | ND | 0.34 | 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 | | | | | | | |
| Hexachlorocyclopentadiene | 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 | | | | | | | |
| 1-Methylnaphthalene | ND | 0.17 | mg/Kg wet | | | | | | | |
| 2-Methylnaphthalene | ND | 0.17 | mg/Kg wet | | | | | | | |

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------------------------------------|--------|-----------------|-----------|-------------|---------------|-------------|-------------|-----|-----------|------------|
| Batch B141843 - SW-846 3546 | | | | | | | | | | |
| Blank (B141843-BLK1) | | | | | | | | | | |
| Prepared: 02/10/16 Analyzed: 02/11/16 | | | | | | | | | | |
| 2-Methylphenol | ND | 0.34 | mg/Kg wet | | | | | | | |
| 3/4-Methylphenol | ND | 0.34 | mg/Kg wet | | | | | | | |
| Naphthalene | ND | 0.17 | mg/Kg wet | | | | | | | |
| 2-Nitroaniline | ND | 0.34 | mg/Kg wet | | | | | | | |
| 3-Nitroaniline | ND | 0.34 | mg/Kg wet | | | | | | | V-20 |
| 4-Nitroaniline | ND | 0.34 | mg/Kg wet | | | | | | | V-20 |
| Nitrobenzene | ND | 0.34 | mg/Kg wet | | | | | | | |
| 2-Nitrophenol | ND | 0.34 | mg/Kg wet | | | | | | | V-20 |
| 4-Nitrophenol | ND | 0.66 | mg/Kg wet | | | | | | | |
| N-Nitrosodimethylamine | ND | 0.34 | mg/Kg wet | | | | | | | |
| N-Nitrosodiphenylamine | ND | 0.34 | mg/Kg wet | | | | | | | |
| N-Nitrosodi-n-propylamine | ND | 0.34 | mg/Kg wet | | | | | | | |
| Pentachloronitrobenzene | ND | 0.34 | mg/Kg wet | | | | | | | V-16 |
| Pentachlorophenol | ND | 0.34 | mg/Kg wet | | | | | | | |
| Phenanthrene | ND | 0.17 | mg/Kg wet | | | | | | | |
| Phenol | ND | 0.34 | mg/Kg wet | | | | | | | |
| Pyrene | ND | 0.17 | mg/Kg wet | | | | | | | |
| Pyridine | ND | 0.34 | mg/Kg wet | | | | | | | |
| 1,2,4,5-Tetrachlorobenzene | ND | 0.34 | 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 | 5.77 | | mg/Kg wet | 6.67 | | 86.5 | 30-130 | | | |
| Surrogate: Phenol-d6 | 6.40 | | mg/Kg wet | 6.67 | | 95.9 | 30-130 | | | |
| Surrogate: Nitrobenzene-d5 | 2.94 | | mg/Kg wet | 3.33 | | 88.4 | 30-130 | | | |
| Surrogate: 2-Fluorobiphenyl | 3.13 | | mg/Kg wet | 3.33 | | 93.9 | 30-130 | | | |
| Surrogate: 2,4,6-Tribromophenol | 6.13 | | mg/Kg wet | 6.67 | | 91.9 | 30-130 | | | |
| Surrogate: p-Terphenyl-d14 | 3.93 | | mg/Kg wet | 3.33 | | 118 | 30-130 | | | |
| LCS (B141843-BS1) | | | | | | | | | | |
| Prepared: 02/10/16 Analyzed: 02/11/16 | | | | | | | | | | |
| Acenaphthene | 1.70 | 0.17 | mg/Kg wet | 1.67 | | 102 | 40-140 | | | |
| Acenaphthylene | 1.78 | 0.17 | mg/Kg wet | 1.67 | | 107 | 40-140 | | | |
| Acetophenone | 1.67 | 0.34 | mg/Kg wet | 1.67 | | 100 | 40-140 | | | |
| Aniline | 0.824 | 0.34 | mg/Kg wet | 1.67 | | 49.4 | 10-140 | | | † |
| Anthracene | 1.77 | 0.17 | mg/Kg wet | 1.67 | | 106 | 40-140 | | | |
| Benzidine | 1.11 | 0.66 | mg/Kg wet | 1.67 | | 66.6 | 40-140 | | | V-04, V-05 |
| Benzo(a)anthracene | 1.80 | 0.17 | mg/Kg wet | 1.67 | | 108 | 40-140 | | | |
| Benzo(a)pyrene | 1.86 | 0.17 | mg/Kg wet | 1.67 | | 112 | 40-140 | | | |
| Benzo(b)fluoranthene | 1.83 | 0.17 | mg/Kg wet | 1.67 | | 110 | 40-140 | | | |
| Benzo(g,h,i)perylene | 2.10 | 0.17 | mg/Kg wet | 1.67 | | 126 | 40-140 | | | V-20 |
| Benzo(k)fluoranthene | 1.79 | 0.17 | mg/Kg wet | 1.67 | | 108 | 40-140 | | | |
| Benzoic Acid | 0.230 | 1.0 | mg/Kg wet | 1.67 | | 13.8 | * 30-130 | | | L-04 |
| Bis(2-chloroethoxy)methane | 1.83 | 0.34 | mg/Kg wet | 1.67 | | 110 | 40-140 | | | |
| Bis(2-chloroethyl)ether | 1.78 | 0.34 | mg/Kg wet | 1.67 | | 107 | 40-140 | | | |
| Bis(2-chloroisopropyl)ether | 1.58 | 0.34 | mg/Kg wet | 1.67 | | 94.7 | 40-140 | | | |
| Bis(2-Ethylhexyl)phthalate | 1.83 | 0.34 | mg/Kg wet | 1.67 | | 110 | 40-140 | | | |
| 4-Bromophenylphenylether | 1.91 | 0.34 | mg/Kg wet | 1.67 | | 114 | 40-140 | | | |
| Butylbenzylphthalate | 1.96 | 0.34 | mg/Kg wet | 1.67 | | 117 | 40-140 | | | |
| Carbazole | 1.77 | 0.17 | mg/Kg wet | 1.67 | | 106 | 40-140 | | | |
| 4-Chloroaniline | 0.867 | 0.66 | mg/Kg wet | 1.67 | | 52.0 | 10-140 | | | † |
| 4-Chloro-3-methylphenol | 1.76 | 0.66 | mg/Kg wet | 1.67 | | 105 | 30-130 | | | |
| 2-Chloronaphthalene | 1.66 | 0.34 | mg/Kg wet | 1.67 | | 99.4 | 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 B141843 - SW-846 3546 | | | | | | | | | | |
| LCS (B141843-BS1) | | | | | | | | | | |
| | | | | | Prepared: 02/10/16 Analyzed: 02/11/16 | | | | | |
| 2-Chlorophenol | 1.75 | 0.34 | mg/Kg wet | 1.67 | | 105 | 30-130 | | | |
| 4-Chlorophenylphenylether | 1.88 | 0.34 | mg/Kg wet | 1.67 | | 113 | 40-140 | | | |
| Chrysene | 1.76 | 0.17 | mg/Kg wet | 1.67 | | 106 | 40-140 | | | |
| Dibenz(a,h)anthracene | 2.00 | 0.17 | mg/Kg wet | 1.67 | | 120 | 40-140 | | | |
| Dibenzofuran | 1.84 | 0.34 | mg/Kg wet | 1.67 | | 110 | 40-140 | | | |
| Di-n-butylphthalate | 1.78 | 0.34 | mg/Kg wet | 1.67 | | 107 | 40-140 | | | |
| 1,2-Dichlorobenzene | 1.50 | 0.34 | mg/Kg wet | 1.67 | | 90.0 | 40-140 | | | |
| 1,3-Dichlorobenzene | 1.44 | 0.34 | mg/Kg wet | 1.67 | | 86.5 | 40-140 | | | |
| 1,4-Dichlorobenzene | 1.45 | 0.34 | mg/Kg wet | 1.67 | | 87.2 | 40-140 | | | |
| 3,3-Dichlorobenzidine | 0.726 | 0.17 | mg/Kg wet | 1.67 | | 43.6 | 20-140 | | | † |
| 2,4-Dichlorophenol | 1.87 | 0.34 | mg/Kg wet | 1.67 | | 112 | 30-130 | | | |
| Diethylphthalate | 1.81 | 0.34 | mg/Kg wet | 1.67 | | 108 | 40-140 | | | |
| 2,4-Dimethylphenol | 1.66 | 0.34 | mg/Kg wet | 1.67 | | 99.8 | 30-130 | | | |
| Dimethylphthalate | 1.82 | 0.34 | mg/Kg wet | 1.67 | | 109 | 40-140 | | | |
| 4,6-Dinitro-2-methylphenol | 1.13 | 0.34 | mg/Kg wet | 1.67 | | 67.5 | 30-130 | | | |
| 2,4-Dinitrophenol | 0.362 | 0.66 | mg/Kg wet | 1.67 | | 21.7 | * 30-130 | | | L-04, R-05, V-20 |
| 2,4-Dinitrotoluene | 1.86 | 0.34 | mg/Kg wet | 1.67 | | 111 | 40-140 | | | |
| 2,6-Dinitrotoluene | 2.03 | 0.34 | mg/Kg wet | 1.67 | | 122 | 40-140 | | | V-20 |
| Di-n-octylphthalate | 1.80 | 0.34 | mg/Kg wet | 1.67 | | 108 | 40-140 | | | |
| 1,2-Diphenylhydrazine (as Azobenzene) | 1.62 | 0.34 | mg/Kg wet | 1.67 | | 97.1 | 40-140 | | | |
| Fluoranthene | 1.75 | 0.17 | mg/Kg wet | 1.67 | | 105 | 40-140 | | | |
| Fluorene | 1.82 | 0.17 | mg/Kg wet | 1.67 | | 110 | 40-140 | | | |
| Hexachlorobenzene | 1.81 | 0.34 | mg/Kg wet | 1.67 | | 108 | 40-140 | | | |
| Hexachlorobutadiene | 1.59 | 0.34 | mg/Kg wet | 1.67 | | 95.3 | 40-140 | | | |
| Hexachlorocyclopentadiene | 1.51 | 0.34 | mg/Kg wet | 1.67 | | 90.6 | 40-140 | | | |
| Hexachloroethane | 1.44 | 0.34 | mg/Kg wet | 1.67 | | 86.2 | 40-140 | | | |
| Indeno(1,2,3-cd)pyrene | 1.95 | 0.17 | mg/Kg wet | 1.67 | | 117 | 40-140 | | | |
| Isophorone | 1.71 | 0.34 | mg/Kg wet | 1.67 | | 102 | 40-140 | | | |
| 1-Methylnaphthalene | 1.65 | 0.17 | mg/Kg wet | 1.67 | | 99.3 | 40-140 | | | |
| 2-Methylnaphthalene | 1.77 | 0.17 | mg/Kg wet | 1.67 | | 106 | 40-140 | | | |
| 2-Methylphenol | 1.60 | 0.34 | mg/Kg wet | 1.67 | | 96.2 | 30-130 | | | |
| 3/4-Methylphenol | 1.72 | 0.34 | mg/Kg wet | 1.67 | | 103 | 30-130 | | | |
| Naphthalene | 1.64 | 0.17 | mg/Kg wet | 1.67 | | 98.3 | 40-140 | | | |
| 2-Nitroaniline | 1.82 | 0.34 | mg/Kg wet | 1.67 | | 109 | 40-140 | | | |
| 3-Nitroaniline | 1.80 | 0.34 | mg/Kg wet | 1.67 | | 108 | 30-140 | | | V-20 † |
| 4-Nitroaniline | 1.96 | 0.34 | mg/Kg wet | 1.67 | | 117 | 40-140 | | | V-20 |
| Nitrobenzene | 1.59 | 0.34 | mg/Kg wet | 1.67 | | 95.3 | 40-140 | | | |
| 2-Nitrophenol | 1.91 | 0.34 | mg/Kg wet | 1.67 | | 115 | 30-130 | | | V-20 |
| 4-Nitrophenol | 1.73 | 0.66 | mg/Kg wet | 1.67 | | 104 | 30-130 | | | |
| N-Nitrosodimethylamine | 1.61 | 0.34 | mg/Kg wet | 1.67 | | 96.4 | 40-140 | | | |
| N-Nitrosodiphenylamine | 2.16 | 0.34 | mg/Kg wet | 1.67 | | 129 | 40-140 | | | |
| N-Nitrosodi-n-propylamine | 1.60 | 0.34 | mg/Kg wet | 1.67 | | 95.8 | 40-140 | | | |
| Pentachloronitrobenzene | 2.12 | 0.34 | mg/Kg wet | 1.67 | | 127 | 40-140 | | | V-16 |
| Pentachlorophenol | 0.861 | 0.34 | mg/Kg wet | 1.67 | | 51.7 | 30-130 | | | |
| Phenanthrene | 1.80 | 0.17 | mg/Kg wet | 1.67 | | 108 | 40-140 | | | |
| Phenol | 1.74 | 0.34 | mg/Kg wet | 1.67 | | 104 | 30-130 | | | |
| Pyrene | 2.06 | 0.17 | mg/Kg wet | 1.67 | | 124 | 40-140 | | | |
| Pyridine | 1.06 | 0.34 | mg/Kg wet | 1.67 | | 63.7 | 30-140 | | | † |
| 1,2,4,5-Tetrachlorobenzene | 1.79 | 0.34 | mg/Kg wet | 1.67 | | 108 | 40-140 | | | |
| 1,2,4-Trichlorobenzene | 1.59 | 0.34 | mg/Kg wet | 1.67 | | 95.6 | 40-140 | | | |
| 2,4,5-Trichlorophenol | 1.80 | 0.34 | mg/Kg wet | 1.67 | | 108 | 30-130 | | | |
| 2,4,6-Trichlorophenol | 1.90 | 0.34 | mg/Kg wet | 1.67 | | 114 | 30-130 | | | |

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

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

Batch B141843 - SW-846 3546

LCS (B141843-BS1)

Prepared: 02/10/16 Analyzed: 02/11/16

| | | | | | | | | | | |
|-----------------------------------|------|--|-----------|------|--|--------------|--------|--|--|------|
| Surrogate: 2-Fluorophenol | 6.48 | | mg/Kg wet | 6.67 | | 97.2 | 30-130 | | | |
| Surrogate: Phenol-d6 | 7.27 | | mg/Kg wet | 6.67 | | 109 | 30-130 | | | |
| Surrogate: Nitrobenzene-d5 | 3.47 | | mg/Kg wet | 3.33 | | 104 | 30-130 | | | |
| Surrogate: 2-Fluorobiphenyl | 3.78 | | mg/Kg wet | 3.33 | | 114 | 30-130 | | | |
| Surrogate: 2,4,6-Tribromophenol | 8.53 | | mg/Kg wet | 6.67 | | 128 | 30-130 | | | |
| Surrogate: p-Terphenyl-d14 | 4.50 | | mg/Kg wet | 3.33 | | 135 * | 30-130 | | | S-07 |

LCS Dup (B141843-BSD1)

Prepared: 02/10/16 Analyzed: 02/11/16

| | | | | | | | | | | |
|---------------------------------------|-------|------|-----------|------|--|---------------|--------|---------------|----|------------------|
| Acenaphthene | 1.54 | 0.17 | mg/Kg wet | 1.67 | | 92.6 | 40-140 | 9.52 | 30 | |
| Acenaphthylene | 1.61 | 0.17 | mg/Kg wet | 1.67 | | 96.5 | 40-140 | 10.0 | 30 | |
| Acetophenone | 1.54 | 0.34 | mg/Kg wet | 1.67 | | 92.6 | 40-140 | 8.06 | 30 | |
| Aniline | 0.728 | 0.34 | mg/Kg wet | 1.67 | | 43.7 | 10-140 | 12.3 | 50 | † ‡ |
| Anthracene | 1.61 | 0.17 | mg/Kg wet | 1.67 | | 96.3 | 40-140 | 9.53 | 30 | |
| Benzidine | 0.981 | 0.66 | mg/Kg wet | 1.67 | | 58.9 | 40-140 | 12.4 | 30 | V-04, V-05 |
| Benzo(a)anthracene | 1.62 | 0.17 | mg/Kg wet | 1.67 | | 97.4 | 40-140 | 10.1 | 30 | |
| Benzo(a)pyrene | 1.69 | 0.17 | mg/Kg wet | 1.67 | | 101 | 40-140 | 9.80 | 30 | |
| Benzo(b)fluoranthene | 1.64 | 0.17 | mg/Kg wet | 1.67 | | 98.1 | 40-140 | 11.3 | 30 | |
| Benzo(g,h,i)perylene | 1.84 | 0.17 | mg/Kg wet | 1.67 | | 110 | 40-140 | 13.3 | 30 | V-20 |
| Benzo(k)fluoranthene | 1.61 | 0.17 | mg/Kg wet | 1.67 | | 96.7 | 40-140 | 10.7 | 30 | |
| Benzoic Acid | 0.209 | 1.0 | mg/Kg wet | 1.67 | | 12.5 * | 30-130 | 9.87 | 50 | L-04 ‡ |
| Bis(2-chloroethoxy)methane | 1.65 | 0.34 | mg/Kg wet | 1.67 | | 98.9 | 40-140 | 10.3 | 30 | |
| Bis(2-chloroethyl)ether | 1.59 | 0.34 | mg/Kg wet | 1.67 | | 95.4 | 40-140 | 11.1 | 30 | |
| Bis(2-chloroisopropyl)ether | 1.46 | 0.34 | mg/Kg wet | 1.67 | | 87.4 | 40-140 | 8.00 | 30 | |
| Bis(2-Ethylhexyl)phthalate | 1.64 | 0.34 | mg/Kg wet | 1.67 | | 98.1 | 40-140 | 11.5 | 30 | |
| 4-Bromophenylphenylether | 1.80 | 0.34 | mg/Kg wet | 1.67 | | 108 | 40-140 | 5.76 | 30 | |
| Butylbenzylphthalate | 1.73 | 0.34 | mg/Kg wet | 1.67 | | 104 | 40-140 | 12.1 | 30 | |
| Carbazole | 1.54 | 0.17 | mg/Kg wet | 1.67 | | 92.4 | 40-140 | 13.9 | 30 | |
| 4-Chloroaniline | 0.750 | 0.66 | mg/Kg wet | 1.67 | | 45.0 | 10-140 | 14.5 | 30 | † |
| 4-Chloro-3-methylphenol | 1.58 | 0.66 | mg/Kg wet | 1.67 | | 95.1 | 30-130 | 10.3 | 30 | |
| 2-Chloronaphthalene | 1.39 | 0.34 | mg/Kg wet | 1.67 | | 83.5 | 40-140 | 17.4 | 30 | |
| 2-Chlorophenol | 1.58 | 0.34 | mg/Kg wet | 1.67 | | 95.1 | 30-130 | 10.0 | 30 | |
| 4-Chlorophenylphenylether | 1.65 | 0.34 | mg/Kg wet | 1.67 | | 99.1 | 40-140 | 12.8 | 30 | |
| Chrysene | 1.58 | 0.17 | mg/Kg wet | 1.67 | | 94.8 | 40-140 | 10.9 | 30 | |
| Dibenz(a,h)anthracene | 1.74 | 0.17 | mg/Kg wet | 1.67 | | 104 | 40-140 | 13.7 | 30 | |
| Dibenzofuran | 1.64 | 0.34 | mg/Kg wet | 1.67 | | 98.4 | 40-140 | 11.3 | 30 | |
| Di-n-butylphthalate | 1.55 | 0.34 | mg/Kg wet | 1.67 | | 93.2 | 40-140 | 13.4 | 30 | |
| 1,2-Dichlorobenzene | 1.32 | 0.34 | mg/Kg wet | 1.67 | | 79.3 | 40-140 | 12.6 | 30 | |
| 1,3-Dichlorobenzene | 1.26 | 0.34 | mg/Kg wet | 1.67 | | 75.9 | 40-140 | 13.1 | 30 | |
| 1,4-Dichlorobenzene | 1.27 | 0.34 | mg/Kg wet | 1.67 | | 76.5 | 40-140 | 13.1 | 30 | |
| 3,3-Dichlorobenzidine | 0.648 | 0.17 | mg/Kg wet | 1.67 | | 38.9 | 20-140 | 11.4 | 50 | † ‡ |
| 2,4-Dichlorophenol | 1.72 | 0.34 | mg/Kg wet | 1.67 | | 103 | 30-130 | 8.49 | 30 | |
| Diethylphthalate | 1.54 | 0.34 | mg/Kg wet | 1.67 | | 92.5 | 40-140 | 15.8 | 30 | |
| 2,4-Dimethylphenol | 1.52 | 0.34 | mg/Kg wet | 1.67 | | 91.2 | 30-130 | 9.09 | 30 | |
| Dimethylphthalate | 1.60 | 0.34 | mg/Kg wet | 1.67 | | 96.3 | 40-140 | 12.7 | 30 | |
| 4,6-Dinitro-2-methylphenol | 0.986 | 0.34 | mg/Kg wet | 1.67 | | 59.2 | 30-130 | 13.2 | 30 | |
| 2,4-Dinitrophenol | 0.260 | 0.66 | mg/Kg wet | 1.67 | | 15.6 * | 30-130 | 32.7 * | 30 | L-04, R-05, V-20 |
| 2,4-Dinitrotoluene | 1.60 | 0.34 | mg/Kg wet | 1.67 | | 95.9 | 40-140 | 14.9 | 30 | |
| 2,6-Dinitrotoluene | 1.78 | 0.34 | mg/Kg wet | 1.67 | | 107 | 40-140 | 13.0 | 30 | V-20 |
| Di-n-octylphthalate | 1.63 | 0.34 | mg/Kg wet | 1.67 | | 97.9 | 40-140 | 9.92 | 30 | |
| 1,2-Diphenylhydrazine (as Azobenzene) | 1.52 | 0.34 | mg/Kg wet | 1.67 | | 91.5 | 40-140 | 6.00 | 30 | |
| Fluoranthene | 1.50 | 0.17 | mg/Kg wet | 1.67 | | 90.3 | 40-140 | 14.9 | 30 | |
| Fluorene | 1.60 | 0.17 | mg/Kg wet | 1.67 | | 95.9 | 40-140 | 13.3 | 30 | |

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

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 B141843 - SW-846 3546 | | | | | | | | | | |
| LCS Dup (B141843-BSD1) | | | | | | | | | | |
| | | | | | Prepared: 02/10/16 Analyzed: 02/11/16 | | | | | |
| Hexachlorobenzene | 1.68 | 0.34 | mg/Kg wet | 1.67 | | 101 | 40-140 | 7.09 | 30 | |
| Hexachlorobutadiene | 1.41 | 0.34 | mg/Kg wet | 1.67 | | 84.6 | 40-140 | 12.0 | 30 | |
| Hexachlorocyclopentadiene | 1.40 | 0.34 | mg/Kg wet | 1.67 | | 83.8 | 40-140 | 7.87 | 30 | |
| Hexachloroethane | 1.26 | 0.34 | mg/Kg wet | 1.67 | | 75.6 | 40-140 | 13.1 | 30 | |
| Indeno(1,2,3-cd)pyrene | 1.74 | 0.17 | mg/Kg wet | 1.67 | | 105 | 40-140 | 11.4 | 30 | |
| Isophorone | 1.56 | 0.34 | mg/Kg wet | 1.67 | | 93.6 | 40-140 | 9.08 | 30 | |
| 1-Methylnaphthalene | 1.50 | 0.17 | mg/Kg wet | 1.67 | | 90.1 | 40-140 | 9.72 | 30 | |
| 2-Methylnaphthalene | 1.60 | 0.17 | mg/Kg wet | 1.67 | | 96.0 | 40-140 | 10.1 | 30 | |
| 2-Methylphenol | 1.50 | 0.34 | mg/Kg wet | 1.67 | | 89.9 | 30-130 | 6.79 | 30 | |
| 3/4-Methylphenol | 1.60 | 0.34 | mg/Kg wet | 1.67 | | 96.3 | 30-130 | 6.63 | 30 | |
| Naphthalene | 1.48 | 0.17 | mg/Kg wet | 1.67 | | 88.8 | 40-140 | 10.1 | 30 | |
| 2-Nitroaniline | 1.76 | 0.34 | mg/Kg wet | 1.67 | | 105 | 40-140 | 3.86 | 30 | |
| 3-Nitroaniline | 1.55 | 0.34 | mg/Kg wet | 1.67 | | 93.1 | 30-140 | 15.0 | 30 | V-20 † |
| 4-Nitroaniline | 1.62 | 0.34 | mg/Kg wet | 1.67 | | 97.2 | 40-140 | 18.8 | 30 | V-20 |
| Nitrobenzene | 1.44 | 0.34 | mg/Kg wet | 1.67 | | 86.2 | 40-140 | 10.1 | 30 | |
| 2-Nitrophenol | 1.74 | 0.34 | mg/Kg wet | 1.67 | | 105 | 30-130 | 9.07 | 30 | V-20 |
| 4-Nitrophenol | 1.39 | 0.66 | mg/Kg wet | 1.67 | | 83.7 | 30-130 | 21.3 | 50 | ‡ |
| N-Nitrosodimethylamine | 1.38 | 0.34 | mg/Kg wet | 1.67 | | 82.7 | 40-140 | 15.3 | 30 | |
| N-Nitrosodiphenylamine | 2.00 | 0.34 | mg/Kg wet | 1.67 | | 120 | 40-140 | 7.37 | 30 | |
| N-Nitrosodi-n-propylamine | 1.48 | 0.34 | mg/Kg wet | 1.67 | | 88.9 | 40-140 | 7.41 | 30 | |
| Pentachloronitrobenzene | 1.90 | 0.34 | mg/Kg wet | 1.67 | | 114 | 40-140 | 10.7 | 30 | V-16 |
| Pentachlorophenol | 0.655 | 0.34 | mg/Kg wet | 1.67 | | 39.3 | 30-130 | 27.3 | 30 | |
| Phenanthrene | 1.64 | 0.17 | mg/Kg wet | 1.67 | | 98.6 | 40-140 | 8.90 | 30 | |
| Phenol | 1.59 | 0.34 | mg/Kg wet | 1.67 | | 95.5 | 30-130 | 8.63 | 30 | |
| Pyrene | 1.79 | 0.17 | mg/Kg wet | 1.67 | | 107 | 40-140 | 14.5 | 30 | |
| Pyridine | 0.914 | 0.34 | mg/Kg wet | 1.67 | | 54.9 | 30-140 | 14.9 | 30 | † |
| 1,2,4,5-Tetrachlorobenzene | 1.63 | 0.34 | mg/Kg wet | 1.67 | | 98.0 | 40-140 | 9.27 | 30 | |
| 1,2,4-Trichlorobenzene | 1.44 | 0.34 | mg/Kg wet | 1.67 | | 86.6 | 40-140 | 9.93 | 30 | |
| 2,4,5-Trichlorophenol | 1.61 | 0.34 | mg/Kg wet | 1.67 | | 96.5 | 30-130 | 11.3 | 30 | |
| 2,4,6-Trichlorophenol | 1.72 | 0.34 | mg/Kg wet | 1.67 | | 103 | 30-130 | 9.80 | 30 | |
| Surrogate: 2-Fluorophenol | 6.03 | | mg/Kg wet | 6.67 | | 90.5 | 30-130 | | | |
| Surrogate: Phenol-d6 | 6.77 | | mg/Kg wet | 6.67 | | 102 | 30-130 | | | |
| Surrogate: Nitrobenzene-d5 | 3.17 | | mg/Kg wet | 3.33 | | 95.2 | 30-130 | | | |
| Surrogate: 2-Fluorobiphenyl | 3.47 | | mg/Kg wet | 3.33 | | 104 | 30-130 | | | |
| Surrogate: 2,4,6-Tribromophenol | 7.34 | | mg/Kg wet | 6.67 | | 110 | 30-130 | | | |
| Surrogate: p-Terphenyl-d14 | 3.92 | | mg/Kg wet | 3.33 | | 118 | 30-130 | | | |

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

QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------------------------------------|--------|-----------------|-----------|-------------|---------------|------|-------------|------|-----------|-------|
| Batch B141825 - SW-846 3540C | | | | | | | | | | |
| Blank (B141825-BLK1) | | | | | | | | | | |
| Prepared: 02/10/16 Analyzed: 02/12/16 | | | | | | | | | | |
| 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 | 0.158 | | mg/Kg wet | 0.196 | | 80.5 | 30-150 | | | |
| Surrogate: Decachlorobiphenyl [2C] | 0.174 | | mg/Kg wet | 0.196 | | 88.6 | 30-150 | | | |
| Surrogate: Tetrachloro-m-xylene | 0.151 | | mg/Kg wet | 0.196 | | 77.0 | 30-150 | | | |
| Surrogate: Tetrachloro-m-xylene [2C] | 0.165 | | mg/Kg wet | 0.196 | | 84.3 | 30-150 | | | |
| LCS (B141825-BS1) | | | | | | | | | | |
| Prepared: 02/10/16 Analyzed: 02/12/16 | | | | | | | | | | |
| Aroclor-1016 | 0.14 | 0.020 | mg/Kg wet | 0.198 | | 70.6 | 40-140 | | | |
| Aroclor-1016 [2C] | 0.14 | 0.020 | mg/Kg wet | 0.198 | | 68.9 | 40-140 | | | |
| Aroclor-1260 | 0.13 | 0.020 | mg/Kg wet | 0.198 | | 68.0 | 40-140 | | | |
| Aroclor-1260 [2C] | 0.15 | 0.020 | mg/Kg wet | 0.198 | | 75.0 | 40-140 | | | |
| Surrogate: Decachlorobiphenyl | 0.137 | | mg/Kg wet | 0.198 | | 69.0 | 30-150 | | | |
| Surrogate: Decachlorobiphenyl [2C] | 0.150 | | mg/Kg wet | 0.198 | | 75.4 | 30-150 | | | |
| Surrogate: Tetrachloro-m-xylene | 0.127 | | mg/Kg wet | 0.198 | | 63.8 | 30-150 | | | |
| Surrogate: Tetrachloro-m-xylene [2C] | 0.139 | | mg/Kg wet | 0.198 | | 69.9 | 30-150 | | | |
| LCS Dup (B141825-BSD1) | | | | | | | | | | |
| Prepared: 02/10/16 Analyzed: 02/12/16 | | | | | | | | | | |
| Aroclor-1016 | 0.14 | 0.020 | mg/Kg wet | 0.196 | | 72.5 | 40-140 | 1.75 | 30 | |
| Aroclor-1016 [2C] | 0.14 | 0.020 | mg/Kg wet | 0.196 | | 71.9 | 40-140 | 3.24 | 30 | |
| Aroclor-1260 | 0.14 | 0.020 | mg/Kg wet | 0.196 | | 70.5 | 40-140 | 2.61 | 30 | |
| Aroclor-1260 [2C] | 0.15 | 0.020 | mg/Kg wet | 0.196 | | 77.8 | 40-140 | 2.60 | 30 | |
| Surrogate: Decachlorobiphenyl | 0.138 | | mg/Kg wet | 0.196 | | 70.1 | 30-150 | | | |
| Surrogate: Decachlorobiphenyl [2C] | 0.151 | | mg/Kg wet | 0.196 | | 76.8 | 30-150 | | | |
| Surrogate: Tetrachloro-m-xylene | 0.127 | | mg/Kg wet | 0.196 | | 64.9 | 30-150 | | | |
| Surrogate: Tetrachloro-m-xylene [2C] | 0.140 | | mg/Kg wet | 0.196 | | 71.2 | 30-150 | | | |

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

QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

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

Batch B141825 - SW-846 3540C

Matrix Spike (B141825-MS1)

Source: 16B0383-01

Prepared: 02/10/16 Analyzed: 02/12/16

| | | | | | | | | | | |
|--------------------------------------|-------|------|-----------|-------|------|--------------|--------|--|--|-------|
| Aroclor-1016 | 0.44 | 0.11 | mg/Kg dry | 0.227 | ND | 195 * | 40-140 | | | MS-21 |
| Aroclor-1016 [2C] | 0.48 | 0.11 | mg/Kg dry | 0.227 | ND | 211 * | 40-140 | | | MS-21 |
| Aroclor-1260 | 0.45 | 0.11 | mg/Kg dry | 0.227 | 0.16 | 127 | 40-140 | | | |
| Aroclor-1260 [2C] | 0.51 | 0.11 | mg/Kg dry | 0.227 | 0.19 | 141 * | 40-140 | | | MS-21 |
| Surrogate: Decachlorobiphenyl | 0.194 | | mg/Kg dry | 0.227 | | 85.3 | 30-150 | | | |
| Surrogate: Decachlorobiphenyl [2C] | 0.240 | | mg/Kg dry | 0.227 | | 106 | 30-150 | | | |
| Surrogate: Tetrachloro-m-xylene | 0.198 | | mg/Kg dry | 0.227 | | 87.1 | 30-150 | | | |
| Surrogate: Tetrachloro-m-xylene [2C] | 0.201 | | mg/Kg dry | 0.227 | | 88.5 | 30-150 | | | |

Matrix Spike Dup (B141825-MSD1)

Source: 16B0383-01

Prepared: 02/10/16 Analyzed: 02/12/16

| | | | | | | | | | | |
|--------------------------------------|-------|------|-----------|-------|------|--------------|--------|------|----|-------|
| Aroclor-1016 | 0.36 | 0.11 | mg/Kg dry | 0.225 | ND | 159 * | 40-140 | 20.9 | 50 | MS-21 |
| Aroclor-1016 [2C] | 0.40 | 0.11 | mg/Kg dry | 0.225 | ND | 176 * | 40-140 | 18.7 | 50 | MS-21 |
| Aroclor-1260 | 0.43 | 0.11 | mg/Kg dry | 0.225 | 0.16 | 121 | 40-140 | 3.78 | 50 | |
| Aroclor-1260 [2C] | 0.49 | 0.11 | mg/Kg dry | 0.225 | 0.19 | 133 | 40-140 | 4.52 | 50 | |
| Surrogate: Decachlorobiphenyl | 0.158 | | mg/Kg dry | 0.225 | | 69.9 | 30-150 | | | |
| Surrogate: Decachlorobiphenyl [2C] | 0.203 | | mg/Kg dry | 0.225 | | 89.8 | 30-150 | | | |
| Surrogate: Tetrachloro-m-xylene | 0.163 | | mg/Kg dry | 0.225 | | 72.2 | 30-150 | | | |
| Surrogate: Tetrachloro-m-xylene [2C] | 0.166 | | mg/Kg dry | 0.225 | | 73.5 | 30-150 | | | |

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

QUALITY CONTROL

Petroleum Hydrocarbons Analyses - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------------------------------------|--------|-----------------|-----------|-------------|---------------|------|-------------|------|-----------|-------|
| Batch B141903 - SW-846 3546 | | | | | | | | | | |
| Blank (B141903-BLK1) | | | | | | | | | | |
| Prepared: 02/11/16 Analyzed: 02/12/16 | | | | | | | | | | |
| TPH (C9-C36) | ND | 8.3 | mg/Kg wet | | | | | | | |
| Surrogate: o-Terphenyl | 2.21 | | mg/Kg wet | 3.33 | | 66.3 | 40-140 | | | |
| LCS (B141903-BS1) | | | | | | | | | | |
| Prepared: 02/11/16 Analyzed: 02/12/16 | | | | | | | | | | |
| TPH (C9-C36) | 23.0 | 8.3 | mg/Kg wet | 33.3 | | 68.9 | 40-140 | | | |
| Surrogate: o-Terphenyl | 2.34 | | mg/Kg wet | 3.33 | | 70.3 | 40-140 | | | |
| LCS Dup (B141903-BSD1) | | | | | | | | | | |
| Prepared: 02/11/16 Analyzed: 02/12/16 | | | | | | | | | | |
| TPH (C9-C36) | 21.4 | 8.3 | mg/Kg wet | 33.3 | | 64.2 | 40-140 | 7.20 | 30 | |
| Surrogate: o-Terphenyl | 2.29 | | mg/Kg wet | 3.33 | | 68.7 | 40-140 | | | |

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

QUALITY CONTROL

Metals Analyses (Total) - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|------------------------------------------------------------------------------------|--------|-----------------|-----------|-------------|---------------|---------------|-------------|---------------|-----------|-------|
| Batch B141799 - SW-846 3050B | | | | | | | | | | |
| Blank (B141799-BLK1) Prepared & Analyzed: 02/10/16 | | | | | | | | | | |
| 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 (B141799-BS1) Prepared & Analyzed: 02/10/16 | | | | | | | | | | |
| Arsenic | 77.0 | 5.0 | mg/Kg wet | 98.5 | | 78.2 | 77.8-122.1 | | | |
| Barium | 255 | 5.0 | mg/Kg wet | 308 | | 82.9 | 82-117.4 | | | |
| Cadmium | 134 | 0.50 | mg/Kg wet | 146 | | 91.5 | 81.9-118.2 | | | |
| Chromium | 152 | 0.99 | mg/Kg wet | 182 | | 83.8 | 78.7-120.6 | | | |
| Lead | 116 | 1.5 | mg/Kg wet | 130 | | 89.6 | 82.4-117.8 | | | |
| Selenium | 135 | 9.9 | mg/Kg wet | 154 | | 87.5 | 77.1-122.3 | | | |
| Silver | 31.1 | 0.99 | mg/Kg wet | 40.9 | | 76.0 | 74.3-125.4 | | | |
| LCS Dup (B141799-BSD1) Prepared & Analyzed: 02/10/16 | | | | | | | | | | |
| Arsenic | 96.4 | 5.0 | mg/Kg wet | 98.5 | | 97.8 | 77.8-122.1 | 22.3 | 30 | |
| Barium | 340 | 5.0 | mg/Kg wet | 308 | | 111 | 82-117.4 | 28.6 | 30 | |
| Cadmium | 146 | 0.50 | mg/Kg wet | 146 | | 99.9 | 81.9-118.2 | 8.71 | 30 | |
| Chromium | 187 | 0.99 | mg/Kg wet | 182 | | 103 | 78.7-120.6 | 20.4 | 30 | |
| Lead | 126 | 1.5 | mg/Kg wet | 130 | | 97.0 | 82.4-117.8 | 7.93 | 30 | |
| Selenium | 135 | 9.9 | mg/Kg wet | 154 | | 88.0 | 77.1-122.3 | 0.554 | 30 | |
| Silver | 37.2 | 0.99 | mg/Kg wet | 40.9 | | 91.0 | 74.3-125.4 | 18.0 | 30 | |
| Duplicate (B141799-DUP1) Source: 16B0383-01 Prepared & Analyzed: 02/10/16 | | | | | | | | | | |
| Arsenic | ND | 3.0 | mg/Kg dry | | ND | | | NC | 35 | |
| Barium | 95.8 | 3.0 | mg/Kg dry | | 56.6 | | | 51.6 * | 35 | R-02 |
| Cadmium | 4.09 | 0.30 | mg/Kg dry | | 1.17 | | | 111 * | 35 | R-02 |
| Chromium | 38.6 | 0.59 | mg/Kg dry | | 24.7 | | | 44.1 * | 35 | R-02 |
| Lead | 241 | 0.89 | mg/Kg dry | | 177 | | | 30.8 | 35 | |
| Selenium | ND | 5.9 | mg/Kg dry | | ND | | | NC | 35 | |
| Silver | ND | 0.59 | mg/Kg dry | | ND | | | NC | 35 | |
| MRL Check (B141799-MRL1) Prepared & Analyzed: 02/10/16 | | | | | | | | | | |
| Lead | 0.623 | 0.72 | mg/Kg wet | 0.723 | | 86.2 | 80-120 | | | |
| Matrix Spike (B141799-MS1) Source: 16B0383-01 Prepared & Analyzed: 02/10/16 | | | | | | | | | | |
| Arsenic | 28.3 | 2.8 | mg/Kg dry | 27.9 | 1.24 | 96.8 | 75-125 | | | |
| Barium | 239 | 2.8 | mg/Kg dry | 27.9 | 56.6 | 655 * | 75-125 | | | MS-11 |
| Cadmium | 27.6 | 0.28 | mg/Kg dry | 27.9 | 1.17 | 94.6 | 75-125 | | | |
| Chromium | 59.3 | 0.56 | mg/Kg dry | 27.9 | 24.7 | 124 | 75-125 | | | |
| Lead | 242 | 0.84 | mg/Kg dry | 27.9 | 177 | 233 * | 75-125 | | | MS-19 |
| Selenium | 15.7 | 5.6 | mg/Kg dry | 27.9 | ND | 56.3 * | 75-125 | | | MS-07 |
| Silver | 22.6 | 0.56 | mg/Kg dry | 27.9 | ND | 81.0 | 75-125 | | | |

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|------------------------------------|--------|-----------------|-----------|-------------|---------------------------------------|------|-------------|------|-----------|-------|
| Batch B141852 - SW-846 7471 | | | | | | | | | | |
| Blank (B141852-BLK1) | | | | | | | | | | |
| | | | | | Prepared: 02/10/16 Analyzed: 02/12/16 | | | | | |
| Mercury | ND | 0.025 | mg/Kg wet | | | | | | | |
| LCS (B141852-BS1) | | | | | | | | | | |
| | | | | | Prepared: 02/10/16 Analyzed: 02/16/16 | | | | | |
| Mercury | 7.56 | 0.79 | mg/Kg wet | 7.10 | | 107 | 73.7-126.3 | | | |
| LCS Dup (B141852-BSD1) | | | | | | | | | | |
| | | | | | Prepared: 02/10/16 Analyzed: 02/16/16 | | | | | |
| Mercury | 8.57 | 0.83 | mg/Kg wet | 7.10 | | 121 | 73.7-126.3 | 12.5 | 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 B141833 - SW-846 1010A | | | | | | | | | | |
| Blank (B141833-BLK1) | | | | | | | | | | |
| Prepared & Analyzed: 02/10/16 | | | | | | | | | | |
| Flashpoint | > 212 °F | | °F | | | | | | | |
| LCS (B141833-BS1) | | | | | | | | | | |
| Prepared & Analyzed: 02/10/16 | | | | | | | | | | |
| Flashpoint | 81 | | °F | 81.0 | | 99.8 | 98.8-101 | | | |
| LCS Dup (B141833-BSD1) | | | | | | | | | | |
| Prepared & Analyzed: 02/10/16 | | | | | | | | | | |
| Flashpoint | 81 | | °F | 81.0 | | 99.8 | 98.8-101 | 0.00 | 5 | |
| Batch B141837 - SW-846 9045C | | | | | | | | | | |
| LCS (B141837-BS1) | | | | | | | | | | |
| Prepared & Analyzed: 02/10/16 | | | | | | | | | | |
| pH | 6.01 | | pH Units | 6.00 | | 100 | 98.6-102 | | | |
| Duplicate (B141837-DUP1) | | | | | | | | | | |
| Source: 16B0383-03 | | | | | | | | | | |
| Prepared & Analyzed: 02/10/16 | | | | | | | | | | |
| pH | 7.6 | | pH Units | | 7.6 | | | 0.393 | 5 | H-03 |
| Batch B141850 - SW-846 9030A | | | | | | | | | | |
| Blank (B141850-BLK1) | | | | | | | | | | |
| Prepared & Analyzed: 02/10/16 | | | | | | | | | | |
| Reactive Sulfide | ND | 2.0 | mg/Kg | | | | | | | |
| LCS (B141850-BS1) | | | | | | | | | | |
| Prepared & Analyzed: 02/10/16 | | | | | | | | | | |
| Reactive Sulfide | 13 | | mg/Kg | 14.8 | | 89.2 | 42.9-132 | | | |
| Batch B141863 - SW-846 9014 | | | | | | | | | | |
| Blank (B141863-BLK1) | | | | | | | | | | |
| Prepared & Analyzed: 02/10/16 | | | | | | | | | | |
| Reactive Cyanide | ND | 0.40 | mg/Kg | | | | | | | |
| LCS (B141863-BS1) | | | | | | | | | | |
| Prepared & Analyzed: 02/10/16 | | | | | | | | | | |
| Reactive Cyanide | 9.5 | 0.40 | mg/Kg | 10.0 | | 95.4 | 86.4-107 | | | |

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

SP-01

SW-846 8082A

Lab Sample ID: 16B0383-01 Date(s) Analyzed: 02/12/2016 02/12/2016

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

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

| ANALYTE | COL | RT | RT WINDOW | | CONCENTRATION | %D |
|--------------|-----|------|-----------|------|---------------|------|
| | | | FROM | TO | | |
| Aroclor-1248 | 1 | 0.00 | -0.03 | 0.03 | 0.47 | |
| | 2 | 0.00 | -0.03 | 0.03 | 0.47 | 0.9 |
| Aroclor-1254 | 1 | 0.00 | -0.03 | 0.03 | 0.38 | |
| | 2 | 0.00 | -0.03 | 0.03 | 0.49 | 24.8 |
| Aroclor-1260 | 1 | 0.00 | -0.03 | 0.03 | 0.16 | |
| | 2 | 0.00 | -0.03 | 0.03 | 0.19 | 16.5 |

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

| |
|--------------|
| SP-02 |
|--------------|

Lab Sample ID: 16B0383-03 Date(s) Analyzed: 02/12/2016 02/12/2016

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

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

| ANALYTE | COL | RT | RT WINDOW | | CONCENTRATION | %D |
|--------------|-----|------|-----------|------|---------------|------|
| | | | FROM | TO | | |
| Aroclor-1248 | 1 | 0.00 | -0.03 | 0.03 | 0.30 | |
| | 2 | 0.00 | -0.03 | 0.03 | 0.37 | 22.6 |
| Aroclor-1254 | 1 | 0.00 | -0.03 | 0.03 | 0.68 | |
| | 2 | 0.00 | -0.03 | 0.03 | 0.81 | 17.9 |
| Aroclor-1260 | 1 | 0.00 | -0.03 | 0.03 | 0.15 | |
| | 2 | 0.00 | -0.03 | 0.03 | 0.17 | 15.2 |

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

LCS

Lab Sample ID: B141825-BS1 Date(s) Analyzed: 02/12/2016 02/12/2016
 Instrument ID (1): _____ Instrument ID (2): _____
 GC Column (1): ID: (mm) GC Column (2): ID: (mm)

| ANALYTE | COL | RT | RT WINDOW | | CONCENTRATION | %D |
|--------------|-----|------|-----------|------|---------------|----|
| | | | FROM | TO | | |
| Aroclor-1016 | 1 | 0.00 | -0.03 | 0.03 | 0.14 | |
| | 2 | 0.00 | -0.03 | 0.03 | 0.14 | 0 |
| Aroclor-1260 | 1 | 0.00 | -0.03 | 0.03 | 0.13 | |
| | 2 | 0.00 | -0.03 | 0.03 | 0.15 | 11 |

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

LCS Dup

SW-846 8082A

Lab Sample ID: B141825-BSD1 Date(s) Analyzed: 02/12/2016 02/12/2016

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

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

| ANALYTE | COL | RT | RT WINDOW | | CONCENTRATION | %D |
|--------------|-----|------|-----------|------|---------------|----|
| | | | FROM | TO | | |
| Aroclor-1016 | 1 | 0.00 | -0.03 | 0.03 | 0.14 | |
| | 2 | 0.00 | -0.03 | 0.03 | 0.14 | 1 |
| Aroclor-1260 | 1 | 0.00 | -0.03 | 0.03 | 0.14 | |
| | 2 | 0.00 | -0.03 | 0.03 | 0.15 | 8 |

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

| |
|---------------------|
| Matrix Spike |
|---------------------|

Lab Sample ID: B141825-MS1 Date(s) Analyzed: 02/12/2016 02/12/2016

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

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

| ANALYTE | COL | RT | RT WINDOW | | CONCENTRATION | %D |
|--------------|-----|------|-----------|------|---------------|----|
| | | | FROM | TO | | |
| Aroclor-1016 | 1 | 0.00 | -0.03 | 0.03 | 0.44 | |
| | 2 | 0.00 | -0.03 | 0.03 | 0.48 | 8 |
| Aroclor-1260 | 1 | 0.00 | -0.03 | 0.03 | 0.45 | |
| | 2 | 0.00 | -0.03 | 0.03 | 0.51 | 13 |

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

Matrix Spike Dup

Lab Sample ID: B141825-MSD1 Date(s) Analyzed: 02/12/2016 02/12/2016

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

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

| ANALYTE | COL | RT | RT WINDOW | | CONCENTRATION | %D |
|--------------|-----|------|-----------|------|---------------|----|
| | | | FROM | TO | | |
| Aroclor-1016 | 1 | 0.00 | -0.03 | 0.03 | 0.36 | |
| | 2 | 0.00 | -0.03 | 0.03 | 0.40 | 11 |
| Aroclor-1260 | 1 | 0.00 | -0.03 | 0.03 | 0.43 | |
| | 2 | 0.00 | -0.03 | 0.03 | 0.49 | 12 |

FLAG/QUALIFIER SUMMARY

| | |
|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| * | QC result is outside of established limits. |
| † | Wide recovery limits established for difficult compound. |
| ‡ | Wide RPD limits established for difficult compound. |
| # | Data exceeded client recommended or regulatory level |
| ND | Not Detected |
| RL | Reporting Limit |
| DL | Method Detection Limit |
| MCL | Maximum Contaminant Level |
| | Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded. |
| | No results have been blank subtracted unless specified in the case narrative section. |
| H-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-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. |
| 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. |
| MS-11 | Matrix spike recovery outside of control limits. Possibility of sample matrix effects that lead to a high bias for reported result or non-homogeneous sample aliquots cannot be eliminated. |
| MS-19 | Sample to spike ratio is greater than or equal to 4:1. Spiked amount is not representative of the native amount in the sample. Appropriate or meaningful recoveries cannot be calculated. |
| MS-21 | Matrix spike and/or spike duplicate recovery bias high due to contribution of other Aroclors present in the source sample. |
| R-02 | Duplicate RPD is outside of control limits. Outlier can be attributed to sample non-homogeneity encountered during sample prep. |
| R-05 | Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound. |
| 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-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 1010A in Soil | |
| Flashpoint | NY,NC,ME,VA |
| SW-846 6010C in Soil | |
| Arsenic | CT,NH,NY,ME,VA |
| Barium | CT,NH,NY,ME,VA |
| Cadmium | CT,NH,NY,ME,VA |
| Chromium | CT,NH,NY,ME,VA |
| Lead | CT,NH,NY,AIHA,ME,VA |
| Selenium | CT,NH,NY,ME,VA |
| Silver | CT,NH,NY,ME,VA |
| SW-846 7471B in Soil | |
| Mercury | CT,NH,NY,NC,ME,VA |
| SW-846 8082A in Soil | |
| Aroclor-1016 | CT,NH,NY,ME,NC,VA |
| Aroclor-1016 [2C] | CT,NH,NY,ME,NC,VA |
| Aroclor-1221 | CT,NH,NY,ME,NC,VA |
| Aroclor-1221 [2C] | CT,NH,NY,ME,NC,VA |
| Aroclor-1232 | CT,NH,NY,ME,NC,VA |
| Aroclor-1232 [2C] | CT,NH,NY,ME,NC,VA |
| Aroclor-1242 | CT,NH,NY,ME,NC,VA |
| Aroclor-1242 [2C] | CT,NH,NY,ME,NC,VA |
| Aroclor-1248 | CT,NH,NY,ME,NC,VA |
| Aroclor-1248 [2C] | CT,NH,NY,ME,NC,VA |
| Aroclor-1254 | CT,NH,NY,ME,NC,VA |
| Aroclor-1254 [2C] | CT,NH,NY,ME,NC,VA |
| Aroclor-1260 | CT,NH,NY,ME,NC,VA |
| Aroclor-1260 [2C] | CT,NH,NY,ME,NC,VA |
| Aroclor-1262 | NY,NC,VA |
| Aroclor-1262 [2C] | NY,NC,VA |
| Aroclor-1268 | NY,NC,VA |
| Aroclor-1268 [2C] | NY,NC,VA |
| SW-846 8260C in Soil | |
| Acetone | CT,NH,NY,ME,VA |
| Acrylonitrile | CT,NH,NY,ME,VA |
| Benzene | CT,NH,NY,ME,VA |
| Bromobenzene | NH,NY,ME,VA |
| Bromochloromethane | NH,NY,ME,VA |
| Bromodichloromethane | CT,NH,NY,ME,VA |
| Bromoform | CT,NH,NY,ME,VA |
| Bromomethane | CT,NH,NY,ME,VA |
| 2-Butanone (MEK) | CT,NH,NY,ME,VA |
| n-Butylbenzene | CT,NH,NY,ME,VA |
| sec-Butylbenzene | CT,NH,NY,ME,VA |
| tert-Butylbenzene | CT,NH,NY,ME,VA |
| Carbon Disulfide | CT,NH,NY,ME,VA |
| Carbon Tetrachloride | CT,NH,NY,ME,VA |

CERTIFICATIONS

Certified Analyses included in this Report

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

CERTIFICATIONS

Certified Analyses included in this Report

| Analyte | Certifications |
|-----------------------------|-------------------|
| SW-846 8260C in Soil | |
| 1,3,5-Trimethylbenzene | CT,NH,NY,ME,VA |
| Vinyl Chloride | CT,NH,NY,ME,VA |
| m+p Xylene | CT,NH,NY,ME,VA |
| o-Xylene | CT,NH,NY,ME,VA |
| SW-846 8270D in Soil | |
| Acenaphthene | CT,NY,NH,ME,NC,VA |
| Acenaphthylene | CT,NY,NH,ME,NC,VA |
| Acetophenone | NY,NH,ME,NC,VA |
| Aniline | NY,NH,ME,NC,VA |
| Anthracene | CT,NY,NH,ME,NC,VA |
| Benzidine | CT,NY,NH,ME,NC,VA |
| Benzo(a)anthracene | CT,NY,NH,ME,NC,VA |
| Benzo(a)pyrene | CT,NY,NH,ME,NC,VA |
| Benzo(b)fluoranthene | CT,NY,NH,ME,NC,VA |
| Benzo(g,h,i)perylene | CT,NY,NH,ME,NC,VA |
| Benzo(k)fluoranthene | CT,NY,NH,ME,NC,VA |
| Benzoic Acid | NY,NH,ME,NC,VA |
| Bis(2-chloroethoxy)methane | CT,NY,NH,ME,NC,VA |
| Bis(2-chloroethyl)ether | CT,NY,NH,ME,NC,VA |
| Bis(2-chloroisopropyl)ether | CT,NY,NH,ME,NC,VA |
| Bis(2-Ethylhexyl)phthalate | CT,NY,NH,ME,NC,VA |
| 4-Bromophenylphenylether | CT,NY,NH,ME,NC,VA |
| Butylbenzylphthalate | CT,NY,NH,ME,NC,VA |
| Carbazole | NC |
| 4-Chloroaniline | CT,NY,NH,ME,NC,VA |
| 4-Chloro-3-methylphenol | CT,NY,NH,ME,NC,VA |
| 2-Chloronaphthalene | CT,NY,NH,NC,VA |
| 2-Chlorophenol | CT,NY,NH,ME,NC,VA |
| 4-Chlorophenylphenylether | CT,NY,NH,ME,NC,VA |
| Chrysene | CT,NY,NH,ME,NC,VA |
| Dibenz(a,h)anthracene | CT,NY,NH,ME,NC,VA |
| Dibenzofuran | CT,NY,NH,ME,NC,VA |
| Di-n-butylphthalate | CT,NY,NH,ME,NC,VA |
| 1,2-Dichlorobenzene | NY,NH,ME,NC,VA |
| 1,3-Dichlorobenzene | NY,NH,ME,NC,VA |
| 1,4-Dichlorobenzene | NY,NH,ME,NC,VA |
| 3,3-Dichlorobenzidine | CT,NY,NH,ME,NC,VA |
| 2,4-Dichlorophenol | CT,NY,NH,ME,NC,VA |
| Diethylphthalate | CT,NY,NH,ME,NC,VA |
| 2,4-Dimethylphenol | CT,NY,NH,ME,NC,VA |
| Dimethylphthalate | CT,NY,NH,ME,NC,VA |
| 4,6-Dinitro-2-methylphenol | CT,NY,NH,ME,NC,VA |
| 2,4-Dinitrophenol | CT,NY,NH,ME,NC,VA |
| 2,4-Dinitrotoluene | CT,NY,NH,ME,NC,VA |
| 2,6-Dinitrotoluene | CT,NY,NH,ME,NC,VA |
| Di-n-octylphthalate | CT,NY,NH,ME,NC,VA |

CERTIFICATIONS

Certified Analyses included in this Report

| Analyte | Certifications |
|---------------------------------------|-------------------|
| <i>SW-846 8270D in Soil</i> | |
| 1,2-Diphenylhydrazine (as Azobenzene) | NY,NH,ME,NC,VA |
| Fluoranthene | CT,NY,NH,ME,NC,VA |
| Fluorene | NY,NH,ME,NC,VA |
| Hexachlorobenzene | CT,NY,NH,ME,NC,VA |
| Hexachlorobutadiene | CT,NY,NH,ME,NC,VA |
| Hexachlorocyclopentadiene | CT,NY,NH,ME,NC,VA |
| Hexachloroethane | CT,NY,NH,ME,NC,VA |
| Indeno(1,2,3-cd)pyrene | CT,NY,NH,ME,NC,VA |
| Isophorone | CT,NY,NH,ME,NC,VA |
| 1-Methylnaphthalene | NC |
| 2-Methylnaphthalene | CT,NY,NH,ME,NC,VA |
| 2-Methylphenol | CT,NY,NH,ME,NC,VA |
| 3/4-Methylphenol | CT,NY,NH,ME,NC,VA |
| Naphthalene | CT,NY,NH,ME,NC,VA |
| 2-Nitroaniline | CT,NY,NH,ME,NC,VA |
| 3-Nitroaniline | CT,NY,NH,ME,NC,VA |
| 4-Nitroaniline | CT,NY,NH,ME,NC,VA |
| Nitrobenzene | CT,NY,NH,ME,NC,VA |
| 2-Nitrophenol | CT,NY,NH,ME,NC,VA |
| 4-Nitrophenol | CT,NY,NH,ME,NC,VA |
| N-Nitrosodimethylamine | CT,NY,NH,ME,NC,VA |
| N-Nitrosodiphenylamine | CT,NY,NH,ME,NC,VA |
| N-Nitrosodi-n-propylamine | CT,NY,NH,ME,NC,VA |
| Pentachloronitrobenzene | NC |
| Pentachlorophenol | CT,NY,NH,ME,NC,VA |
| Phenanthrene | CT,NY,NH,ME,NC,VA |
| Phenol | CT,NY,NH,ME,NC,VA |
| Pyrene | CT,NY,NH,ME,NC,VA |
| Pyridine | CT,NY,NH,ME,NC,VA |
| 1,2,4,5-Tetrachlorobenzene | NC |
| 1,2,4-Trichlorobenzene | CT,NY,NH,ME,NC,VA |
| 2,4,5-Trichlorophenol | CT,NY,NH,ME,NC,VA |
| 2,4,6-Trichlorophenol | CT,NY,NH,ME,NC,VA |
| 2-Fluorophenol | NC |

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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 | 02/1/2018 |
| MA | Massachusetts DEP | M-MA100 | 06/30/2016 |
| CT | Connecticut Department of Public Health | PH-0567 | 09/30/2017 |
| NY | New York State Department of Health | 10899 NELAP | 04/1/2016 |
| NH-S | New Hampshire Environmental Lab | 2516 NELAP | 02/5/2017 |
| RI | Rhode Island Department of Health | LAO00112 | 12/30/2016 |
| NC | North Carolina Div. of Water Quality | 652 | 12/31/2016 |
| NJ | New Jersey DEP | MA007 NELAP | 06/30/2016 |
| FL | Florida Department of Health | E871027 NELAP | 06/30/2016 |
| VT | Vermont Department of Health Lead Laboratory | LL015036 | 07/30/2016 |
| WA | State of Washington Department of Ecology | C2065 | 02/23/2016 |
| ME | State of Maine | 2011028 | 06/9/2017 |
| VA | Commonwealth of Virginia | 460217 | 12/14/2016 |
| NH-P | New Hampshire Environmental Lab | 2557 NELAP | 09/6/2016 |



Phone: 413-525-2332

Fax: 413-525-6405

Email: info@contestlabs.com

www.contestlabs.com

CHAIN OF CUSTODY RECORD

16 B0383
Rev 04.05.12

39 Spruce Street
East longmeadow, MA 01028

Company Name: Coneco

Telephone: 508-697-3191

Address: 4 First Street
Bridgewater, MA 02324

Project # 7400, B

Client PO# 7400, B

Attention: Environmental AP

DATA DELIVERY (check all that apply)

FAX EMAIL WEBSITE

Email: jaevazelis@coneco.com

Project Location: 434 Allens Avenue, Providence, RI

Sampled By: TSN, MEB MRB

Format: PDF EXCEL OGIS

OTHER

"Enhanced Data Package"

Project Proposal Provided? (for billing purposes)

yes proposal date

| | | | | | | | | | | | | | | | | | | | |
|--------------------|---|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| 3 | 4 | Z | | | | | | | | | | | | | | | | | |
| I | O | M | | | | | | | | | | | | | | | | | |
| A | V | V | | | | | | | | | | | | | | | | | |
| ANALYSIS REQUESTED | | | | | | | | | | | | | | | | | | | |
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of Containers
** Preservation
*** Container Code

Dissolved Metals
 Field Filtered
 Lab to Filter

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

** Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other DI w/v

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

| Con-Test Lab ID <small>(laboratory use only)</small> | Client Sample ID / Description | Collection | | Composite | Grab | Matrix Code | Conc Code | ANALYSIS REQUESTED | | | | | | | | | | | | |
|---------------------------------------------------------|--------------------------------|------------|-----------|-----------|------|-------------|-----------|--------------------|------|------|-----|--------------|------------------|------------------|------------|----|--------------------------|--|--|--|
| | | Date/Time | Date/Time | | | | | SVOCs | VOCs | PCBs | TPH | ROA & Metals | Reactive Cyanide | Reactive Sulfide | Flashpoint | pH | TCLP Metals * (see note) | | | |
| 01 | SP-01 | 2/5/16 | 8:00 | X | | S | U | X | | | | | | | | | | | | |
| 02 | SP-01 | | 8:00 | | X | S | U | | X | | | | | | | | | | | |
| 03 | SP-02 | | 7:30 | X | | S | U | X | | | | | | | | | | | | |
| 04 | SP-02 | | 7:30 | | X | S | U | | X | | | | | | | | | | | |

Comments: National Grid Project VOA's frozen on 2/5/16 11:40 AM
*Please run TCLP for any metals that exceed limits for total metals

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) <u>Thomas J. Newenhouse</u> | Date/Time: 2/9 12- |
| Received by: (signature) <u>Joe ZUP</u> | Date/Time: 2/9 4:35 |
| Relinquished by: (signature) <u>Joe ZUP</u> | Date/Time: 2/9 4:35 |
| Received by: (signature) <u>John</u> | Date/Time: 2/9/16 1635 |

Turnaround ^{††}

7-Day
 10-Day
 Other 5 day

RUSH [†]

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

Detection Limit Requirements

Massachusetts: _____

Connecticut: _____

Other: RI - Residential

Is your project MCP or RCP?

MCP Form Required Foreign 2/9/16 1635
 RCP Form Required
 MA State DW Form Required PWSID # _____

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

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



Sample Receipt Checklist

CLIENT NAME: Coneco RECEIVED BY: JDL DATE: 2/9/2016

- 1) Was the chain(s) of custody relinquished and signed? Yes No No COC Incl.
- 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 4.6
- 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: 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 N/A

Containers received at Con-Test

| | # of containers | | | # of containers |
|--------------------------------|-----------------|--|----------------------|-----------------|
| 1 Liter Amber | | | 16 oz amber | |
| 500 mL Amber | | | 8 oz amber/clear jar | 6 |
| 250 mL Amber (8oz amber) | | | 4 oz amber/clear jar | |
| 1 Liter Plastic | | | 2 oz amber/clear jar | |
| 500 mL Plastic | | | Plastic Bag / Ziploc | |
| 250 mL plastic | | | SOC Kit | |
| 40 mL Vial - type listed below | 6 | | Perchlorate Kit | |
| Colisure / bacteria bottle | | | Flashpoint bottle | |
| Dissolved Oxygen bottle | | | Other glass jar | |
| Encore | | | Other | |

| | | |
|----------------------------------------|---------------------|-------------------------------------------------|
| 40 mL vials: # HCl _____ | # Methanol <u>2</u> | Time and Date Frozen: 2/9/16 1635 |
| Doc# 277 # Bisulfate _____ | # DI Water <u>4</u> | |
| Rev. 4 August 2013 # Thiosulfate _____ | Unpreserved _____ | |

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

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

Doc #277 Rev. 4 August 2013 **Who notified of False statements?**
Log-In Technician Initials: JDL

Date/Time:
2/9/16 1635

February 19, 2016

John Aevazelis
Coneco Engineers & Scientists, Inc.
4 First Street
Bridgewater, MA 02324

Project Location: 434 Allens Ave., Providence, RI
Client Job Number:
Project Number: 7400.B
Laboratory Work Order Number: 16B0679

Enclosed are results of analyses for samples received by the laboratory on February 16, 2016. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Steven Case", written in a cursive style.

Steven M. Case
Project Manager

Table of Contents

| | |
|---------------------------------|----|
| Sample Summary | 3 |
| Case Narrative | 4 |
| Sample Results | 5 |
| 16B0679-01 | 5 |
| 16B0679-02 | 7 |
| Sample Preparation Information | 9 |
| QC Data | 10 |
| TCLP - Metals Analyses | 10 |
| B142350 | 10 |
| Flag/Qualifier Summary | 11 |
| Certifications | 12 |
| Chain of Custody/Sample Receipt | 13 |

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

Coneco Engineers & Scientists, Inc.
 4 First Street
 Bridgewater, MA 02324
 ATTN: John Aevazelis

REPORT DATE: 2/19/2016

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 7400.B

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 16B0679

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

PROJECT LOCATION: 434 Allens Ave., Providence, RI

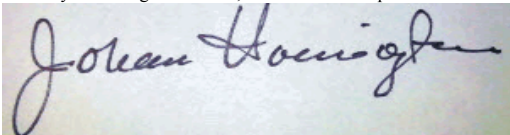
| FIELD SAMPLE # | LAB ID: | MATRIX | SAMPLE DESCRIPTION | TEST | SUB LAB |
|----------------|------------|--------|--------------------|-----------------------------------------|---------|
| SP-01 | 16B0679-01 | Soil | | SM 2540G SW-846 1311 SW-846 6010C | |
| SP-02 | 16B0679-02 | Soil | | SM 2540G SW-846 1311 SW-846 6010C | |

CASE NARRATIVE SUMMARY

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

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

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

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

Johanna K. Harrington
Manager, Laboratory Reporting

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0679

Date Received: 2/16/2016

Field Sample #: SP-01

Sampled: 2/5/2016 08:00

Sample ID: 16B0679-01

Sample Matrix: Soil

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

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|---------------|--------------------|---------|
| % Solids | 85.7 | | % Wt | 1 | | SM 2540G | 2/11/16 | 2/16/16 17:22 | MJR |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0679

Date Received: 2/16/2016

Field Sample #: SP-01

Sampled: 2/5/2016 08:00

Sample ID: 16B0679-01

Sample Matrix: Soil

TCLP - Metals Analyses

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---------|---------|-------|-------|----------|-----------|--------------|---------------|--------------------|---------|
| Lead | 0.26 | 0.010 | mg/L | 1 | | SW-846 6010C | 2/17/16 | 2/18/16 16:36 | AME |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0679

Date Received: 2/16/2016

Field Sample #: SP-02

Sampled: 2/5/2016 07:30

Sample ID: 16B0679-02

Sample Matrix: Soil

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

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|---------------|--------------------|---------|
| % Solids | 87.8 | | % Wt | 1 | | SM 2540G | 2/11/16 | 2/16/16 17:22 | MJR |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0679

Date Received: 2/16/2016

Field Sample #: SP-02

Sampled: 2/5/2016 07:30

Sample ID: 16B0679-02

Sample Matrix: Soil

TCLP - Metals Analyses

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|----------|---------|-------|-------|----------|-----------|--------------|---------------|--------------------|---------|
| Chromium | ND | 0.010 | mg/L | 1 | | SW-846 6010C | 2/17/16 | 2/18/16 16:41 | AME |
| Lead | 0.92 | 0.010 | mg/L | 1 | | SW-846 6010C | 2/17/16 | 2/18/16 16:41 | AME |

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

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

| Lab Number [Field ID] | Batch | Date |
|-----------------------|---------|----------|
| 16B0679-01 [SP-01] | B141986 | 02/11/16 |
| 16B0679-02 [SP-02] | B141986 | 02/11/16 |

Prep Method: SW-846 3010A-SW-846 6010C**Leachates were extracted on 2/16/2016 per SW-846 1311 in Batch B142282**

| Lab Number [Field ID] | Batch | Initial [mL] | Final [mL] | Date |
|-----------------------|---------|--------------|------------|----------|
| 16B0679-01 [SP-01] | B142350 | 50.0 | 50.0 | 02/17/16 |
| 16B0679-02 [SP-02] | B142350 | 50.0 | 50.0 | 02/17/16 |

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

QUALITY CONTROL

TCLP - Metals Analyses - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|-------------------------------------|--------|---------------------------|-------|---------------------------------------|---------------------------------------|------|-------------|-------|-----------|-------|
| Batch B142350 - SW-846 3010A | | | | | | | | | | |
| Blank (B142350-BLK1) | | | | | | | | | | |
| | | | | Prepared: 02/17/16 Analyzed: 02/18/16 | | | | | | |
| Chromium | ND | 0.010 | mg/L | | | | | | | |
| Lead | ND | 0.010 | mg/L | | | | | | | |
| LCS (B142350-BS1) | | | | | | | | | | |
| | | | | Prepared: 02/17/16 Analyzed: 02/18/16 | | | | | | |
| Chromium | 0.486 | 0.010 | mg/L | 0.500 | | 97.1 | 80-120 | | | |
| Lead | 0.462 | 0.010 | mg/L | 0.500 | | 92.3 | 80-120 | | | |
| LCS Dup (B142350-BSD1) | | | | | | | | | | |
| | | | | Prepared: 02/17/16 Analyzed: 02/18/16 | | | | | | |
| Chromium | 0.487 | 0.010 | mg/L | 0.500 | | 97.5 | 80-120 | 0.353 | 20 | |
| Lead | 0.461 | 0.010 | mg/L | 0.500 | | 92.1 | 80-120 | 0.183 | 20 | |
| Matrix Spike (B142350-MS1) | | | | | | | | | | |
| | | Source: 16B0679-01 | | | Prepared: 02/17/16 Analyzed: 02/18/16 | | | | | |
| Chromium | 0.479 | 0.010 | mg/L | 0.500 | 0.00494 | 94.7 | 75-125 | | | |
| Lead | 0.709 | 0.010 | mg/L | 0.500 | 0.261 | 89.7 | 75-125 | | | |

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

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 |
| ND | Not Detected |
| RL | Reporting Limit |
| DL | Method Detection Limit |
| MCL | Maximum Contaminant Level |

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

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

CERTIFICATIONS

Certified Analyses included in this Report

| Analyte | Certifications |
|------------------------------|-------------------|
| <i>SW-846 6010C in Water</i> | |
| Chromium | NY,CT,ME,NC,NH,VA |
| Lead | NY,CT,ME,NC,NH,VA |

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

| Code | Description | Number | Expires |
|------|----------------------------------------------|---------------|------------|
| AIHA | AIHA-LAP, LLC | 100033 | 02/1/2018 |
| MA | Massachusetts DEP | M-MA100 | 06/30/2016 |
| CT | Connecticut Department of Public Health | PH-0567 | 09/30/2017 |
| NY | New York State Department of Health | 10899 NELAP | 04/1/2016 |
| NH-S | New Hampshire Environmental Lab | 2516 NELAP | 02/5/2017 |
| RI | Rhode Island Department of Health | LAO00112 | 12/30/2016 |
| NC | North Carolina Div. of Water Quality | 652 | 12/31/2016 |
| NJ | New Jersey DEP | MA007 NELAP | 06/30/2016 |
| FL | Florida Department of Health | E871027 NELAP | 06/30/2016 |
| VT | Vermont Department of Health Lead Laboratory | LL015036 | 07/30/2016 |
| WA | State of Washington Department of Ecology | C2065 | 02/23/2016 |
| ME | State of Maine | 2011028 | 06/9/2017 |
| VA | Commonwealth of Virginia | 460217 | 12/14/2016 |
| NH-P | New Hampshire Environmental Lab | 2557 NELAP | 09/6/2016 |



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

1630674
 1630383 (KM) 2/11/16
 Rev 04.05.12
CHAIN OF CUSTODY RECORD
 39 Spruce Street
 East longmeadow, MA 01028

Company Name: Conoco
 Address: 4 First Street
Bridgewater, MA 02324
 Attention: Environmental AP
 Project Location: 434 Allens Avenue, Providence, RI
 Sampled By: TSN, MEB MSB
 Project Proposal Provided? (for billing purposes)
 yes no proposal date

Telephone: 508-697-3191
 Project # 7400.B
 Client PO# 7400.B
 DATA DELIVERY (check all that apply)
 FAX EMAIL WEBSITE
frnieuwhuis@mbrach
 Email: jacovazelis@conoco.com
 Format: PDF EXCEL GIS
 OTHER
 "Enhanced Data Package"

| S | | M | | Z | | | | | | | | | | | | # of Containers |
|----------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|--|---|--|--|--|--|--|--|--|--|--|--|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| I | O | M | | | | | | | | | | | | | | ** Preservation |
| A | V | V | | | | | | | | | | | | | | ***Container Code |
| ANALYSIS REQUESTED | | | | | | | | | | | | | | | | |
| VOCs 8270 VOCs 8260 PCBs 8082 TPH 8100M RAS & Metals Reactive Cyanide Reactive Sulfide Flashpoint pH TCLP Metals * (see note) | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | Dissolved Metals <input type="checkbox"/> Field Filtered <input type="checkbox"/> Lab to Filter ***Cont. Code: A=amber glass G=glass P=plastic ST=sterile V= vial S=summa can T=tedlar bag O=Other |
| | | | | | | | | | | | | | | | | **Preservation I = Iced H = HCL M = Methanol N = Nitric Acid S = Sulfuric Acid B = Sodium bisulfate X = Na hydroxide T = Na thiosulfate O = Other <u>DJ wav</u> |
| | | | | | | | | | | | | | | | | *Matrix Code: GW = groundwater WW = wastewater DW = drinking water A = air S = soil/solid SL = sludge O = other |

| Con-Test Lab ID <small>(Laboratory use only)</small> | Client Sample ID / Description | Collection | | Composite | Grab | *Matrix Code | Conc Code | ANALYSIS REQUESTED | | | | | | | | | |
|---------------------------------------------------------|----------------------------------------------------------------------|---------------------|------------------|-----------|------|--------------|-----------|--------------------|---|---|--|--|--|--|--|--|--|
| | | Beginning Date/Time | Ending Date/Time | | | | | S | M | Z | | | | | | | |
| * 01-01 | SP-01 | 2/5/16 | 8:00 | X | | S | U | X | | | | | | | | | |
| 02 | SP-01 | | 8:00 | | X | S | U | | X | | | | | | | | |
| * 02-03 | SP-02 | | 7:38 | X | | S | U | X | | | | | | | | | |
| 04 | SP-02 | | 7:30 | | X | S | U | | X | | | | | | | | |
| | * reactivated for TCLP Pb (SP-01) and TCLP Pb & TCLP Cr (SP-02) (KM) | | | | | | | | | | | | | | | | |

Comments: National Fire Project VDA's frozen on 2/5/16 11:40 AM
 * Please run TCLP for any metals that exceed limits for total metals

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) <u>Thomas A. Theodorakis</u> | Date/Time: 2/9 12 - |
| Received by: (signature) <u>Joe ELP</u> | Date/Time: 2/9 4:35 |
| Relinquished by: (signature) <u>Joe ELP</u> | Date/Time: 2/9 16:35 |
| Received by: (signature) <u>WLS</u> | Date/Time: 2/9/16 16:35 |

Turnaround ^{††}
 7-Day
 10-Day
 Other 5 day
 RUSH [†]
 1/24-Hr 1/48-Hr
 1/72-Hr 1/4-Day
 Require lab approval

Detection Limit Requirements
 Massachusetts:
 Connecticut:
 Other: RI - Residential

Is your project MCP or RCP ?
 MCP Form Required
 RCP Form Required
 MA State DW Form Required
 PWSID # Frozen: 2/9/16 1635

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

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

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

February 18, 2016

Environmental AP
Coneco Engineers & Scientists, Inc.
4 First Street
Bridgewater, MA 02324

Project Location: 434 Allens Ave., Providence, RI
Client Job Number:
Project Number: 7400.B
Laboratory Work Order Number: 16B0521

Enclosed are results of analyses for samples received by the laboratory on February 11, 2016. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Steven Case", written in a cursive style.

Steven M. Case
Project Manager

Table of Contents

| | |
|--------------------------------------------------------|-----|
| Sample Summary | 4 |
| Case Narrative | 7 |
| Sample Results | 10 |
| 16B0521-01 | 10 |
| 16B0521-02 | 16 |
| 16B0521-03 | 22 |
| 16B0521-04 | 28 |
| 16B0521-05 | 34 |
| 16B0521-06 | 40 |
| 16B0521-07 | 46 |
| 16B0521-08 | 52 |
| 16B0521-09 | 58 |
| 16B0521-10 | 64 |
| 16B0521-11 | 70 |
| 16B0521-12 | 76 |
| 16B0521-13 | 82 |
| Sample Preparation Information | 88 |
| QC Data | 91 |
| Volatile Organic Compounds by GC/MS | 91 |
| B142050 | 91 |
| B142076 | 95 |
| B142078 | 100 |
| Polychlorinated Biphenyls with 3540 Soxhlet Extraction | 106 |
| B142028 | 106 |
| Petroleum Hydrocarbons Analyses | 108 |

Table of Contents (continued)

| | |
|----------------------------------------------------------------------|-----|
| B142014 | 108 |
| Metals Analyses (Total) | 109 |
| B141991 | 109 |
| B142087 | 110 |
| Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) | 111 |
| B142113 | 111 |
| Dual Column RPD Report | 112 |
| Flag/Qualifier Summary | 120 |
| Certifications | 121 |
| Chain of Custody/Sample Receipt | 125 |

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

Coneco Engineers & Scientists, Inc.
 4 First Street
 Bridgewater, MA 02324
 ATTN: Environmental AP

REPORT DATE: 2/18/2016

PURCHASE ORDER NUMBER: 7400.B

PROJECT NUMBER: 7400.B

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 16B0521

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

PROJECT LOCATION: 434 Allens Ave., Providence, RI

| FIELD SAMPLE # | LAB ID: | MATRIX | SAMPLE DESCRIPTION | TEST | SUB LAB |
|-----------------------|------------|--------|--------------------|--------------------------------------------------------------------------------------------------|---------|
| SB-01, SS-05 (8-10') | 16B0521-01 | Soil | | SM 2540G SW-846 6010C SW-846 7471B SW-846 8082A SW-846 8100 Modified SW-846 8260C | |
| SB-02, SS-01 (0-2') | 16B0521-02 | Soil | | SM 2540G SW-846 6010C SW-846 7471B SW-846 8082A SW-846 8100 Modified SW-846 8260C | |
| SB-02, SS-03 (4-6') | 16B0521-03 | Soil | | SM 2540G SW-846 6010C SW-846 7471B SW-846 8082A SW-846 8100 Modified SW-846 8260C | |
| SB-03, SS-07 (12-14') | 16B0521-04 | Soil | | SM 2540G SW-846 6010C SW-846 7471B SW-846 8082A SW-846 8100 Modified SW-846 8260C | |
| SB-04, SS-04 (6-8') | 16B0521-05 | Soil | | SM 2540G SW-846 6010C SW-846 7471B SW-846 8082A SW-846 8100 Modified SW-846 8260C | |
| SB-05, SS-04 (6-8') | 16B0521-06 | Soil | | SM 2540G SW-846 6010C SW-846 7471B SW-846 8082A SW-846 8100 Modified SW-846 8260C | |

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REPORT DATE: 2/18/2016

PURCHASE ORDER NUMBER: 7400.B

PROJECT NUMBER: 7400.B

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 16B0521

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

PROJECT LOCATION: 434 Allens Ave., Providence, RI

| FIELD SAMPLE # | LAB ID: | MATRIX | SAMPLE DESCRIPTION | TEST | SUB LAB |
|----------------------|------------|--------|--------------------|--------------------------------------------------------------------------------------------------|---------|
| SB-06, SS-05 (8-10') | 16B0521-07 | Soil | | SM 2540G SW-846 6010C SW-846 7471B SW-846 8082A SW-846 8100 Modified SW-846 8260C | |
| SB-07, SS-02 (2-4') | 16B0521-08 | Soil | | SM 2540G SW-846 6010C SW-846 7471B SW-846 8082A SW-846 8100 Modified SW-846 8260C | |
| SB-08, SS-05 (8-10') | 16B0521-09 | Soil | | SM 2540G SW-846 6010C SW-846 7471B SW-846 8082A SW-846 8100 Modified SW-846 8260C | |
| SB-09, SS-01 (0-2') | 16B0521-10 | Soil | | SM 2540G SW-846 6010C SW-846 7471B SW-846 8082A SW-846 8100 Modified SW-846 8260C | |
| SB-09, SS-03 (4-6') | 16B0521-11 | Soil | | SM 2540G SW-846 6010C SW-846 7471B SW-846 8082A SW-846 8100 Modified SW-846 8260C | |
| SB-10, SS-05 (8-10') | 16B0521-12 | Soil | | SM 2540G SW-846 6010C SW-846 7471B SW-846 8082A SW-846 8100 Modified SW-846 8260C | |

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Coneco Engineers & Scientists, Inc.
 4 First Street
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 ATTN: Environmental AP

REPORT DATE: 2/18/2016

PURCHASE ORDER NUMBER: 7400.B

PROJECT NUMBER: 7400.B

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 16B0521

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

PROJECT LOCATION: 434 Allens Ave., Providence, RI

| FIELD SAMPLE # | LAB ID: | MATRIX | SAMPLE DESCRIPTION | TEST | SUB LAB |
|---------------------|------------|--------|--------------------|--------------------------------------------------------------------------------------------------|---------|
| SB-11, SS-03 (4-6') | 16B0521-13 | Soil | | SM 2540G SW-846 6010C SW-846 7471B SW-846 8082A SW-846 8100 Modified SW-846 8260C | |

CASE NARRATIVE SUMMARY

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

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332
SW-846 7471B

Qualifications:**MS-11**

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

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

16B0521-01[SB-01, SS-05 (8-10)], B142087-MS1

SW-846 8082A

Qualifications:**MS-21**

Matrix spike and/or spike duplicate recovery bias high due to contribution of other Aroclors present in the source sample.

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

B142028-MS1, B142028-MSD1

Aroclor-1016 [2C]

B142028-MS1, B142028-MSD1

Aroclor-1260

B142028-MS1, B142028-MSD1

Aroclor-1260 [2C]

B142028-MS1, B142028-MSD1

SW-846 8100 Modified

Qualifications:**S-01**

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

Analyte & Samples(s) Qualified:**o-Terphenyl**

16B0521-02[SB-02, SS-01 (0-2)], 16B0521-08[SB-07, SS-02 (2-4)], 16B0521-10[SB-09, SS-01 (0-2)]

SW-846 8260C

Qualifications:**L-04**

Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.

Analyte & Samples(s) Qualified:**2-Butanone (MEK)**

16B0521-02[SB-02, SS-01 (0-2)], 16B0521-04[SB-03, SS-07 (12-14)], 16B0521-08[SB-07, SS-02 (2-4)], B142050-BLK1, B142050-BS1, B142050-BSD1

Bromomethane

16B0521-07[SB-06, SS-05 (8-10)], 16B0521-09[SB-08, SS-05 (8-10)], 16B0521-10[SB-09, SS-01 (0-2)], 16B0521-11[SB-09, SS-03 (4-6)], 16B0521-12[SB-10, SS-05 (8-10)], 16B0521-13[SB-11, SS-03 (4-6)], B142078-BLK1, B142078-BS1, B142078-BSD1

L-07

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

Analyte & Samples(s) Qualified:**1,2-Dibromo-3-chloropropane (DB)**

B142078-BS1

1,3,5-Trimethylbenzene

B142076-BSD1

2,2-Dichloropropane

B142078-BSD1

2-Hexanone (MBK)

B142050-BSD1

Chloromethane

B142078-BS1

trans-1,3-Dichloropropene

B142078-BSD1

L-07A

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

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

B142078-BSD1

R-05

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

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

16B0521-07[SB-06, SS-05 (8-10)], 16B0521-09[SB-08, SS-05 (8-10)], 16B0521-10[SB-09, SS-01 (0-2)], 16B0521-11[SB-09, SS-03 (4-6)], 16B0521-12[SB-10, SS-05 (8-10)], 16B0521-13[SB-11, SS-03 (4-6)], B142078-BLK1, B142078-BS1, B142078-BSD1

Chloroethane

16B0521-07[SB-06, SS-05 (8-10)], 16B0521-09[SB-08, SS-05 (8-10)], 16B0521-10[SB-09, SS-01 (0-2)], 16B0521-11[SB-09, SS-03 (4-6)], 16B0521-12[SB-10, SS-05 (8-10)], 16B0521-13[SB-11, SS-03 (4-6)], B142078-BLK1, B142078-BS1, B142078-BSD1

Dichlorodifluoromethane (Freon 1)

16B0521-07[SB-06, SS-05 (8-10)], 16B0521-09[SB-08, SS-05 (8-10)], 16B0521-10[SB-09, SS-01 (0-2)], 16B0521-11[SB-09, SS-03 (4-6)], 16B0521-12[SB-10, SS-05 (8-10)], 16B0521-13[SB-11, SS-03 (4-6)], B142078-BLK1, B142078-BS1, B142078-BSD1

RL-11

Elevated reporting limit due to high concentration of target compounds.

Analyte & Samples(s) Qualified:

16B0521-08[SB-07, SS-02 (2-4)]

V-05

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

Analyte & Samples(s) Qualified:**1,2,4-Trichlorobenzene**

16B0521-07[SB-06, SS-05 (8-10)], 16B0521-09[SB-08, SS-05 (8-10)], 16B0521-10[SB-09, SS-01 (0-2)], 16B0521-11[SB-09, SS-03 (4-6)], 16B0521-12[SB-10, SS-05 (8-10)], 16B0521-13[SB-11, SS-03 (4-6)], B142078-BLK1, B142078-BS1, B142078-BSD1

Naphthalene

16B0521-01[SB-01, SS-05 (8-10)], 16B0521-03[SB-02, SS-03 (4-6)], 16B0521-05[SB-04, SS-04 (6-8)], 16B0521-06[SB-05, SS-04 (6-8)], 16B0521-07[SB-06, SS-05 (8-10)], 16B0521-09[SB-08, SS-05 (8-10)], 16B0521-10[SB-09, SS-01 (0-2)], 16B0521-11[SB-09, SS-03 (4-6)], 16B0521-12[SB-10, SS-05 (8-10)], 16B0521-13[SB-11, SS-03 (4-6)], B142076-BLK1, B142076-BS1, B142076-BSD1, B142078-BLK1, B142078-BS1, B142078-BSD1

V-20

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

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

B142050-BS1, B142050-BSD1

SW-846 8100 Modified

TPH (C9-C36) is quantitated against a calibration made with a diesel standard.

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

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



Tod E. Kopyscinski
Laboratory Director

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0521

Date Received: 2/11/2016

Field Sample #: SB-01, SS-05 (8-10')

Sampled: 2/9/2016 09:22

Sample ID: 16B0521-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|------------------------------------|---------|--------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Acetone | 0.23 | 0.14 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 14:43 | MFF |
| Acrylonitrile | ND | 0.0082 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 14:43 | MFF |
| tert-Amyl Methyl Ether (TAME) | ND | 0.0014 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 14:43 | MFF |
| Benzene | ND | 0.0027 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 14:43 | MFF |
| Bromobenzene | ND | 0.0027 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 14:43 | MFF |
| Bromochloromethane | ND | 0.0027 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 14:43 | MFF |
| Bromodichloromethane | ND | 0.0027 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 14:43 | MFF |
| Bromoform | ND | 0.0027 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 14:43 | MFF |
| Bromomethane | ND | 0.014 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 14:43 | MFF |
| 2-Butanone (MEK) | ND | 0.054 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 14:43 | MFF |
| tert-Butyl Alcohol (TBA) | ND | 0.054 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 14:43 | MFF |
| n-Butylbenzene | ND | 0.0027 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 14:43 | MFF |
| sec-Butylbenzene | ND | 0.0027 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 14:43 | MFF |
| tert-Butylbenzene | ND | 0.0027 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 14:43 | MFF |
| tert-Butyl Ethyl Ether (TBEE) | ND | 0.0014 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 14:43 | MFF |
| Carbon Disulfide | ND | 0.0082 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 14:43 | MFF |
| Carbon Tetrachloride | ND | 0.0027 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 14:43 | MFF |
| Chlorobenzene | ND | 0.0027 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 14:43 | MFF |
| Chlorodibromomethane | ND | 0.0014 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 14:43 | MFF |
| Chloroethane | ND | 0.027 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 14:43 | MFF |
| Chloroform | ND | 0.0054 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 14:43 | MFF |
| Chloromethane | ND | 0.014 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 14:43 | MFF |
| 2-Chlorotoluene | ND | 0.0027 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 14:43 | MFF |
| 4-Chlorotoluene | ND | 0.0027 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 14:43 | MFF |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 0.0027 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 14:43 | MFF |
| 1,2-Dibromoethane (EDB) | ND | 0.0014 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 14:43 | MFF |
| Dibromomethane | ND | 0.0027 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 14:43 | MFF |
| 1,2-Dichlorobenzene | ND | 0.0027 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 14:43 | MFF |
| 1,3-Dichlorobenzene | ND | 0.0027 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 14:43 | MFF |
| 1,4-Dichlorobenzene | ND | 0.0027 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 14:43 | MFF |
| trans-1,4-Dichloro-2-butene | ND | 0.0054 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 14:43 | MFF |
| Dichlorodifluoromethane (Freon 12) | ND | 0.027 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 14:43 | MFF |
| 1,1-Dichloroethane | ND | 0.0027 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 14:43 | MFF |
| 1,2-Dichloroethane | ND | 0.0027 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 14:43 | MFF |
| 1,1-Dichloroethylene | ND | 0.0054 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 14:43 | MFF |
| cis-1,2-Dichloroethylene | ND | 0.0027 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 14:43 | MFF |
| trans-1,2-Dichloroethylene | ND | 0.0027 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 14:43 | MFF |
| 1,2-Dichloropropane | ND | 0.0027 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 14:43 | MFF |
| 1,3-Dichloropropane | ND | 0.0014 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 14:43 | MFF |
| 2,2-Dichloropropane | ND | 0.0027 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 14:43 | MFF |
| 1,1-Dichloropropene | ND | 0.0027 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 14:43 | MFF |
| cis-1,3-Dichloropropene | ND | 0.0014 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 14:43 | MFF |
| trans-1,3-Dichloropropene | ND | 0.0014 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 14:43 | MFF |
| Diethyl Ether | ND | 0.027 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 14:43 | MFF |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0521

Date Received: 2/11/2016

Field Sample #: SB-01, SS-05 (8-10')

Sampled: 2/9/2016 09:22

Sample ID: 16B0521-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---------------------------------------------------|---------|--------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Diisopropyl Ether (DIPE) | ND | 0.0014 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 14:43 | MFF |
| 1,4-Dioxane | ND | 0.14 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 14:43 | MFF |
| Ethylbenzene | ND | 0.0027 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 14:43 | MFF |
| Hexachlorobutadiene | ND | 0.0027 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 14:43 | MFF |
| 2-Hexanone (MBK) | ND | 0.027 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 14:43 | MFF |
| Isopropylbenzene (Cumene) | ND | 0.0027 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 14:43 | MFF |
| p-Isopropyltoluene (p-Cymene) | ND | 0.0027 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 14:43 | MFF |
| Methyl tert-Butyl Ether (MTBE) | ND | 0.0054 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 14:43 | MFF |
| Methylene Chloride | ND | 0.027 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 14:43 | MFF |
| 4-Methyl-2-pentanone (MIBK) | ND | 0.027 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 14:43 | MFF |
| Naphthalene | ND | 0.0054 | mg/Kg dry | 1 | V-05 | SW-846 8260C | 2/12/16 | 2/12/16 14:43 | MFF |
| n-Propylbenzene | ND | 0.0027 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 14:43 | MFF |
| Styrene | ND | 0.0027 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 14:43 | MFF |
| 1,1,1,2-Tetrachloroethane | ND | 0.0027 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 14:43 | MFF |
| 1,1,2,2-Tetrachloroethane | ND | 0.0014 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 14:43 | MFF |
| Tetrachloroethylene | ND | 0.0027 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 14:43 | MFF |
| Tetrahydrofuran | ND | 0.014 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 14:43 | MFF |
| Toluene | ND | 0.0027 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 14:43 | MFF |
| 1,2,3-Trichlorobenzene | ND | 0.0027 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 14:43 | MFF |
| 1,2,4-Trichlorobenzene | ND | 0.0027 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 14:43 | MFF |
| 1,3,5-Trichlorobenzene | ND | 0.0027 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 14:43 | MFF |
| 1,1,1-Trichloroethane | ND | 0.0027 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 14:43 | MFF |
| 1,1,2-Trichloroethane | ND | 0.0027 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 14:43 | MFF |
| Trichloroethylene | ND | 0.0027 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 14:43 | MFF |
| Trichlorofluoromethane (Freon 11) | ND | 0.014 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 14:43 | MFF |
| 1,2,3-Trichloropropane | ND | 0.0027 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 14:43 | MFF |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | ND | 0.014 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 14:43 | MFF |
| 1,2,4-Trimethylbenzene | ND | 0.0027 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 14:43 | MFF |
| 1,3,5-Trimethylbenzene | ND | 0.0027 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 14:43 | MFF |
| Vinyl Chloride | ND | 0.014 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 14:43 | MFF |
| m+p Xylene | ND | 0.0054 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 14:43 | MFF |
| o-Xylene | ND | 0.0027 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 14:43 | MFF |

| Surrogates | % Recovery | Recovery Limits | Flag/Qual |
|-----------------------|------------|-----------------|---------------|
| 1,2-Dichloroethane-d4 | 111 | 70-130 | 2/12/16 14:43 |
| Toluene-d8 | 97.7 | 70-130 | 2/12/16 14:43 |
| 4-Bromofluorobenzene | 92.1 | 70-130 | 2/12/16 14:43 |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0521

Date Received: 2/11/2016

Field Sample #: SB-01, SS-05 (8-10')

Sampled: 2/9/2016 09:22

Sample ID: 16B0521-01

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|--------------------------|---------|------------|-----------------|----------|-----------|--------------|---------------|--------------------|---------|
| Aroclor-1016 [1] | ND | 0.16 | mg/Kg dry | 5 | | SW-846 8082A | 2/12/16 | 2/16/16 13:57 | KAL |
| Aroclor-1221 [1] | ND | 0.16 | mg/Kg dry | 5 | | SW-846 8082A | 2/12/16 | 2/16/16 13:57 | KAL |
| Aroclor-1232 [1] | ND | 0.16 | mg/Kg dry | 5 | | SW-846 8082A | 2/12/16 | 2/16/16 13:57 | KAL |
| Aroclor-1242 [1] | ND | 0.16 | mg/Kg dry | 5 | | SW-846 8082A | 2/12/16 | 2/16/16 13:57 | KAL |
| Aroclor-1248 [1] | ND | 0.16 | mg/Kg dry | 5 | | SW-846 8082A | 2/12/16 | 2/16/16 13:57 | KAL |
| Aroclor-1254 [1] | ND | 0.16 | mg/Kg dry | 5 | | SW-846 8082A | 2/12/16 | 2/16/16 13:57 | KAL |
| Aroclor-1260 [1] | ND | 0.16 | mg/Kg dry | 5 | | SW-846 8082A | 2/12/16 | 2/16/16 13:57 | KAL |
| Aroclor-1262 [1] | ND | 0.16 | mg/Kg dry | 5 | | SW-846 8082A | 2/12/16 | 2/16/16 13:57 | KAL |
| Aroclor-1268 [1] | ND | 0.16 | mg/Kg dry | 5 | | SW-846 8082A | 2/12/16 | 2/16/16 13:57 | KAL |
| Surrogates | | % Recovery | Recovery Limits | | Flag/Qual | | | | |
| Decachlorobiphenyl [1] | | 74.3 | 30-150 | | | | | 2/16/16 13:57 | |
| Decachlorobiphenyl [2] | | 82.4 | 30-150 | | | | | 2/16/16 13:57 | |
| Tetrachloro-m-xylene [1] | | 83.1 | 30-150 | | | | | 2/16/16 13:57 | |
| Tetrachloro-m-xylene [2] | | 83.1 | 30-150 | | | | | 2/16/16 13:57 | |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0521

Date Received: 2/11/2016

Field Sample #: SB-01, SS-05 (8-10')

Sampled: 2/9/2016 09:22

Sample ID: 16B0521-01

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|-------------------|---------|-------------------|------------------------|----------|------------------|----------------------|---------------|--------------------|---------|
| TPH (C9-C36) | 1000 | 65 | mg/Kg dry | 5 | | SW-846 8100 Modified | 2/12/16 | 2/15/16 18:36 | SCS |
| Surrogates | | % Recovery | Recovery Limits | | Flag/Qual | | | | |
| o-Terphenyl | | 81.0 | 40-140 | | | | | 2/15/16 18:36 | |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0521

Date Received: 2/11/2016

Field Sample #: SB-01, SS-05 (8-10')

Sampled: 2/9/2016 09:22

Sample ID: 16B0521-01

Sample Matrix: Soil

Metals Analyses (Total)

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|----------|---------|------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Arsenic | 26 | 3.8 | mg/Kg dry | 1 | | SW-846 6010C | 2/11/16 | 2/15/16 13:33 | AME |
| Barium | 600 | 3.8 | mg/Kg dry | 1 | | SW-846 6010C | 2/11/16 | 2/12/16 19:32 | AME |
| Cadmium | 1.9 | 0.38 | mg/Kg dry | 1 | | SW-846 6010C | 2/11/16 | 2/12/16 19:32 | AME |
| Chromium | 16 | 0.77 | mg/Kg dry | 1 | | SW-846 6010C | 2/11/16 | 2/12/16 19:32 | AME |
| Lead | 610 | 1.2 | mg/Kg dry | 1 | | SW-846 6010C | 2/11/16 | 2/12/16 19:32 | AME |
| Mercury | 1.4 | 0.38 | mg/Kg dry | 10 | MS-11 | SW-846 7471B | 2/12/16 | 2/16/16 9:21 | SCB |
| Selenium | ND | 7.7 | mg/Kg dry | 1 | | SW-846 6010C | 2/11/16 | 2/12/16 19:32 | AME |
| Silver | ND | 0.77 | mg/Kg dry | 1 | | SW-846 6010C | 2/11/16 | 2/12/16 19:32 | AME |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0521

Date Received: 2/11/2016

Field Sample #: SB-01, SS-05 (8-10')

Sampled: 2/9/2016 09:22

Sample ID: 16B0521-01

Sample Matrix: Soil

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

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|---------------|--------------------|---------|
| % Solids | 63.9 | | % Wt | 1 | | SM 2540G | 2/13/16 | 2/15/16 8:17 | MRL |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0521

Date Received: 2/11/2016

Field Sample #: SB-02, SS-01 (0-2')

Sampled: 2/9/2016 09:50

Sample ID: 16B0521-02

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|------------------------------------|---------|-------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Acetone | ND | 3.1 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 14:52 | MFF |
| Acrylonitrile | ND | 0.31 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 14:52 | MFF |
| tert-Amyl Methyl Ether (TAME) | ND | 0.031 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 14:52 | MFF |
| Benzene | 0.080 | 0.062 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 14:52 | MFF |
| Bromobenzene | ND | 0.062 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 14:52 | MFF |
| Bromochloromethane | ND | 0.062 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 14:52 | MFF |
| Bromodichloromethane | ND | 0.062 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 14:52 | MFF |
| Bromoform | ND | 0.062 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 14:52 | MFF |
| Bromomethane | ND | 0.12 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 14:52 | MFF |
| 2-Butanone (MEK) | ND | 1.2 | mg/Kg dry | 1 | L-04 | SW-846 8260C | 2/12/16 | 2/17/16 14:52 | MFF |
| tert-Butyl Alcohol (TBA) | ND | 1.2 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 14:52 | MFF |
| n-Butylbenzene | 0.063 | 0.062 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 14:52 | MFF |
| sec-Butylbenzene | ND | 0.062 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 14:52 | MFF |
| tert-Butylbenzene | ND | 0.062 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 14:52 | MFF |
| tert-Butyl Ethyl Ether (TBEE) | ND | 0.031 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 14:52 | MFF |
| Carbon Disulfide | ND | 0.19 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 14:52 | MFF |
| Carbon Tetrachloride | ND | 0.062 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 14:52 | MFF |
| Chlorobenzene | ND | 0.062 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 14:52 | MFF |
| Chlorodibromomethane | ND | 0.031 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 14:52 | MFF |
| Chloroethane | ND | 0.12 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 14:52 | MFF |
| Chloroform | ND | 0.12 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 14:52 | MFF |
| Chloromethane | ND | 0.12 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 14:52 | MFF |
| 2-Chlorotoluene | ND | 0.062 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 14:52 | MFF |
| 4-Chlorotoluene | ND | 0.062 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 14:52 | MFF |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 0.31 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 14:52 | MFF |
| 1,2-Dibromoethane (EDB) | ND | 0.031 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 14:52 | MFF |
| Dibromomethane | ND | 0.062 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 14:52 | MFF |
| 1,2-Dichlorobenzene | ND | 0.062 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 14:52 | MFF |
| 1,3-Dichlorobenzene | ND | 0.062 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 14:52 | MFF |
| 1,4-Dichlorobenzene | ND | 0.062 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 14:52 | MFF |
| trans-1,4-Dichloro-2-butene | ND | 0.12 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 14:52 | MFF |
| Dichlorodifluoromethane (Freon 12) | ND | 0.12 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 14:52 | MFF |
| 1,1-Dichloroethane | ND | 0.062 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 14:52 | MFF |
| 1,2-Dichloroethane | ND | 0.062 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 14:52 | MFF |
| 1,1-Dichloroethylene | ND | 0.062 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 14:52 | MFF |
| cis-1,2-Dichloroethylene | ND | 0.062 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 14:52 | MFF |
| trans-1,2-Dichloroethylene | ND | 0.062 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 14:52 | MFF |
| 1,2-Dichloropropane | ND | 0.062 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 14:52 | MFF |
| 1,3-Dichloropropane | ND | 0.031 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 14:52 | MFF |
| 2,2-Dichloropropane | ND | 0.062 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 14:52 | MFF |
| 1,1-Dichloropropene | ND | 0.12 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 14:52 | MFF |
| cis-1,3-Dichloropropene | ND | 0.031 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 14:52 | MFF |
| trans-1,3-Dichloropropene | ND | 0.031 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 14:52 | MFF |
| Diethyl Ether | ND | 0.12 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 14:52 | MFF |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0521

Date Received: 2/11/2016

Field Sample #: SB-02, SS-01 (0-2')

Sampled: 2/9/2016 09:50

Sample ID: 16B0521-02

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---------------------------------------------------|------------|-----------------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Diisopropyl Ether (DIPE) | ND | 0.031 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 14:52 | MFF |
| 1,4-Dioxane | ND | 3.1 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 14:52 | MFF |
| Ethylbenzene | 0.40 | 0.062 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 14:52 | MFF |
| Hexachlorobutadiene | ND | 0.062 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 14:52 | MFF |
| 2-Hexanone (MBK) | ND | 0.62 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 14:52 | MFF |
| Isopropylbenzene (Cumene) | 0.11 | 0.062 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 14:52 | MFF |
| p-Isopropyltoluene (p-Cymene) | ND | 0.062 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 14:52 | MFF |
| Methyl Acetate | ND | 0.62 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 14:52 | MFF |
| Methyl tert-Butyl Ether (MTBE) | ND | 0.062 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 14:52 | MFF |
| Methyl Cyclohexane | 0.38 | 0.062 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 14:52 | MFF |
| Methylene Chloride | ND | 0.31 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 14:52 | MFF |
| 4-Methyl-2-pentanone (MIBK) | ND | 0.62 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 14:52 | MFF |
| Naphthalene | 0.15 | 0.12 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 14:52 | MFF |
| n-Propylbenzene | 0.42 | 0.062 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 14:52 | MFF |
| Styrene | 0.11 | 0.062 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 14:52 | MFF |
| 1,1,1,2-Tetrachloroethane | ND | 0.062 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 14:52 | MFF |
| 1,1,2,2-Tetrachloroethane | ND | 0.031 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 14:52 | MFF |
| Tetrachloroethylene | ND | 0.062 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 14:52 | MFF |
| Tetrahydrofuran | ND | 0.62 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 14:52 | MFF |
| Toluene | 0.73 | 0.062 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 14:52 | MFF |
| 1,2,3-Trichlorobenzene | ND | 0.31 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 14:52 | MFF |
| 1,2,4-Trichlorobenzene | ND | 0.062 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 14:52 | MFF |
| 1,3,5-Trichlorobenzene | ND | 0.062 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 14:52 | MFF |
| 1,1,1-Trichloroethane | ND | 0.062 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 14:52 | MFF |
| 1,1,2-Trichloroethane | ND | 0.062 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 14:52 | MFF |
| Trichloroethylene | ND | 0.062 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 14:52 | MFF |
| Trichlorofluoromethane (Freon 11) | 0.65 | 0.12 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 14:52 | MFF |
| 1,2,3-Trichloropropane | ND | 0.12 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 14:52 | MFF |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | ND | 0.062 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 14:52 | MFF |
| 1,2,4-Trimethylbenzene | 1.5 | 0.062 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 14:52 | MFF |
| 1,3,5-Trimethylbenzene | 1.3 | 0.062 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 14:52 | MFF |
| Vinyl Chloride | ND | 0.12 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 14:52 | MFF |
| m+p Xylene | 1.6 | 0.12 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 14:52 | MFF |
| o-Xylene | 1.4 | 0.062 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 14:52 | MFF |
| Surrogates | % Recovery | Recovery Limits | Flag/Qual | | | | | | |
| 1,2-Dichloroethane-d4 | 97.8 | 70-130 | | | | | | 2/17/16 14:52 | |
| Toluene-d8 | 99.7 | 70-130 | | | | | | 2/17/16 14:52 | |
| 4-Bromofluorobenzene | 103 | 70-130 | | | | | | 2/17/16 14:52 | |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0521

Date Received: 2/11/2016

Field Sample #: SB-02, SS-01 (0-2')

Sampled: 2/9/2016 09:50

Sample ID: 16B0521-02

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|--------------------------|---------|------------|-----------------|----------|-----------|--------------|---------------|--------------------|---------|
| Aroclor-1016 [1] | ND | 0.57 | mg/Kg dry | 25 | | SW-846 8082A | 2/12/16 | 2/16/16 20:07 | KAL |
| Aroclor-1221 [1] | ND | 0.57 | mg/Kg dry | 25 | | SW-846 8082A | 2/12/16 | 2/16/16 20:07 | KAL |
| Aroclor-1232 [1] | ND | 0.57 | mg/Kg dry | 25 | | SW-846 8082A | 2/12/16 | 2/16/16 20:07 | KAL |
| Aroclor-1242 [1] | ND | 0.57 | mg/Kg dry | 25 | | SW-846 8082A | 2/12/16 | 2/16/16 20:07 | KAL |
| Aroclor-1248 [2] | 1.7 | 0.57 | mg/Kg dry | 25 | | SW-846 8082A | 2/12/16 | 2/16/16 20:07 | KAL |
| Aroclor-1254 [2] | 2.8 | 0.57 | mg/Kg dry | 25 | | SW-846 8082A | 2/12/16 | 2/16/16 20:07 | KAL |
| Aroclor-1260 [1] | ND | 0.57 | mg/Kg dry | 25 | | SW-846 8082A | 2/12/16 | 2/16/16 20:07 | KAL |
| Aroclor-1262 [1] | ND | 0.57 | mg/Kg dry | 25 | | SW-846 8082A | 2/12/16 | 2/16/16 20:07 | KAL |
| Aroclor-1268 [1] | ND | 0.57 | mg/Kg dry | 25 | | SW-846 8082A | 2/12/16 | 2/16/16 20:07 | KAL |
| Surrogates | | % Recovery | Recovery Limits | | Flag/Qual | | | | |
| Decachlorobiphenyl [1] | | 78.7 | 30-150 | | | | | 2/16/16 20:07 | |
| Decachlorobiphenyl [2] | | 85.5 | 30-150 | | | | | 2/16/16 20:07 | |
| Tetrachloro-m-xylene [1] | | 86.3 | 30-150 | | | | | 2/16/16 20:07 | |
| Tetrachloro-m-xylene [2] | | 87.5 | 30-150 | | | | | 2/16/16 20:07 | |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0521

Date Received: 2/11/2016

Field Sample #: SB-02, SS-01 (0-2')

Sampled: 2/9/2016 09:50

Sample ID: 16B0521-02

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|--------------|------------|-----|-----------------|-----------|-----------|----------------------|---------------|--------------------|---------|
| TPH (C9-C36) | 5800 | 370 | mg/Kg dry | 20 | | SW-846 8100 Modified | 2/12/16 | 2/15/16 18:54 | SCS |
| Surrogates | % Recovery | | Recovery Limits | Flag/Qual | | | | | |
| o-Terphenyl | * | | 40-140 | S-01 | | 2/15/16 18:54 | | | |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0521

Date Received: 2/11/2016

Field Sample #: SB-02, SS-01 (0-2')

Sampled: 2/9/2016 09:50

Sample ID: 16B0521-02

Sample Matrix: Soil

Metals Analyses (Total)

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|----------|---------|------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Arsenic | 5.9 | 2.8 | mg/Kg dry | 1 | | SW-846 6010C | 2/11/16 | 2/15/16 13:38 | AME |
| Barium | 140 | 2.8 | mg/Kg dry | 1 | | SW-846 6010C | 2/11/16 | 2/12/16 19:38 | AME |
| Cadmium | 3.9 | 0.28 | mg/Kg dry | 1 | | SW-846 6010C | 2/11/16 | 2/12/16 19:38 | AME |
| Chromium | 77 | 0.56 | mg/Kg dry | 1 | | SW-846 6010C | 2/11/16 | 2/12/16 19:38 | AME |
| Lead | 280 | 0.84 | mg/Kg dry | 1 | | SW-846 6010C | 2/11/16 | 2/12/16 19:38 | AME |
| Mercury | 0.91 | 0.27 | mg/Kg dry | 10 | | SW-846 7471B | 2/12/16 | 2/16/16 8:42 | SCB |
| Selenium | ND | 5.6 | mg/Kg dry | 1 | | SW-846 6010C | 2/11/16 | 2/12/16 19:38 | AME |
| Silver | 2.4 | 0.56 | mg/Kg dry | 1 | | SW-846 6010C | 2/11/16 | 2/12/16 19:38 | AME |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0521

Date Received: 2/11/2016

Field Sample #: SB-02, SS-01 (0-2')

Sampled: 2/9/2016 09:50

Sample ID: 16B0521-02

Sample Matrix: Soil

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

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|---------------|--------------------|---------|
| % Solids | 87.1 | | % Wt | 1 | | SM 2540G | 2/13/16 | 2/15/16 8:17 | MRL |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0521

Date Received: 2/11/2016

Field Sample #: SB-02, SS-03 (4-6')

Sampled: 2/9/2016 10:00

Sample ID: 16B0521-03

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|------------------------------------|---------|--------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Acetone | 0.16 | 0.11 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:11 | MFF |
| Acrylonitrile | ND | 0.0066 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:11 | MFF |
| tert-Amyl Methyl Ether (TAME) | ND | 0.0011 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:11 | MFF |
| Benzene | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:11 | MFF |
| Bromobenzene | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:11 | MFF |
| Bromochloromethane | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:11 | MFF |
| Bromodichloromethane | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:11 | MFF |
| Bromoform | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:11 | MFF |
| Bromomethane | ND | 0.011 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:11 | MFF |
| 2-Butanone (MEK) | ND | 0.044 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:11 | MFF |
| tert-Butyl Alcohol (TBA) | ND | 0.044 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:11 | MFF |
| n-Butylbenzene | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:11 | MFF |
| sec-Butylbenzene | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:11 | MFF |
| tert-Butylbenzene | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:11 | MFF |
| tert-Butyl Ethyl Ether (TBEE) | ND | 0.0011 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:11 | MFF |
| Carbon Disulfide | ND | 0.0066 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:11 | MFF |
| Carbon Tetrachloride | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:11 | MFF |
| Chlorobenzene | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:11 | MFF |
| Chlorodibromomethane | ND | 0.0011 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:11 | MFF |
| Chloroethane | ND | 0.022 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:11 | MFF |
| Chloroform | ND | 0.0044 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:11 | MFF |
| Chloromethane | ND | 0.011 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:11 | MFF |
| 2-Chlorotoluene | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:11 | MFF |
| 4-Chlorotoluene | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:11 | MFF |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:11 | MFF |
| 1,2-Dibromoethane (EDB) | ND | 0.0011 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:11 | MFF |
| Dibromomethane | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:11 | MFF |
| 1,2-Dichlorobenzene | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:11 | MFF |
| 1,3-Dichlorobenzene | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:11 | MFF |
| 1,4-Dichlorobenzene | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:11 | MFF |
| trans-1,4-Dichloro-2-butene | ND | 0.0044 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:11 | MFF |
| Dichlorodifluoromethane (Freon 12) | ND | 0.022 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:11 | MFF |
| 1,1-Dichloroethane | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:11 | MFF |
| 1,2-Dichloroethane | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:11 | MFF |
| 1,1-Dichloroethylene | ND | 0.0044 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:11 | MFF |
| cis-1,2-Dichloroethylene | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:11 | MFF |
| trans-1,2-Dichloroethylene | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:11 | MFF |
| 1,2-Dichloropropane | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:11 | MFF |
| 1,3-Dichloropropane | ND | 0.0011 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:11 | MFF |
| 2,2-Dichloropropane | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:11 | MFF |
| 1,1-Dichloropropene | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:11 | MFF |
| cis-1,3-Dichloropropene | ND | 0.0011 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:11 | MFF |
| trans-1,3-Dichloropropene | ND | 0.0011 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:11 | MFF |
| Diethyl Ether | ND | 0.022 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:11 | MFF |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0521

Date Received: 2/11/2016

Field Sample #: SB-02, SS-03 (4-6')

Sampled: 2/9/2016 10:00

Sample ID: 16B0521-03

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---------------------------------------------------|---------|--------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Diisopropyl Ether (DIPE) | ND | 0.0011 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:11 | MFF |
| 1,4-Dioxane | ND | 0.11 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:11 | MFF |
| Ethylbenzene | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:11 | MFF |
| Hexachlorobutadiene | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:11 | MFF |
| 2-Hexanone (MBK) | ND | 0.022 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:11 | MFF |
| Isopropylbenzene (Cumene) | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:11 | MFF |
| p-Isopropyltoluene (p-Cymene) | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:11 | MFF |
| Methyl tert-Butyl Ether (MTBE) | 0.0047 | 0.0044 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:11 | MFF |
| Methylene Chloride | ND | 0.022 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:11 | MFF |
| 4-Methyl-2-pentanone (MIBK) | ND | 0.022 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:11 | MFF |
| Naphthalene | ND | 0.0044 | mg/Kg dry | 1 | V-05 | SW-846 8260C | 2/12/16 | 2/12/16 15:11 | MFF |
| n-Propylbenzene | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:11 | MFF |
| Styrene | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:11 | MFF |
| 1,1,1,2-Tetrachloroethane | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:11 | MFF |
| 1,1,2,2-Tetrachloroethane | ND | 0.0011 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:11 | MFF |
| Tetrachloroethylene | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:11 | MFF |
| Tetrahydrofuran | ND | 0.011 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:11 | MFF |
| Toluene | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:11 | MFF |
| 1,2,3-Trichlorobenzene | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:11 | MFF |
| 1,2,4-Trichlorobenzene | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:11 | MFF |
| 1,3,5-Trichlorobenzene | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:11 | MFF |
| 1,1,1-Trichloroethane | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:11 | MFF |
| 1,1,2-Trichloroethane | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:11 | MFF |
| Trichloroethylene | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:11 | MFF |
| Trichlorofluoromethane (Freon 11) | ND | 0.011 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:11 | MFF |
| 1,2,3-Trichloropropane | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:11 | MFF |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | ND | 0.011 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:11 | MFF |
| 1,2,4-Trimethylbenzene | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:11 | MFF |
| 1,3,5-Trimethylbenzene | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:11 | MFF |
| Vinyl Chloride | ND | 0.011 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:11 | MFF |
| m+p Xylene | ND | 0.0044 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:11 | MFF |
| o-Xylene | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:11 | MFF |

| Surrogates | % Recovery | Recovery Limits | Flag/Qual |
|-----------------------|------------|-----------------|---------------|
| 1,2-Dichloroethane-d4 | 112 | 70-130 | 2/12/16 15:11 |
| Toluene-d8 | 99.2 | 70-130 | 2/12/16 15:11 |
| 4-Bromofluorobenzene | 93.1 | 70-130 | 2/12/16 15:11 |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0521

Date Received: 2/11/2016

Field Sample #: SB-02, SS-03 (4-6')

Sampled: 2/9/2016 10:00

Sample ID: 16B0521-03

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|--------------------------|---------|------------|-----------------|----------|-----------|--------------|---------------|--------------------|---------|
| Aroclor-1016 [1] | ND | 0.11 | mg/Kg dry | 5 | | SW-846 8082A | 2/12/16 | 2/16/16 14:22 | KAL |
| Aroclor-1221 [1] | ND | 0.11 | mg/Kg dry | 5 | | SW-846 8082A | 2/12/16 | 2/16/16 14:22 | KAL |
| Aroclor-1232 [1] | ND | 0.11 | mg/Kg dry | 5 | | SW-846 8082A | 2/12/16 | 2/16/16 14:22 | KAL |
| Aroclor-1242 [1] | ND | 0.11 | mg/Kg dry | 5 | | SW-846 8082A | 2/12/16 | 2/16/16 14:22 | KAL |
| Aroclor-1248 [2] | 0.31 | 0.11 | mg/Kg dry | 5 | | SW-846 8082A | 2/12/16 | 2/16/16 14:22 | KAL |
| Aroclor-1254 [2] | 0.19 | 0.11 | mg/Kg dry | 5 | | SW-846 8082A | 2/12/16 | 2/16/16 14:22 | KAL |
| Aroclor-1260 [1] | ND | 0.11 | mg/Kg dry | 5 | | SW-846 8082A | 2/12/16 | 2/16/16 14:22 | KAL |
| Aroclor-1262 [1] | ND | 0.11 | mg/Kg dry | 5 | | SW-846 8082A | 2/12/16 | 2/16/16 14:22 | KAL |
| Aroclor-1268 [1] | ND | 0.11 | mg/Kg dry | 5 | | SW-846 8082A | 2/12/16 | 2/16/16 14:22 | KAL |
| Surrogates | | % Recovery | Recovery Limits | | Flag/Qual | | | | |
| Decachlorobiphenyl [1] | | 65.9 | 30-150 | | | | | 2/16/16 14:22 | |
| Decachlorobiphenyl [2] | | 74.0 | 30-150 | | | | | 2/16/16 14:22 | |
| Tetrachloro-m-xylene [1] | | 79.9 | 30-150 | | | | | 2/16/16 14:22 | |
| Tetrachloro-m-xylene [2] | | 82.5 | 30-150 | | | | | 2/16/16 14:22 | |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0521

Date Received: 2/11/2016

Field Sample #: SB-02, SS-03 (4-6')

Sampled: 2/9/2016 10:00

Sample ID: 16B0521-03

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|--------------|------------|-----|-----------------|----------|-----------|----------------------|---------------|--------------------|---------|
| TPH (C9-C36) | 2400 | 450 | mg/Kg dry | 50 | | SW-846 8100 Modified | 2/12/16 | 2/16/16 14:43 | SCS |
| Surrogates | % Recovery | | Recovery Limits | | Flag/Qual | | | | |
| o-Terphenyl | 74.0 | | 40-140 | | | | | 2/16/16 14:43 | |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0521

Date Received: 2/11/2016

Field Sample #: SB-02, SS-03 (4-6')

Sampled: 2/9/2016 10:00

Sample ID: 16B0521-03

Sample Matrix: Soil

Metals Analyses (Total)

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|----------|---------|-------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Arsenic | 2.8 | 2.8 | mg/Kg dry | 1 | | SW-846 6010C | 2/11/16 | 2/15/16 13:44 | AME |
| Barium | 24 | 2.8 | mg/Kg dry | 1 | | SW-846 6010C | 2/11/16 | 2/12/16 19:43 | AME |
| Cadmium | 3.2 | 0.28 | mg/Kg dry | 1 | | SW-846 6010C | 2/11/16 | 2/12/16 19:43 | AME |
| Chromium | 5.9 | 0.55 | mg/Kg dry | 1 | | SW-846 6010C | 2/11/16 | 2/12/16 19:43 | AME |
| Lead | 37 | 0.83 | mg/Kg dry | 1 | | SW-846 6010C | 2/11/16 | 2/12/16 19:43 | AME |
| Mercury | 0.31 | 0.026 | mg/Kg dry | 1 | | SW-846 7471B | 2/12/16 | 2/15/16 11:30 | SCB |
| Selenium | ND | 5.5 | mg/Kg dry | 1 | | SW-846 6010C | 2/11/16 | 2/12/16 19:43 | AME |
| Silver | ND | 0.55 | mg/Kg dry | 1 | | SW-846 6010C | 2/11/16 | 2/12/16 19:43 | AME |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0521

Date Received: 2/11/2016

Field Sample #: SB-02, SS-03 (4-6')

Sampled: 2/9/2016 10:00

Sample ID: 16B0521-03

Sample Matrix: Soil

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

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|---------------|--------------------|---------|
| % Solids | 90.0 | | % Wt | 1 | | SM 2540G | 2/13/16 | 2/15/16 8:17 | MRL |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0521

Date Received: 2/11/2016

Field Sample #: SB-03, SS-07 (12-14')

Sampled: 2/9/2016 10:50

Sample ID: 16B0521-04

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|------------------------------------|---------|-------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Acetone | ND | 4.9 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 15:19 | MFF |
| Acrylonitrile | ND | 0.49 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 15:19 | MFF |
| tert-Amyl Methyl Ether (TAME) | ND | 0.049 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 15:19 | MFF |
| Benzene | ND | 0.097 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 15:19 | MFF |
| Bromobenzene | ND | 0.097 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 15:19 | MFF |
| Bromochloromethane | ND | 0.097 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 15:19 | MFF |
| Bromodichloromethane | ND | 0.097 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 15:19 | MFF |
| Bromoform | ND | 0.097 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 15:19 | MFF |
| Bromomethane | ND | 0.19 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 15:19 | MFF |
| 2-Butanone (MEK) | ND | 1.9 | mg/Kg dry | 1 | L-04 | SW-846 8260C | 2/12/16 | 2/17/16 15:19 | MFF |
| tert-Butyl Alcohol (TBA) | ND | 1.9 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 15:19 | MFF |
| n-Butylbenzene | 0.82 | 0.097 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 15:19 | MFF |
| sec-Butylbenzene | 0.79 | 0.097 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 15:19 | MFF |
| tert-Butylbenzene | 0.099 | 0.097 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 15:19 | MFF |
| tert-Butyl Ethyl Ether (TBEE) | ND | 0.049 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 15:19 | MFF |
| Carbon Disulfide | ND | 0.29 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 15:19 | MFF |
| Carbon Tetrachloride | ND | 0.097 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 15:19 | MFF |
| Chlorobenzene | ND | 0.097 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 15:19 | MFF |
| Chlorodibromomethane | ND | 0.049 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 15:19 | MFF |
| Chloroethane | ND | 0.19 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 15:19 | MFF |
| Chloroform | ND | 0.19 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 15:19 | MFF |
| Chloromethane | ND | 0.19 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 15:19 | MFF |
| 2-Chlorotoluene | ND | 0.097 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 15:19 | MFF |
| 4-Chlorotoluene | ND | 0.097 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 15:19 | MFF |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 0.49 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 15:19 | MFF |
| 1,2-Dibromoethane (EDB) | ND | 0.049 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 15:19 | MFF |
| Dibromomethane | ND | 0.097 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 15:19 | MFF |
| 1,2-Dichlorobenzene | ND | 0.097 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 15:19 | MFF |
| 1,3-Dichlorobenzene | ND | 0.097 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 15:19 | MFF |
| 1,4-Dichlorobenzene | ND | 0.097 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 15:19 | MFF |
| trans-1,4-Dichloro-2-butene | ND | 0.19 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 15:19 | MFF |
| Dichlorodifluoromethane (Freon 12) | ND | 0.19 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 15:19 | MFF |
| 1,1-Dichloroethane | ND | 0.097 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 15:19 | MFF |
| 1,2-Dichloroethane | ND | 0.097 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 15:19 | MFF |
| 1,1-Dichloroethylene | ND | 0.097 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 15:19 | MFF |
| cis-1,2-Dichloroethylene | ND | 0.097 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 15:19 | MFF |
| trans-1,2-Dichloroethylene | ND | 0.097 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 15:19 | MFF |
| 1,2-Dichloropropane | ND | 0.097 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 15:19 | MFF |
| 1,3-Dichloropropane | ND | 0.049 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 15:19 | MFF |
| 2,2-Dichloropropane | ND | 0.097 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 15:19 | MFF |
| 1,1-Dichloropropene | ND | 0.19 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 15:19 | MFF |
| cis-1,3-Dichloropropene | ND | 0.049 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 15:19 | MFF |
| trans-1,3-Dichloropropene | ND | 0.049 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 15:19 | MFF |
| Diethyl Ether | ND | 0.19 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 15:19 | MFF |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0521

Date Received: 2/11/2016

Field Sample #: SB-03, SS-07 (12-14')

Sampled: 2/9/2016 10:50

Sample ID: 16B0521-04

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---------------------------------------------------|---------|------------|-----------------|----------|-----------|--------------|---------------|--------------------|---------|
| Diisopropyl Ether (DIPE) | ND | 0.049 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 15:19 | MFF |
| 1,4-Dioxane | ND | 4.9 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 15:19 | MFF |
| Ethylbenzene | 0.27 | 0.097 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 15:19 | MFF |
| Hexachlorobutadiene | ND | 0.097 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 15:19 | MFF |
| 2-Hexanone (MBK) | ND | 0.97 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 15:19 | MFF |
| Isopropylbenzene (Cumene) | 1.3 | 0.097 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 15:19 | MFF |
| p-Isopropyltoluene (p-Cymene) | ND | 0.097 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 15:19 | MFF |
| Methyl Acetate | ND | 0.97 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 15:19 | MFF |
| Methyl tert-Butyl Ether (MTBE) | ND | 0.097 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 15:19 | MFF |
| Methyl Cyclohexane | 0.19 | 0.097 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 15:19 | MFF |
| Methylene Chloride | ND | 0.49 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 15:19 | MFF |
| 4-Methyl-2-pentanone (MIBK) | ND | 0.97 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 15:19 | MFF |
| Naphthalene | ND | 0.19 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 15:19 | MFF |
| n-Propylbenzene | 7.6 | 0.097 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 15:19 | MFF |
| Styrene | ND | 0.097 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 15:19 | MFF |
| 1,1,1,2-Tetrachloroethane | ND | 0.097 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 15:19 | MFF |
| 1,1,2,2-Tetrachloroethane | ND | 0.049 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 15:19 | MFF |
| Tetrachloroethylene | ND | 0.097 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 15:19 | MFF |
| Tetrahydrofuran | ND | 0.97 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 15:19 | MFF |
| Toluene | 7.6 | 0.097 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 15:19 | MFF |
| 1,2,3-Trichlorobenzene | ND | 0.49 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 15:19 | MFF |
| 1,2,4-Trichlorobenzene | ND | 0.097 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 15:19 | MFF |
| 1,3,5-Trichlorobenzene | ND | 0.097 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 15:19 | MFF |
| 1,1,1-Trichloroethane | ND | 0.097 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 15:19 | MFF |
| 1,1,2-Trichloroethane | ND | 0.097 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 15:19 | MFF |
| Trichloroethylene | ND | 0.097 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 15:19 | MFF |
| Trichlorofluoromethane (Freon 11) | ND | 0.19 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 15:19 | MFF |
| 1,2,3-Trichloropropane | ND | 0.19 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 15:19 | MFF |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | ND | 0.097 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 15:19 | MFF |
| 1,2,4-Trimethylbenzene | 4.2 | 0.097 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 15:19 | MFF |
| 1,3,5-Trimethylbenzene | 0.16 | 0.097 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 15:19 | MFF |
| Vinyl Chloride | ND | 0.19 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 15:19 | MFF |
| m+p Xylene | 0.68 | 0.19 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 15:19 | MFF |
| o-Xylene | 0.16 | 0.097 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/17/16 15:19 | MFF |
| Surrogates | | % Recovery | Recovery Limits | | Flag/Qual | | | | |
| 1,2-Dichloroethane-d4 | | 97.6 | 70-130 | | | | | 2/17/16 15:19 | |
| Toluene-d8 | | 98.9 | 70-130 | | | | | 2/17/16 15:19 | |
| 4-Bromofluorobenzene | | 104 | 70-130 | | | | | 2/17/16 15:19 | |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0521

Date Received: 2/11/2016

Field Sample #: SB-03, SS-07 (12-14')

Sampled: 2/9/2016 10:50

Sample ID: 16B0521-04

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|--------------------------|---------|------------|-----------------|----------|-----------|--------------|---------------|--------------------|---------|
| Aroclor-1016 [1] | ND | 0.15 | mg/Kg dry | 5 | | SW-846 8082A | 2/12/16 | 2/16/16 14:34 | KAL |
| Aroclor-1221 [1] | ND | 0.15 | mg/Kg dry | 5 | | SW-846 8082A | 2/12/16 | 2/16/16 14:34 | KAL |
| Aroclor-1232 [1] | ND | 0.15 | mg/Kg dry | 5 | | SW-846 8082A | 2/12/16 | 2/16/16 14:34 | KAL |
| Aroclor-1242 [1] | ND | 0.15 | mg/Kg dry | 5 | | SW-846 8082A | 2/12/16 | 2/16/16 14:34 | KAL |
| Aroclor-1248 [1] | ND | 0.15 | mg/Kg dry | 5 | | SW-846 8082A | 2/12/16 | 2/16/16 14:34 | KAL |
| Aroclor-1254 [1] | ND | 0.15 | mg/Kg dry | 5 | | SW-846 8082A | 2/12/16 | 2/16/16 14:34 | KAL |
| Aroclor-1260 [1] | ND | 0.15 | mg/Kg dry | 5 | | SW-846 8082A | 2/12/16 | 2/16/16 14:34 | KAL |
| Aroclor-1262 [1] | ND | 0.15 | mg/Kg dry | 5 | | SW-846 8082A | 2/12/16 | 2/16/16 14:34 | KAL |
| Aroclor-1268 [1] | ND | 0.15 | mg/Kg dry | 5 | | SW-846 8082A | 2/12/16 | 2/16/16 14:34 | KAL |
| Surrogates | | % Recovery | Recovery Limits | | Flag/Qual | | | | |
| Decachlorobiphenyl [1] | | 71.5 | 30-150 | | | | | 2/16/16 14:34 | |
| Decachlorobiphenyl [2] | | 74.7 | 30-150 | | | | | 2/16/16 14:34 | |
| Tetrachloro-m-xylene [1] | | 77.7 | 30-150 | | | | | 2/16/16 14:34 | |
| Tetrachloro-m-xylene [2] | | 81.0 | 30-150 | | | | | 2/16/16 14:34 | |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0521

Date Received: 2/11/2016

Field Sample #: SB-03, SS-07 (12-14')

Sampled: 2/9/2016 10:50

Sample ID: 16B0521-04

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|-------------------|---------|-------------------|------------------------|----------|------------------|----------------------|---------------|--------------------|---------|
| TPH (C9-C36) | 630 | 25 | mg/Kg dry | 1 | | SW-846 8100 Modified | 2/12/16 | 2/15/16 17:26 | SCS |
| Surrogates | | % Recovery | Recovery Limits | | Flag/Qual | | | | |
| o-Terphenyl | | 75.7 | 40-140 | | | | | 2/15/16 17:26 | |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0521

Date Received: 2/11/2016

Field Sample #: SB-03, SS-07 (12-14')

Sampled: 2/9/2016 10:50

Sample ID: 16B0521-04

Sample Matrix: Soil

Metals Analyses (Total)

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|----------|---------|-------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Arsenic | 9.6 | 3.8 | mg/Kg dry | 1 | | SW-846 6010C | 2/11/16 | 2/15/16 13:49 | AME |
| Barium | 70 | 3.8 | mg/Kg dry | 1 | | SW-846 6010C | 2/11/16 | 2/12/16 19:48 | AME |
| Cadmium | 0.43 | 0.38 | mg/Kg dry | 1 | | SW-846 6010C | 2/11/16 | 2/12/16 19:48 | AME |
| Chromium | 6.9 | 0.75 | mg/Kg dry | 1 | | SW-846 6010C | 2/11/16 | 2/12/16 19:48 | AME |
| Lead | 6.8 | 1.1 | mg/Kg dry | 1 | | SW-846 6010C | 2/11/16 | 2/12/16 19:48 | AME |
| Mercury | 0.043 | 0.035 | mg/Kg dry | 1 | | SW-846 7471B | 2/12/16 | 2/15/16 11:31 | SCB |
| Selenium | ND | 7.5 | mg/Kg dry | 1 | | SW-846 6010C | 2/11/16 | 2/12/16 19:48 | AME |
| Silver | ND | 0.75 | mg/Kg dry | 1 | | SW-846 6010C | 2/11/16 | 2/12/16 19:48 | AME |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0521

Date Received: 2/11/2016

Field Sample #: SB-03, SS-07 (12-14')

Sampled: 2/9/2016 10:50

Sample ID: 16B0521-04

Sample Matrix: Soil

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

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|---------------|--------------------|---------|
| % Solids | 65.5 | | % Wt | 1 | | SM 2540G | 2/13/16 | 2/15/16 8:17 | MRL |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0521

Date Received: 2/11/2016

Field Sample #: SB-04, SS-04 (6-8')

Sampled: 2/9/2016 11:30

Sample ID: 16B0521-05

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|------------------------------------|---------|---------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Acetone | ND | 0.098 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:38 | MFF |
| Acrylonitrile | ND | 0.0059 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:38 | MFF |
| tert-Amyl Methyl Ether (TAME) | ND | 0.00098 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:38 | MFF |
| Benzene | ND | 0.0020 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:38 | MFF |
| Bromobenzene | ND | 0.0020 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:38 | MFF |
| Bromochloromethane | ND | 0.0020 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:38 | MFF |
| Bromodichloromethane | ND | 0.0020 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:38 | MFF |
| Bromoform | ND | 0.0020 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:38 | MFF |
| Bromomethane | ND | 0.0098 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:38 | MFF |
| 2-Butanone (MEK) | ND | 0.039 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:38 | MFF |
| tert-Butyl Alcohol (TBA) | ND | 0.039 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:38 | MFF |
| n-Butylbenzene | ND | 0.0020 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:38 | MFF |
| sec-Butylbenzene | ND | 0.0020 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:38 | MFF |
| tert-Butylbenzene | ND | 0.0020 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:38 | MFF |
| tert-Butyl Ethyl Ether (TBEE) | ND | 0.00098 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:38 | MFF |
| Carbon Disulfide | ND | 0.0059 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:38 | MFF |
| Carbon Tetrachloride | ND | 0.0020 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:38 | MFF |
| Chlorobenzene | ND | 0.0020 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:38 | MFF |
| Chlorodibromomethane | ND | 0.00098 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:38 | MFF |
| Chloroethane | ND | 0.020 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:38 | MFF |
| Chloroform | ND | 0.0039 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:38 | MFF |
| Chloromethane | ND | 0.0098 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:38 | MFF |
| 2-Chlorotoluene | ND | 0.0020 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:38 | MFF |
| 4-Chlorotoluene | ND | 0.0020 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:38 | MFF |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 0.0020 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:38 | MFF |
| 1,2-Dibromoethane (EDB) | ND | 0.00098 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:38 | MFF |
| Dibromomethane | ND | 0.0020 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:38 | MFF |
| 1,2-Dichlorobenzene | ND | 0.0020 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:38 | MFF |
| 1,3-Dichlorobenzene | ND | 0.0020 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:38 | MFF |
| 1,4-Dichlorobenzene | ND | 0.0020 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:38 | MFF |
| trans-1,4-Dichloro-2-butene | ND | 0.0039 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:38 | MFF |
| Dichlorodifluoromethane (Freon 12) | ND | 0.020 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:38 | MFF |
| 1,1-Dichloroethane | ND | 0.0020 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:38 | MFF |
| 1,2-Dichloroethane | ND | 0.0020 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:38 | MFF |
| 1,1-Dichloroethylene | ND | 0.0039 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:38 | MFF |
| cis-1,2-Dichloroethylene | ND | 0.0020 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:38 | MFF |
| trans-1,2-Dichloroethylene | ND | 0.0020 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:38 | MFF |
| 1,2-Dichloropropane | ND | 0.0020 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:38 | MFF |
| 1,3-Dichloropropane | ND | 0.00098 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:38 | MFF |
| 2,2-Dichloropropane | ND | 0.0020 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:38 | MFF |
| 1,1-Dichloropropene | ND | 0.0020 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:38 | MFF |
| cis-1,3-Dichloropropene | ND | 0.00098 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:38 | MFF |
| trans-1,3-Dichloropropene | ND | 0.00098 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:38 | MFF |
| Diethyl Ether | ND | 0.020 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:38 | MFF |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0521

Date Received: 2/11/2016

Field Sample #: SB-04, SS-04 (6-8')

Sampled: 2/9/2016 11:30

Sample ID: 16B0521-05

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---------------------------------------------------|---------|---------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Diisopropyl Ether (DIPE) | ND | 0.00098 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:38 | MFF |
| 1,4-Dioxane | ND | 0.098 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:38 | MFF |
| Ethylbenzene | ND | 0.0020 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:38 | MFF |
| Hexachlorobutadiene | ND | 0.0020 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:38 | MFF |
| 2-Hexanone (MBK) | ND | 0.020 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:38 | MFF |
| Isopropylbenzene (Cumene) | ND | 0.0020 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:38 | MFF |
| p-Isopropyltoluene (p-Cymene) | ND | 0.0020 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:38 | MFF |
| Methyl tert-Butyl Ether (MTBE) | ND | 0.0039 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:38 | MFF |
| Methylene Chloride | ND | 0.020 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:38 | MFF |
| 4-Methyl-2-pentanone (MIBK) | ND | 0.020 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:38 | MFF |
| Naphthalene | ND | 0.0039 | mg/Kg dry | 1 | V-05 | SW-846 8260C | 2/12/16 | 2/12/16 15:38 | MFF |
| n-Propylbenzene | ND | 0.0020 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:38 | MFF |
| Styrene | ND | 0.0020 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:38 | MFF |
| 1,1,1,2-Tetrachloroethane | ND | 0.0020 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:38 | MFF |
| 1,1,2,2-Tetrachloroethane | ND | 0.00098 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:38 | MFF |
| Tetrachloroethylene | ND | 0.0020 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:38 | MFF |
| Tetrahydrofuran | ND | 0.0098 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:38 | MFF |
| Toluene | ND | 0.0020 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:38 | MFF |
| 1,2,3-Trichlorobenzene | ND | 0.0020 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:38 | MFF |
| 1,2,4-Trichlorobenzene | ND | 0.0020 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:38 | MFF |
| 1,3,5-Trichlorobenzene | ND | 0.0020 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:38 | MFF |
| 1,1,1-Trichloroethane | ND | 0.0020 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:38 | MFF |
| 1,1,2-Trichloroethane | ND | 0.0020 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:38 | MFF |
| Trichloroethylene | ND | 0.0020 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:38 | MFF |
| Trichlorofluoromethane (Freon 11) | ND | 0.0098 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:38 | MFF |
| 1,2,3-Trichloropropane | ND | 0.0020 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:38 | MFF |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | ND | 0.0098 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:38 | MFF |
| 1,2,4-Trimethylbenzene | ND | 0.0020 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:38 | MFF |
| 1,3,5-Trimethylbenzene | ND | 0.0020 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:38 | MFF |
| Vinyl Chloride | ND | 0.0098 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:38 | MFF |
| m+p Xylene | ND | 0.0039 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:38 | MFF |
| o-Xylene | ND | 0.0020 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 15:38 | MFF |

| Surrogates | % Recovery | Recovery Limits | Flag/Qual |
|-----------------------|------------|-----------------|---------------|
| 1,2-Dichloroethane-d4 | 115 | 70-130 | 2/12/16 15:38 |
| Toluene-d8 | 97.4 | 70-130 | 2/12/16 15:38 |
| 4-Bromofluorobenzene | 92.0 | 70-130 | 2/12/16 15:38 |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0521

Date Received: 2/11/2016

Field Sample #: SB-04, SS-04 (6-8')

Sampled: 2/9/2016 11:30

Sample ID: 16B0521-05

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|--------------------------|---------|------------|-----------------|----------|-----------|--------------|---------------|--------------------|---------|
| Aroclor-1016 [1] | ND | 0.10 | mg/Kg dry | 5 | | SW-846 8082A | 2/12/16 | 2/16/16 14:47 | KAL |
| Aroclor-1221 [1] | ND | 0.10 | mg/Kg dry | 5 | | SW-846 8082A | 2/12/16 | 2/16/16 14:47 | KAL |
| Aroclor-1232 [1] | ND | 0.10 | mg/Kg dry | 5 | | SW-846 8082A | 2/12/16 | 2/16/16 14:47 | KAL |
| Aroclor-1242 [1] | ND | 0.10 | mg/Kg dry | 5 | | SW-846 8082A | 2/12/16 | 2/16/16 14:47 | KAL |
| Aroclor-1248 [1] | ND | 0.10 | mg/Kg dry | 5 | | SW-846 8082A | 2/12/16 | 2/16/16 14:47 | KAL |
| Aroclor-1254 [1] | ND | 0.10 | mg/Kg dry | 5 | | SW-846 8082A | 2/12/16 | 2/16/16 14:47 | KAL |
| Aroclor-1260 [1] | ND | 0.10 | mg/Kg dry | 5 | | SW-846 8082A | 2/12/16 | 2/16/16 14:47 | KAL |
| Aroclor-1262 [1] | ND | 0.10 | mg/Kg dry | 5 | | SW-846 8082A | 2/12/16 | 2/16/16 14:47 | KAL |
| Aroclor-1268 [1] | ND | 0.10 | mg/Kg dry | 5 | | SW-846 8082A | 2/12/16 | 2/16/16 14:47 | KAL |
| Surrogates | | % Recovery | Recovery Limits | | Flag/Qual | | | | |
| Decachlorobiphenyl [1] | | 75.5 | 30-150 | | | | | 2/16/16 14:47 | |
| Decachlorobiphenyl [2] | | 79.9 | 30-150 | | | | | 2/16/16 14:47 | |
| Tetrachloro-m-xylene [1] | | 87.4 | 30-150 | | | | | 2/16/16 14:47 | |
| Tetrachloro-m-xylene [2] | | 92.5 | 30-150 | | | | | 2/16/16 14:47 | |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0521

Date Received: 2/11/2016

Field Sample #: SB-04, SS-04 (6-8')

Sampled: 2/9/2016 11:30

Sample ID: 16B0521-05

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|-------------------|---------|-------------------|------------------------|----------|------------------|----------------------|---------------|--------------------|---------|
| TPH (C9-C36) | 21 | 8.5 | mg/Kg dry | 1 | | SW-846 8100 Modified | 2/12/16 | 2/15/16 17:44 | SCS |
| Surrogates | | % Recovery | Recovery Limits | | Flag/Qual | | | | |
| o-Terphenyl | | 85.2 | 40-140 | | | | | 2/15/16 17:44 | |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0521

Date Received: 2/11/2016

Field Sample #: SB-04, SS-04 (6-8')

Sampled: 2/9/2016 11:30

Sample ID: 16B0521-05

Sample Matrix: Soil

Metals Analyses (Total)

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|----------|---------|-------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Arsenic | ND | 2.6 | mg/Kg dry | 1 | | SW-846 6010C | 2/11/16 | 2/15/16 13:28 | AME |
| Barium | 11 | 2.6 | mg/Kg dry | 1 | | SW-846 6010C | 2/11/16 | 2/12/16 19:27 | AME |
| Cadmium | 0.44 | 0.26 | mg/Kg dry | 1 | | SW-846 6010C | 2/11/16 | 2/12/16 19:27 | AME |
| Chromium | 2.3 | 0.51 | mg/Kg dry | 1 | | SW-846 6010C | 2/11/16 | 2/12/16 19:27 | AME |
| Lead | 8.9 | 0.77 | mg/Kg dry | 1 | | SW-846 6010C | 2/11/16 | 2/12/16 19:27 | AME |
| Mercury | 0.035 | 0.025 | mg/Kg dry | 1 | | SW-846 7471B | 2/12/16 | 2/15/16 11:33 | SCB |
| Selenium | ND | 5.1 | mg/Kg dry | 1 | | SW-846 6010C | 2/11/16 | 2/12/16 19:27 | AME |
| Silver | ND | 0.51 | mg/Kg dry | 1 | | SW-846 6010C | 2/11/16 | 2/12/16 19:27 | AME |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0521

Date Received: 2/11/2016

Field Sample #: SB-04, SS-04 (6-8')

Sampled: 2/9/2016 11:30

Sample ID: 16B0521-05

Sample Matrix: Soil

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

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|---------------|--------------------|---------|
| % Solids | 96.2 | | % Wt | 1 | | SM 2540G | 2/13/16 | 2/15/16 8:17 | MRL |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0521

Date Received: 2/11/2016

Field Sample #: SB-05, SS-04 (6-8')

Sampled: 2/9/2016 12:00

Sample ID: 16B0521-06

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|------------------------------------|---------|--------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Acetone | ND | 0.11 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 16:06 | MFF |
| Acrylonitrile | ND | 0.0066 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 16:06 | MFF |
| tert-Amyl Methyl Ether (TAME) | ND | 0.0011 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 16:06 | MFF |
| Benzene | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 16:06 | MFF |
| Bromobenzene | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 16:06 | MFF |
| Bromochloromethane | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 16:06 | MFF |
| Bromodichloromethane | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 16:06 | MFF |
| Bromoform | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 16:06 | MFF |
| Bromomethane | ND | 0.011 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 16:06 | MFF |
| 2-Butanone (MEK) | ND | 0.044 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 16:06 | MFF |
| tert-Butyl Alcohol (TBA) | ND | 0.044 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 16:06 | MFF |
| n-Butylbenzene | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 16:06 | MFF |
| sec-Butylbenzene | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 16:06 | MFF |
| tert-Butylbenzene | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 16:06 | MFF |
| tert-Butyl Ethyl Ether (TBEE) | ND | 0.0011 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 16:06 | MFF |
| Carbon Disulfide | ND | 0.0066 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 16:06 | MFF |
| Carbon Tetrachloride | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 16:06 | MFF |
| Chlorobenzene | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 16:06 | MFF |
| Chlorodibromomethane | ND | 0.0011 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 16:06 | MFF |
| Chloroethane | ND | 0.022 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 16:06 | MFF |
| Chloroform | ND | 0.0044 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 16:06 | MFF |
| Chloromethane | ND | 0.011 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 16:06 | MFF |
| 2-Chlorotoluene | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 16:06 | MFF |
| 4-Chlorotoluene | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 16:06 | MFF |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 16:06 | MFF |
| 1,2-Dibromoethane (EDB) | ND | 0.0011 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 16:06 | MFF |
| Dibromomethane | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 16:06 | MFF |
| 1,2-Dichlorobenzene | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 16:06 | MFF |
| 1,3-Dichlorobenzene | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 16:06 | MFF |
| 1,4-Dichlorobenzene | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 16:06 | MFF |
| trans-1,4-Dichloro-2-butene | ND | 0.0044 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 16:06 | MFF |
| Dichlorodifluoromethane (Freon 12) | ND | 0.022 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 16:06 | MFF |
| 1,1-Dichloroethane | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 16:06 | MFF |
| 1,2-Dichloroethane | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 16:06 | MFF |
| 1,1-Dichloroethylene | ND | 0.0044 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 16:06 | MFF |
| cis-1,2-Dichloroethylene | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 16:06 | MFF |
| trans-1,2-Dichloroethylene | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 16:06 | MFF |
| 1,2-Dichloropropane | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 16:06 | MFF |
| 1,3-Dichloropropane | ND | 0.0011 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 16:06 | MFF |
| 2,2-Dichloropropane | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 16:06 | MFF |
| 1,1-Dichloropropene | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 16:06 | MFF |
| cis-1,3-Dichloropropene | ND | 0.0011 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 16:06 | MFF |
| trans-1,3-Dichloropropene | ND | 0.0011 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 16:06 | MFF |
| Diethyl Ether | ND | 0.022 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 16:06 | MFF |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0521

Date Received: 2/11/2016

Field Sample #: SB-05, SS-04 (6-8')

Sampled: 2/9/2016 12:00

Sample ID: 16B0521-06

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---------------------------------------------------|---------|--------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Diisopropyl Ether (DIPE) | ND | 0.0011 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 16:06 | MFF |
| 1,4-Dioxane | ND | 0.11 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 16:06 | MFF |
| Ethylbenzene | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 16:06 | MFF |
| Hexachlorobutadiene | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 16:06 | MFF |
| 2-Hexanone (MBK) | ND | 0.022 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 16:06 | MFF |
| Isopropylbenzene (Cumene) | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 16:06 | MFF |
| p-Isopropyltoluene (p-Cymene) | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 16:06 | MFF |
| Methyl tert-Butyl Ether (MTBE) | ND | 0.0044 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 16:06 | MFF |
| Methylene Chloride | ND | 0.022 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 16:06 | MFF |
| 4-Methyl-2-pentanone (MIBK) | ND | 0.022 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 16:06 | MFF |
| Naphthalene | ND | 0.0044 | mg/Kg dry | 1 | V-05 | SW-846 8260C | 2/12/16 | 2/12/16 16:06 | MFF |
| n-Propylbenzene | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 16:06 | MFF |
| Styrene | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 16:06 | MFF |
| 1,1,1,2-Tetrachloroethane | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 16:06 | MFF |
| 1,1,2,2-Tetrachloroethane | ND | 0.0011 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 16:06 | MFF |
| Tetrachloroethylene | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 16:06 | MFF |
| Tetrahydrofuran | ND | 0.011 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 16:06 | MFF |
| Toluene | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 16:06 | MFF |
| 1,2,3-Trichlorobenzene | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 16:06 | MFF |
| 1,2,4-Trichlorobenzene | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 16:06 | MFF |
| 1,3,5-Trichlorobenzene | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 16:06 | MFF |
| 1,1,1-Trichloroethane | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 16:06 | MFF |
| 1,1,2-Trichloroethane | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 16:06 | MFF |
| Trichloroethylene | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 16:06 | MFF |
| Trichlorofluoromethane (Freon 11) | ND | 0.011 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 16:06 | MFF |
| 1,2,3-Trichloropropane | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 16:06 | MFF |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | ND | 0.011 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 16:06 | MFF |
| 1,2,4-Trimethylbenzene | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 16:06 | MFF |
| 1,3,5-Trimethylbenzene | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 16:06 | MFF |
| Vinyl Chloride | ND | 0.011 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 16:06 | MFF |
| m+p Xylene | ND | 0.0044 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 16:06 | MFF |
| o-Xylene | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 16:06 | MFF |

| Surrogates | % Recovery | Recovery Limits | Flag/Qual |
|-----------------------|------------|-----------------|---------------|
| 1,2-Dichloroethane-d4 | 114 | 70-130 | 2/12/16 16:06 |
| Toluene-d8 | 99.0 | 70-130 | 2/12/16 16:06 |
| 4-Bromofluorobenzene | 92.6 | 70-130 | 2/12/16 16:06 |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0521

Date Received: 2/11/2016

Field Sample #: SB-05, SS-04 (6-8')

Sampled: 2/9/2016 12:00

Sample ID: 16B0521-06

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|--------------------------|---------|------------|-----------------|----------|-----------|--------------|---------------|--------------------|---------|
| Aroclor-1016 [1] | ND | 0.11 | mg/Kg dry | 5 | | SW-846 8082A | 2/12/16 | 2/16/16 14:59 | KAL |
| Aroclor-1221 [1] | ND | 0.11 | mg/Kg dry | 5 | | SW-846 8082A | 2/12/16 | 2/16/16 14:59 | KAL |
| Aroclor-1232 [1] | ND | 0.11 | mg/Kg dry | 5 | | SW-846 8082A | 2/12/16 | 2/16/16 14:59 | KAL |
| Aroclor-1242 [1] | ND | 0.11 | mg/Kg dry | 5 | | SW-846 8082A | 2/12/16 | 2/16/16 14:59 | KAL |
| Aroclor-1248 [1] | ND | 0.11 | mg/Kg dry | 5 | | SW-846 8082A | 2/12/16 | 2/16/16 14:59 | KAL |
| Aroclor-1254 [1] | ND | 0.11 | mg/Kg dry | 5 | | SW-846 8082A | 2/12/16 | 2/16/16 14:59 | KAL |
| Aroclor-1260 [1] | ND | 0.11 | mg/Kg dry | 5 | | SW-846 8082A | 2/12/16 | 2/16/16 14:59 | KAL |
| Aroclor-1262 [1] | ND | 0.11 | mg/Kg dry | 5 | | SW-846 8082A | 2/12/16 | 2/16/16 14:59 | KAL |
| Aroclor-1268 [1] | ND | 0.11 | mg/Kg dry | 5 | | SW-846 8082A | 2/12/16 | 2/16/16 14:59 | KAL |
| Surrogates | | % Recovery | Recovery Limits | | Flag/Qual | | | | |
| Decachlorobiphenyl [1] | | 75.1 | 30-150 | | | | | 2/16/16 14:59 | |
| Decachlorobiphenyl [2] | | 93.6 | 30-150 | | | | | 2/16/16 14:59 | |
| Tetrachloro-m-xylene [1] | | 85.3 | 30-150 | | | | | 2/16/16 14:59 | |
| Tetrachloro-m-xylene [2] | | 90.5 | 30-150 | | | | | 2/16/16 14:59 | |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0521

Date Received: 2/11/2016

Field Sample #: SB-05, SS-04 (6-8')

Sampled: 2/9/2016 12:00

Sample ID: 16B0521-06

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|-------------------|---------|-------------------|------------------------|----------|------------------|----------------------|---------------|--------------------|---------|
| TPH (C9-C36) | 460 | 96 | mg/Kg dry | 10 | | SW-846 8100 Modified | 2/12/16 | 2/15/16 19:11 | SCS |
| Surrogates | | % Recovery | Recovery Limits | | Flag/Qual | | | | |
| o-Terphenyl | | 83.9 | 40-140 | | | | | 2/15/16 19:11 | |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0521

Date Received: 2/11/2016

Field Sample #: SB-05, SS-04 (6-8')

Sampled: 2/9/2016 12:00

Sample ID: 16B0521-06

Sample Matrix: Soil

Metals Analyses (Total)

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|----------|---------|-------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Arsenic | ND | 2.8 | mg/Kg dry | 1 | | SW-846 6010C | 2/11/16 | 2/15/16 13:54 | AME |
| Barium | 46 | 2.8 | mg/Kg dry | 1 | | SW-846 6010C | 2/11/16 | 2/12/16 19:54 | AME |
| Cadmium | 0.37 | 0.28 | mg/Kg dry | 1 | | SW-846 6010C | 2/11/16 | 2/12/16 19:54 | AME |
| Chromium | 5.8 | 0.56 | mg/Kg dry | 1 | | SW-846 6010C | 2/11/16 | 2/12/16 19:54 | AME |
| Lead | 82 | 0.84 | mg/Kg dry | 1 | | SW-846 6010C | 2/11/16 | 2/12/16 19:54 | AME |
| Mercury | 0.16 | 0.028 | mg/Kg dry | 1 | | SW-846 7471B | 2/12/16 | 2/15/16 11:34 | SCB |
| Selenium | ND | 5.6 | mg/Kg dry | 1 | | SW-846 6010C | 2/11/16 | 2/12/16 19:54 | AME |
| Silver | ND | 0.56 | mg/Kg dry | 1 | | SW-846 6010C | 2/11/16 | 2/12/16 19:54 | AME |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0521

Date Received: 2/11/2016

Field Sample #: SB-05, SS-04 (6-8')

Sampled: 2/9/2016 12:00

Sample ID: 16B0521-06

Sample Matrix: Soil

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

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|---------------|--------------------|---------|
| % Solids | 85.3 | | % Wt | 1 | | SM 2540G | 2/13/16 | 2/15/16 8:17 | MRL |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0521

Date Received: 2/11/2016

Field Sample #: SB-06, SS-05 (8-10')

Sampled: 2/9/2016 12:50

Sample ID: 16B0521-07

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|------------------------------------|---------|--------|-----------|----------|------------|--------------|---------------|--------------------|---------|
| Acetone | ND | 0.12 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 20:39 | MFF |
| Acrylonitrile | ND | 0.0071 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 20:39 | MFF |
| tert-Amyl Methyl Ether (TAME) | ND | 0.0012 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 20:39 | MFF |
| Benzene | ND | 0.0024 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 20:39 | MFF |
| Bromobenzene | ND | 0.0024 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 20:39 | MFF |
| Bromochloromethane | ND | 0.0024 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 20:39 | MFF |
| Bromodichloromethane | ND | 0.0024 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 20:39 | MFF |
| Bromoform | ND | 0.0024 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 20:39 | MFF |
| Bromomethane | ND | 0.012 | mg/Kg dry | 1 | L-04, R-05 | SW-846 8260C | 2/12/16 | 2/12/16 20:39 | MFF |
| 2-Butanone (MEK) | ND | 0.047 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 20:39 | MFF |
| tert-Butyl Alcohol (TBA) | ND | 0.047 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 20:39 | MFF |
| n-Butylbenzene | ND | 0.0024 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 20:39 | MFF |
| sec-Butylbenzene | ND | 0.0024 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 20:39 | MFF |
| tert-Butylbenzene | ND | 0.0024 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 20:39 | MFF |
| tert-Butyl Ethyl Ether (TBEE) | ND | 0.0012 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 20:39 | MFF |
| Carbon Disulfide | ND | 0.0071 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 20:39 | MFF |
| Carbon Tetrachloride | ND | 0.0024 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 20:39 | MFF |
| Chlorobenzene | ND | 0.0024 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 20:39 | MFF |
| Chlorodibromomethane | ND | 0.0012 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 20:39 | MFF |
| Chloroethane | ND | 0.024 | mg/Kg dry | 1 | R-05 | SW-846 8260C | 2/12/16 | 2/12/16 20:39 | MFF |
| Chloroform | ND | 0.0047 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 20:39 | MFF |
| Chloromethane | ND | 0.012 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 20:39 | MFF |
| 2-Chlorotoluene | ND | 0.0024 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 20:39 | MFF |
| 4-Chlorotoluene | ND | 0.0024 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 20:39 | MFF |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 0.0024 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 20:39 | MFF |
| 1,2-Dibromoethane (EDB) | ND | 0.0012 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 20:39 | MFF |
| Dibromomethane | ND | 0.0024 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 20:39 | MFF |
| 1,2-Dichlorobenzene | ND | 0.0024 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 20:39 | MFF |
| 1,3-Dichlorobenzene | ND | 0.0024 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 20:39 | MFF |
| 1,4-Dichlorobenzene | ND | 0.0024 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 20:39 | MFF |
| trans-1,4-Dichloro-2-butene | ND | 0.0047 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 20:39 | MFF |
| Dichlorodifluoromethane (Freon 12) | ND | 0.024 | mg/Kg dry | 1 | R-05 | SW-846 8260C | 2/12/16 | 2/12/16 20:39 | MFF |
| 1,1-Dichloroethane | ND | 0.0024 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 20:39 | MFF |
| 1,2-Dichloroethane | ND | 0.0024 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 20:39 | MFF |
| 1,1-Dichloroethylene | ND | 0.0047 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 20:39 | MFF |
| cis-1,2-Dichloroethylene | ND | 0.0024 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 20:39 | MFF |
| trans-1,2-Dichloroethylene | ND | 0.0024 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 20:39 | MFF |
| 1,2-Dichloropropane | ND | 0.0024 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 20:39 | MFF |
| 1,3-Dichloropropane | ND | 0.0012 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 20:39 | MFF |
| 2,2-Dichloropropane | ND | 0.0024 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 20:39 | MFF |
| 1,1-Dichloropropene | ND | 0.0024 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 20:39 | MFF |
| cis-1,3-Dichloropropene | ND | 0.0012 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 20:39 | MFF |
| trans-1,3-Dichloropropene | ND | 0.0012 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 20:39 | MFF |
| Diethyl Ether | ND | 0.024 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 20:39 | MFF |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0521

Date Received: 2/11/2016

Field Sample #: SB-06, SS-05 (8-10')

Sampled: 2/9/2016 12:50

Sample ID: 16B0521-07

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---------------------------------------------------|---------|--------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Diisopropyl Ether (DIPE) | ND | 0.0012 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 20:39 | MFF |
| 1,4-Dioxane | ND | 0.12 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 20:39 | MFF |
| Ethylbenzene | ND | 0.0024 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 20:39 | MFF |
| Hexachlorobutadiene | ND | 0.0024 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 20:39 | MFF |
| 2-Hexanone (MBK) | ND | 0.024 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 20:39 | MFF |
| Isopropylbenzene (Cumene) | ND | 0.0024 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 20:39 | MFF |
| p-Isopropyltoluene (p-Cymene) | ND | 0.0024 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 20:39 | MFF |
| Methyl tert-Butyl Ether (MTBE) | ND | 0.0047 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 20:39 | MFF |
| Methylene Chloride | ND | 0.024 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 20:39 | MFF |
| 4-Methyl-2-pentanone (MIBK) | ND | 0.024 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 20:39 | MFF |
| Naphthalene | ND | 0.0047 | mg/Kg dry | 1 | V-05 | SW-846 8260C | 2/12/16 | 2/12/16 20:39 | MFF |
| n-Propylbenzene | ND | 0.0024 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 20:39 | MFF |
| Styrene | ND | 0.0024 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 20:39 | MFF |
| 1,1,1,2-Tetrachloroethane | ND | 0.0024 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 20:39 | MFF |
| 1,1,2,2-Tetrachloroethane | ND | 0.0012 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 20:39 | MFF |
| Tetrachloroethylene | ND | 0.0024 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 20:39 | MFF |
| Tetrahydrofuran | ND | 0.012 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 20:39 | MFF |
| Toluene | ND | 0.0024 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 20:39 | MFF |
| 1,2,3-Trichlorobenzene | ND | 0.0024 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 20:39 | MFF |
| 1,2,4-Trichlorobenzene | ND | 0.0024 | mg/Kg dry | 1 | V-05 | SW-846 8260C | 2/12/16 | 2/12/16 20:39 | MFF |
| 1,3,5-Trichlorobenzene | ND | 0.0024 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 20:39 | MFF |
| 1,1,1-Trichloroethane | ND | 0.0024 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 20:39 | MFF |
| 1,1,2-Trichloroethane | ND | 0.0024 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 20:39 | MFF |
| Trichloroethylene | ND | 0.0024 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 20:39 | MFF |
| Trichlorofluoromethane (Freon 11) | ND | 0.012 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 20:39 | MFF |
| 1,2,3-Trichloropropane | ND | 0.0024 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 20:39 | MFF |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | ND | 0.012 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 20:39 | MFF |
| 1,2,4-Trimethylbenzene | ND | 0.0024 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 20:39 | MFF |
| 1,3,5-Trimethylbenzene | ND | 0.0024 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 20:39 | MFF |
| Vinyl Chloride | ND | 0.012 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 20:39 | MFF |
| m+p Xylene | ND | 0.0047 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 20:39 | MFF |
| o-Xylene | ND | 0.0024 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 20:39 | MFF |

| Surrogates | % Recovery | Recovery Limits | Flag/Qual |
|-----------------------|------------|-----------------|---------------|
| 1,2-Dichloroethane-d4 | 83.2 | 70-130 | 2/12/16 20:39 |
| Toluene-d8 | 97.3 | 70-130 | 2/12/16 20:39 |
| 4-Bromofluorobenzene | 97.7 | 70-130 | 2/12/16 20:39 |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0521

Date Received: 2/11/2016

Field Sample #: SB-06, SS-05 (8-10')

Sampled: 2/9/2016 12:50

Sample ID: 16B0521-07

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|--------------------------|---------|------------|-----------------|----------|-----------|--------------|---------------|--------------------|---------|
| Aroclor-1016 [1] | ND | 0.11 | mg/Kg dry | 5 | | SW-846 8082A | 2/12/16 | 2/16/16 15:12 | KAL |
| Aroclor-1221 [1] | ND | 0.11 | mg/Kg dry | 5 | | SW-846 8082A | 2/12/16 | 2/16/16 15:12 | KAL |
| Aroclor-1232 [1] | ND | 0.11 | mg/Kg dry | 5 | | SW-846 8082A | 2/12/16 | 2/16/16 15:12 | KAL |
| Aroclor-1242 [1] | ND | 0.11 | mg/Kg dry | 5 | | SW-846 8082A | 2/12/16 | 2/16/16 15:12 | KAL |
| Aroclor-1248 [1] | ND | 0.11 | mg/Kg dry | 5 | | SW-846 8082A | 2/12/16 | 2/16/16 15:12 | KAL |
| Aroclor-1254 [1] | ND | 0.11 | mg/Kg dry | 5 | | SW-846 8082A | 2/12/16 | 2/16/16 15:12 | KAL |
| Aroclor-1260 [1] | ND | 0.11 | mg/Kg dry | 5 | | SW-846 8082A | 2/12/16 | 2/16/16 15:12 | KAL |
| Aroclor-1262 [1] | ND | 0.11 | mg/Kg dry | 5 | | SW-846 8082A | 2/12/16 | 2/16/16 15:12 | KAL |
| Aroclor-1268 [1] | ND | 0.11 | mg/Kg dry | 5 | | SW-846 8082A | 2/12/16 | 2/16/16 15:12 | KAL |
| Surrogates | | % Recovery | Recovery Limits | | Flag/Qual | | | | |
| Decachlorobiphenyl [1] | | 61.9 | 30-150 | | | | | 2/16/16 15:12 | |
| Decachlorobiphenyl [2] | | 72.0 | 30-150 | | | | | 2/16/16 15:12 | |
| Tetrachloro-m-xylene [1] | | 62.5 | 30-150 | | | | | 2/16/16 15:12 | |
| Tetrachloro-m-xylene [2] | | 65.1 | 30-150 | | | | | 2/16/16 15:12 | |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0521

Date Received: 2/11/2016

Field Sample #: SB-06, SS-05 (8-10')

Sampled: 2/9/2016 12:50

Sample ID: 16B0521-07

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|-------------------|---------|-------------------|------------------------|----------|------------------|----------------------|---------------|--------------------|---------|
| TPH (C9-C36) | 160 | 9.4 | mg/Kg dry | 1 | | SW-846 8100 Modified | 2/12/16 | 2/15/16 19:47 | SCS |
| Surrogates | | % Recovery | Recovery Limits | | Flag/Qual | | | | |
| o-Terphenyl | | 66.8 | 40-140 | | | | | 2/15/16 19:47 | |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0521

Date Received: 2/11/2016

Field Sample #: SB-06, SS-05 (8-10')

Sampled: 2/9/2016 12:50

Sample ID: 16B0521-07

Sample Matrix: Soil

Metals Analyses (Total)

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|----------|---------|-------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Arsenic | ND | 2.7 | mg/Kg dry | 1 | | SW-846 6010C | 2/11/16 | 2/15/16 14:00 | AME |
| Barium | 19 | 2.7 | mg/Kg dry | 1 | | SW-846 6010C | 2/11/16 | 2/12/16 20:18 | AME |
| Cadmium | 0.30 | 0.27 | mg/Kg dry | 1 | | SW-846 6010C | 2/11/16 | 2/12/16 20:18 | AME |
| Chromium | 11 | 0.54 | mg/Kg dry | 1 | | SW-846 6010C | 2/11/16 | 2/12/16 20:18 | AME |
| Lead | 98 | 0.81 | mg/Kg dry | 1 | | SW-846 6010C | 2/11/16 | 2/12/16 20:18 | AME |
| Mercury | 0.20 | 0.025 | mg/Kg dry | 1 | | SW-846 7471B | 2/12/16 | 2/15/16 11:36 | SCB |
| Selenium | ND | 5.4 | mg/Kg dry | 1 | | SW-846 6010C | 2/11/16 | 2/12/16 20:18 | AME |
| Silver | ND | 0.54 | mg/Kg dry | 1 | | SW-846 6010C | 2/11/16 | 2/12/16 20:18 | AME |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0521

Date Received: 2/11/2016

Field Sample #: SB-06, SS-05 (8-10')

Sampled: 2/9/2016 12:50

Sample ID: 16B0521-07

Sample Matrix: Soil

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

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|---------------|--------------------|---------|
| % Solids | 88.6 | | % Wt | 1 | | SM 2540G | 2/13/16 | 2/15/16 8:17 | MRL |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0521

Date Received: 2/11/2016

Field Sample #: SB-07, SS-02 (2-4')

Sampled: 2/9/2016 13:40

Sample ID: 16B0521-08

Sample Matrix: Soil

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|------------------------------------|---------|------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Acetone | ND | 25 | mg/Kg dry | 10 | | SW-846 8260C | 2/12/16 | 2/17/16 15:46 | MFF |
| Acrylonitrile | ND | 2.5 | mg/Kg dry | 10 | | SW-846 8260C | 2/12/16 | 2/17/16 15:46 | MFF |
| tert-Amyl Methyl Ether (TAME) | ND | 0.25 | mg/Kg dry | 10 | | SW-846 8260C | 2/12/16 | 2/17/16 15:46 | MFF |
| Benzene | 3.8 | 0.50 | mg/Kg dry | 10 | | SW-846 8260C | 2/12/16 | 2/17/16 15:46 | MFF |
| Bromobenzene | ND | 0.50 | mg/Kg dry | 10 | | SW-846 8260C | 2/12/16 | 2/17/16 15:46 | MFF |
| Bromochloromethane | ND | 0.50 | mg/Kg dry | 10 | | SW-846 8260C | 2/12/16 | 2/17/16 15:46 | MFF |
| Bromodichloromethane | ND | 0.50 | mg/Kg dry | 10 | | SW-846 8260C | 2/12/16 | 2/17/16 15:46 | MFF |
| Bromoform | ND | 0.50 | mg/Kg dry | 10 | | SW-846 8260C | 2/12/16 | 2/17/16 15:46 | MFF |
| Bromomethane | ND | 1.0 | mg/Kg dry | 10 | | SW-846 8260C | 2/12/16 | 2/17/16 15:46 | MFF |
| 2-Butanone (MEK) | ND | 10 | mg/Kg dry | 10 | L-04 | SW-846 8260C | 2/12/16 | 2/17/16 15:46 | MFF |
| tert-Butyl Alcohol (TBA) | ND | 10 | mg/Kg dry | 10 | | SW-846 8260C | 2/12/16 | 2/17/16 15:46 | MFF |
| n-Butylbenzene | 2.4 | 0.50 | mg/Kg dry | 10 | | SW-846 8260C | 2/12/16 | 2/17/16 15:46 | MFF |
| sec-Butylbenzene | 0.85 | 0.50 | mg/Kg dry | 10 | | SW-846 8260C | 2/12/16 | 2/17/16 15:46 | MFF |
| tert-Butylbenzene | ND | 0.50 | mg/Kg dry | 10 | | SW-846 8260C | 2/12/16 | 2/17/16 15:46 | MFF |
| tert-Butyl Ethyl Ether (TBEE) | ND | 0.25 | mg/Kg dry | 10 | | SW-846 8260C | 2/12/16 | 2/17/16 15:46 | MFF |
| Carbon Disulfide | ND | 1.5 | mg/Kg dry | 10 | | SW-846 8260C | 2/12/16 | 2/17/16 15:46 | MFF |
| Carbon Tetrachloride | ND | 0.50 | mg/Kg dry | 10 | | SW-846 8260C | 2/12/16 | 2/17/16 15:46 | MFF |
| Chlorobenzene | ND | 0.50 | mg/Kg dry | 10 | | SW-846 8260C | 2/12/16 | 2/17/16 15:46 | MFF |
| Chlorodibromomethane | ND | 0.25 | mg/Kg dry | 10 | | SW-846 8260C | 2/12/16 | 2/17/16 15:46 | MFF |
| Chloroethane | ND | 1.0 | mg/Kg dry | 10 | | SW-846 8260C | 2/12/16 | 2/17/16 15:46 | MFF |
| Chloroform | ND | 1.0 | mg/Kg dry | 10 | | SW-846 8260C | 2/12/16 | 2/17/16 15:46 | MFF |
| Chloromethane | ND | 1.0 | mg/Kg dry | 10 | | SW-846 8260C | 2/12/16 | 2/17/16 15:46 | MFF |
| 2-Chlorotoluene | ND | 0.50 | mg/Kg dry | 10 | | SW-846 8260C | 2/12/16 | 2/17/16 15:46 | MFF |
| 4-Chlorotoluene | ND | 0.50 | mg/Kg dry | 10 | | SW-846 8260C | 2/12/16 | 2/17/16 15:46 | MFF |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 2.5 | mg/Kg dry | 10 | | SW-846 8260C | 2/12/16 | 2/17/16 15:46 | MFF |
| 1,2-Dibromoethane (EDB) | ND | 0.25 | mg/Kg dry | 10 | | SW-846 8260C | 2/12/16 | 2/17/16 15:46 | MFF |
| Dibromomethane | ND | 0.50 | mg/Kg dry | 10 | | SW-846 8260C | 2/12/16 | 2/17/16 15:46 | MFF |
| 1,2-Dichlorobenzene | ND | 0.50 | mg/Kg dry | 10 | | SW-846 8260C | 2/12/16 | 2/17/16 15:46 | MFF |
| 1,3-Dichlorobenzene | ND | 0.50 | mg/Kg dry | 10 | | SW-846 8260C | 2/12/16 | 2/17/16 15:46 | MFF |
| 1,4-Dichlorobenzene | ND | 0.50 | mg/Kg dry | 10 | | SW-846 8260C | 2/12/16 | 2/17/16 15:46 | MFF |
| trans-1,4-Dichloro-2-butene | ND | 1.0 | mg/Kg dry | 10 | | SW-846 8260C | 2/12/16 | 2/17/16 15:46 | MFF |
| Dichlorodifluoromethane (Freon 12) | ND | 1.0 | mg/Kg dry | 10 | | SW-846 8260C | 2/12/16 | 2/17/16 15:46 | MFF |
| 1,1-Dichloroethane | ND | 0.50 | mg/Kg dry | 10 | | SW-846 8260C | 2/12/16 | 2/17/16 15:46 | MFF |
| 1,2-Dichloroethane | ND | 0.50 | mg/Kg dry | 10 | | SW-846 8260C | 2/12/16 | 2/17/16 15:46 | MFF |
| 1,1-Dichloroethylene | ND | 0.50 | mg/Kg dry | 10 | | SW-846 8260C | 2/12/16 | 2/17/16 15:46 | MFF |
| cis-1,2-Dichloroethylene | ND | 0.50 | mg/Kg dry | 10 | | SW-846 8260C | 2/12/16 | 2/17/16 15:46 | MFF |
| trans-1,2-Dichloroethylene | ND | 0.50 | mg/Kg dry | 10 | | SW-846 8260C | 2/12/16 | 2/17/16 15:46 | MFF |
| 1,2-Dichloropropane | ND | 0.50 | mg/Kg dry | 10 | | SW-846 8260C | 2/12/16 | 2/17/16 15:46 | MFF |
| 1,3-Dichloropropane | ND | 0.25 | mg/Kg dry | 10 | | SW-846 8260C | 2/12/16 | 2/17/16 15:46 | MFF |
| 2,2-Dichloropropane | ND | 0.50 | mg/Kg dry | 10 | | SW-846 8260C | 2/12/16 | 2/17/16 15:46 | MFF |
| 1,1-Dichloropropene | ND | 1.0 | mg/Kg dry | 10 | | SW-846 8260C | 2/12/16 | 2/17/16 15:46 | MFF |
| cis-1,3-Dichloropropene | ND | 0.25 | mg/Kg dry | 10 | | SW-846 8260C | 2/12/16 | 2/17/16 15:46 | MFF |
| trans-1,3-Dichloropropene | ND | 0.25 | mg/Kg dry | 10 | | SW-846 8260C | 2/12/16 | 2/17/16 15:46 | MFF |
| Diethyl Ether | ND | 1.0 | mg/Kg dry | 10 | | SW-846 8260C | 2/12/16 | 2/17/16 15:46 | MFF |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0521

Date Received: 2/11/2016

Field Sample #: SB-07, SS-02 (2-4')

Sampled: 2/9/2016 13:40

Sample ID: 16B0521-08

Sample Matrix: Soil

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---------------------------------------------------|------------|-----------------|---------------|----------|-----------|--------------|---------------|--------------------|---------|
| Diisopropyl Ether (DIPE) | ND | 0.25 | mg/Kg dry | 10 | | SW-846 8260C | 2/12/16 | 2/17/16 15:46 | MFF |
| 1,4-Dioxane | ND | 25 | mg/Kg dry | 10 | | SW-846 8260C | 2/12/16 | 2/17/16 15:46 | MFF |
| Ethylbenzene | 24 | 0.50 | mg/Kg dry | 10 | | SW-846 8260C | 2/12/16 | 2/17/16 15:46 | MFF |
| Hexachlorobutadiene | ND | 0.50 | mg/Kg dry | 10 | | SW-846 8260C | 2/12/16 | 2/17/16 15:46 | MFF |
| 2-Hexanone (MBK) | ND | 5.0 | mg/Kg dry | 10 | | SW-846 8260C | 2/12/16 | 2/17/16 15:46 | MFF |
| Isopropylbenzene (Cumene) | 2.6 | 0.50 | mg/Kg dry | 10 | | SW-846 8260C | 2/12/16 | 2/17/16 15:46 | MFF |
| p-Isopropyltoluene (p-Cymene) | 0.60 | 0.50 | mg/Kg dry | 10 | | SW-846 8260C | 2/12/16 | 2/17/16 15:46 | MFF |
| Methyl Acetate | ND | 5.0 | mg/Kg dry | 10 | | SW-846 8260C | 2/12/16 | 2/17/16 15:46 | MFF |
| Methyl tert-Butyl Ether (MTBE) | ND | 0.50 | mg/Kg dry | 10 | | SW-846 8260C | 2/12/16 | 2/17/16 15:46 | MFF |
| Methyl Cyclohexane | 13 | 0.50 | mg/Kg dry | 10 | | SW-846 8260C | 2/12/16 | 2/17/16 15:46 | MFF |
| Methylene Chloride | ND | 2.5 | mg/Kg dry | 10 | | SW-846 8260C | 2/12/16 | 2/17/16 15:46 | MFF |
| 4-Methyl-2-pentanone (MIBK) | ND | 5.0 | mg/Kg dry | 10 | | SW-846 8260C | 2/12/16 | 2/17/16 15:46 | MFF |
| Naphthalene | 6.3 | 1.0 | mg/Kg dry | 10 | | SW-846 8260C | 2/12/16 | 2/17/16 15:46 | MFF |
| n-Propylbenzene | 9.8 | 0.50 | mg/Kg dry | 10 | | SW-846 8260C | 2/12/16 | 2/17/16 15:46 | MFF |
| Styrene | 2.2 | 0.50 | mg/Kg dry | 10 | | SW-846 8260C | 2/12/16 | 2/17/16 15:46 | MFF |
| 1,1,1,2-Tetrachloroethane | ND | 0.50 | mg/Kg dry | 10 | | SW-846 8260C | 2/12/16 | 2/17/16 15:46 | MFF |
| 1,1,2,2-Tetrachloroethane | ND | 0.25 | mg/Kg dry | 10 | | SW-846 8260C | 2/12/16 | 2/17/16 15:46 | MFF |
| Tetrachloroethylene | ND | 0.50 | mg/Kg dry | 10 | | SW-846 8260C | 2/12/16 | 2/17/16 15:46 | MFF |
| Tetrahydrofuran | ND | 5.0 | mg/Kg dry | 10 | | SW-846 8260C | 2/12/16 | 2/17/16 15:46 | MFF |
| Toluene | 77 | 0.50 | mg/Kg dry | 10 | | SW-846 8260C | 2/12/16 | 2/17/16 15:46 | MFF |
| 1,2,3-Trichlorobenzene | ND | 2.5 | mg/Kg dry | 10 | | SW-846 8260C | 2/12/16 | 2/17/16 15:46 | MFF |
| 1,2,4-Trichlorobenzene | ND | 0.50 | mg/Kg dry | 10 | | SW-846 8260C | 2/12/16 | 2/17/16 15:46 | MFF |
| 1,3,5-Trichlorobenzene | ND | 0.50 | mg/Kg dry | 10 | | SW-846 8260C | 2/12/16 | 2/17/16 15:46 | MFF |
| 1,1,1-Trichloroethane | ND | 0.50 | mg/Kg dry | 10 | | SW-846 8260C | 2/12/16 | 2/17/16 15:46 | MFF |
| 1,1,2-Trichloroethane | ND | 0.50 | mg/Kg dry | 10 | | SW-846 8260C | 2/12/16 | 2/17/16 15:46 | MFF |
| Trichloroethylene | ND | 0.50 | mg/Kg dry | 10 | | SW-846 8260C | 2/12/16 | 2/17/16 15:46 | MFF |
| Trichlorofluoromethane (Freon 11) | ND | 1.0 | mg/Kg dry | 10 | | SW-846 8260C | 2/12/16 | 2/17/16 15:46 | MFF |
| 1,2,3-Trichloropropane | ND | 1.0 | mg/Kg dry | 10 | | SW-846 8260C | 2/12/16 | 2/17/16 15:46 | MFF |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | ND | 0.50 | mg/Kg dry | 10 | | SW-846 8260C | 2/12/16 | 2/17/16 15:46 | MFF |
| 1,2,4-Trimethylbenzene | 50 | 0.50 | mg/Kg dry | 10 | | SW-846 8260C | 2/12/16 | 2/17/16 15:46 | MFF |
| 1,3,5-Trimethylbenzene | 16 | 0.50 | mg/Kg dry | 10 | | SW-846 8260C | 2/12/16 | 2/17/16 15:46 | MFF |
| Vinyl Chloride | ND | 1.0 | mg/Kg dry | 10 | | SW-846 8260C | 2/12/16 | 2/17/16 15:46 | MFF |
| m+p Xylene | 83 | 1.0 | mg/Kg dry | 10 | | SW-846 8260C | 2/12/16 | 2/17/16 15:46 | MFF |
| o-Xylene | 33 | 0.50 | mg/Kg dry | 10 | | SW-846 8260C | 2/12/16 | 2/17/16 15:46 | MFF |
| Surrogates | % Recovery | Recovery Limits | Flag/Qual | | | | | | |
| 1,2-Dichloroethane-d4 | 99.5 | 70-130 | 2/17/16 15:46 | | | | | | |
| Toluene-d8 | 98.6 | 70-130 | 2/17/16 15:46 | | | | | | |
| 4-Bromofluorobenzene | 103 | 70-130 | 2/17/16 15:46 | | | | | | |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0521

Date Received: 2/11/2016

Field Sample #: SB-07, SS-02 (2-4')

Sampled: 2/9/2016 13:40

Sample ID: 16B0521-08

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|--------------------------|---------|------------|-----------------|----------|-----------|--------------|---------------|--------------------|---------|
| Aroclor-1016 [1] | ND | 0.10 | mg/Kg dry | 5 | | SW-846 8082A | 2/12/16 | 2/16/16 16:02 | KAL |
| Aroclor-1221 [1] | ND | 0.10 | mg/Kg dry | 5 | | SW-846 8082A | 2/12/16 | 2/16/16 16:02 | KAL |
| Aroclor-1232 [1] | ND | 0.10 | mg/Kg dry | 5 | | SW-846 8082A | 2/12/16 | 2/16/16 16:02 | KAL |
| Aroclor-1242 [1] | ND | 0.10 | mg/Kg dry | 5 | | SW-846 8082A | 2/12/16 | 2/16/16 16:02 | KAL |
| Aroclor-1248 [2] | 0.24 | 0.10 | mg/Kg dry | 5 | | SW-846 8082A | 2/12/16 | 2/16/16 16:02 | KAL |
| Aroclor-1254 [2] | 0.20 | 0.10 | mg/Kg dry | 5 | | SW-846 8082A | 2/12/16 | 2/16/16 16:02 | KAL |
| Aroclor-1260 [1] | ND | 0.10 | mg/Kg dry | 5 | | SW-846 8082A | 2/12/16 | 2/16/16 16:02 | KAL |
| Aroclor-1262 [1] | ND | 0.10 | mg/Kg dry | 5 | | SW-846 8082A | 2/12/16 | 2/16/16 16:02 | KAL |
| Aroclor-1268 [1] | ND | 0.10 | mg/Kg dry | 5 | | SW-846 8082A | 2/12/16 | 2/16/16 16:02 | KAL |
| Surrogates | | % Recovery | Recovery Limits | | Flag/Qual | | | | |
| Decachlorobiphenyl [1] | | 55.4 | 30-150 | | | | | 2/16/16 16:02 | |
| Decachlorobiphenyl [2] | | 63.3 | 30-150 | | | | | 2/16/16 16:02 | |
| Tetrachloro-m-xylene [1] | | 55.7 | 30-150 | | | | | 2/16/16 16:02 | |
| Tetrachloro-m-xylene [2] | | 58.8 | 30-150 | | | | | 2/16/16 16:02 | |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0521

Date Received: 2/11/2016

Field Sample #: SB-07, SS-02 (2-4')

Sampled: 2/9/2016 13:40

Sample ID: 16B0521-08

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|--------------------|---------|-------------------|------------------------|----------|------------------|----------------------|---------------|--------------------|---------|
| TPH (C9-C36) | 14000 | 690 | mg/Kg dry | 20 | | SW-846 8100 Modified | 2/12/16 | 2/15/16 19:29 | SCS |
| Surrogates | | % Recovery | Recovery Limits | | Flag/Qual | | | | |
| o-Terphenyl | | * | 40-140 | | S-01 | | | 2/15/16 19:29 | |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0521

Date Received: 2/11/2016

Field Sample #: SB-07, SS-02 (2-4')

Sampled: 2/9/2016 13:40

Sample ID: 16B0521-08

Sample Matrix: Soil

Metals Analyses (Total)

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|----------|---------|-------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Arsenic | ND | 2.6 | mg/Kg dry | 1 | | SW-846 6010C | 2/11/16 | 2/15/16 14:05 | AME |
| Barium | 97 | 2.6 | mg/Kg dry | 1 | | SW-846 6010C | 2/11/16 | 2/12/16 20:24 | AME |
| Cadmium | 1.5 | 0.26 | mg/Kg dry | 1 | | SW-846 6010C | 2/11/16 | 2/12/16 20:24 | AME |
| Chromium | 25 | 0.52 | mg/Kg dry | 1 | | SW-846 6010C | 2/11/16 | 2/12/16 20:24 | AME |
| Lead | 120 | 0.78 | mg/Kg dry | 1 | | SW-846 6010C | 2/11/16 | 2/12/16 20:24 | AME |
| Mercury | 0.15 | 0.025 | mg/Kg dry | 1 | | SW-846 7471B | 2/12/16 | 2/15/16 11:37 | SCB |
| Selenium | ND | 5.2 | mg/Kg dry | 1 | | SW-846 6010C | 2/11/16 | 2/12/16 20:24 | AME |
| Silver | 2.7 | 0.52 | mg/Kg dry | 1 | | SW-846 6010C | 2/11/16 | 2/12/16 20:24 | AME |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0521

Date Received: 2/11/2016

Field Sample #: SB-07, SS-02 (2-4')

Sampled: 2/9/2016 13:40

Sample ID: 16B0521-08

Sample Matrix: Soil

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

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|---------------|--------------------|---------|
| % Solids | 96.0 | | % Wt | 1 | | SM 2540G | 2/13/16 | 2/15/16 8:17 | MRL |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0521

Date Received: 2/11/2016

Field Sample #: SB-08, SS-05 (8-10')

Sampled: 2/9/2016 14:45

Sample ID: 16B0521-09

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|------------------------------------|---------|--------|-----------|----------|------------|--------------|---------------|--------------------|---------|
| Acetone | ND | 0.13 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:06 | MFF |
| Acrylonitrile | ND | 0.0080 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:06 | MFF |
| tert-Amyl Methyl Ether (TAME) | ND | 0.0013 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:06 | MFF |
| Benzene | ND | 0.0027 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:06 | MFF |
| Bromobenzene | ND | 0.0027 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:06 | MFF |
| Bromochloromethane | ND | 0.0027 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:06 | MFF |
| Bromodichloromethane | ND | 0.0027 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:06 | MFF |
| Bromoform | ND | 0.0027 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:06 | MFF |
| Bromomethane | ND | 0.013 | mg/Kg dry | 1 | L-04, R-05 | SW-846 8260C | 2/12/16 | 2/12/16 21:06 | MFF |
| 2-Butanone (MEK) | ND | 0.053 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:06 | MFF |
| tert-Butyl Alcohol (TBA) | ND | 0.053 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:06 | MFF |
| n-Butylbenzene | ND | 0.0027 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:06 | MFF |
| sec-Butylbenzene | ND | 0.0027 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:06 | MFF |
| tert-Butylbenzene | ND | 0.0027 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:06 | MFF |
| tert-Butyl Ethyl Ether (TBEE) | ND | 0.0013 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:06 | MFF |
| Carbon Disulfide | ND | 0.0080 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:06 | MFF |
| Carbon Tetrachloride | ND | 0.0027 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:06 | MFF |
| Chlorobenzene | ND | 0.0027 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:06 | MFF |
| Chlorodibromomethane | ND | 0.0013 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:06 | MFF |
| Chloroethane | ND | 0.027 | mg/Kg dry | 1 | R-05 | SW-846 8260C | 2/12/16 | 2/12/16 21:06 | MFF |
| Chloroform | ND | 0.0053 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:06 | MFF |
| Chloromethane | ND | 0.013 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:06 | MFF |
| 2-Chlorotoluene | ND | 0.0027 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:06 | MFF |
| 4-Chlorotoluene | ND | 0.0027 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:06 | MFF |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 0.0027 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:06 | MFF |
| 1,2-Dibromoethane (EDB) | ND | 0.0013 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:06 | MFF |
| Dibromomethane | ND | 0.0027 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:06 | MFF |
| 1,2-Dichlorobenzene | ND | 0.0027 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:06 | MFF |
| 1,3-Dichlorobenzene | ND | 0.0027 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:06 | MFF |
| 1,4-Dichlorobenzene | ND | 0.0027 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:06 | MFF |
| trans-1,4-Dichloro-2-butene | ND | 0.0053 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:06 | MFF |
| Dichlorodifluoromethane (Freon 12) | ND | 0.027 | mg/Kg dry | 1 | R-05 | SW-846 8260C | 2/12/16 | 2/12/16 21:06 | MFF |
| 1,1-Dichloroethane | ND | 0.0027 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:06 | MFF |
| 1,2-Dichloroethane | ND | 0.0027 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:06 | MFF |
| 1,1-Dichloroethylene | ND | 0.0053 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:06 | MFF |
| cis-1,2-Dichloroethylene | ND | 0.0027 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:06 | MFF |
| trans-1,2-Dichloroethylene | ND | 0.0027 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:06 | MFF |
| 1,2-Dichloropropane | ND | 0.0027 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:06 | MFF |
| 1,3-Dichloropropane | ND | 0.0013 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:06 | MFF |
| 2,2-Dichloropropane | ND | 0.0027 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:06 | MFF |
| 1,1-Dichloropropene | ND | 0.0027 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:06 | MFF |
| cis-1,3-Dichloropropene | ND | 0.0013 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:06 | MFF |
| trans-1,3-Dichloropropene | ND | 0.0013 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:06 | MFF |
| Diethyl Ether | ND | 0.027 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:06 | MFF |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0521

Date Received: 2/11/2016

Field Sample #: SB-08, SS-05 (8-10')

Sampled: 2/9/2016 14:45

Sample ID: 16B0521-09

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---------------------------------------------------|---------|--------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Diisopropyl Ether (DIPE) | ND | 0.0013 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:06 | MFF |
| 1,4-Dioxane | ND | 0.13 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:06 | MFF |
| Ethylbenzene | ND | 0.0027 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:06 | MFF |
| Hexachlorobutadiene | ND | 0.0027 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:06 | MFF |
| 2-Hexanone (MBK) | ND | 0.027 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:06 | MFF |
| Isopropylbenzene (Cumene) | ND | 0.0027 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:06 | MFF |
| p-Isopropyltoluene (p-Cymene) | ND | 0.0027 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:06 | MFF |
| Methyl tert-Butyl Ether (MTBE) | ND | 0.0053 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:06 | MFF |
| Methylene Chloride | ND | 0.027 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:06 | MFF |
| 4-Methyl-2-pentanone (MIBK) | ND | 0.027 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:06 | MFF |
| Naphthalene | ND | 0.0053 | mg/Kg dry | 1 | V-05 | SW-846 8260C | 2/12/16 | 2/12/16 21:06 | MFF |
| n-Propylbenzene | ND | 0.0027 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:06 | MFF |
| Styrene | ND | 0.0027 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:06 | MFF |
| 1,1,1,2-Tetrachloroethane | ND | 0.0027 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:06 | MFF |
| 1,1,2,2-Tetrachloroethane | ND | 0.0013 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:06 | MFF |
| Tetrachloroethylene | ND | 0.0027 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:06 | MFF |
| Tetrahydrofuran | ND | 0.013 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:06 | MFF |
| Toluene | ND | 0.0027 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:06 | MFF |
| 1,2,3-Trichlorobenzene | ND | 0.0027 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:06 | MFF |
| 1,2,4-Trichlorobenzene | ND | 0.0027 | mg/Kg dry | 1 | V-05 | SW-846 8260C | 2/12/16 | 2/12/16 21:06 | MFF |
| 1,3,5-Trichlorobenzene | ND | 0.0027 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:06 | MFF |
| 1,1,1-Trichloroethane | ND | 0.0027 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:06 | MFF |
| 1,1,2-Trichloroethane | ND | 0.0027 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:06 | MFF |
| Trichloroethylene | ND | 0.0027 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:06 | MFF |
| Trichlorofluoromethane (Freon 11) | ND | 0.013 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:06 | MFF |
| 1,2,3-Trichloropropane | ND | 0.0027 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:06 | MFF |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | ND | 0.013 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:06 | MFF |
| 1,2,4-Trimethylbenzene | ND | 0.0027 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:06 | MFF |
| 1,3,5-Trimethylbenzene | ND | 0.0027 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:06 | MFF |
| Vinyl Chloride | ND | 0.013 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:06 | MFF |
| m+p Xylene | ND | 0.0053 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:06 | MFF |
| o-Xylene | ND | 0.0027 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:06 | MFF |

| Surrogates | % Recovery | Recovery Limits | Flag/Qual |
|-----------------------|------------|-----------------|---------------|
| 1,2-Dichloroethane-d4 | 88.6 | 70-130 | 2/12/16 21:06 |
| Toluene-d8 | 97.4 | 70-130 | 2/12/16 21:06 |
| 4-Bromofluorobenzene | 89.6 | 70-130 | 2/12/16 21:06 |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0521

Date Received: 2/11/2016

Field Sample #: SB-08, SS-05 (8-10')

Sampled: 2/9/2016 14:45

Sample ID: 16B0521-09

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|--------------------------|---------|------------|-----------------|----------|-----------|--------------|---------------|--------------------|---------|
| Aroclor-1016 [1] | ND | 0.14 | mg/Kg dry | 5 | | SW-846 8082A | 2/12/16 | 2/16/16 16:14 | KAL |
| Aroclor-1221 [1] | ND | 0.14 | mg/Kg dry | 5 | | SW-846 8082A | 2/12/16 | 2/16/16 16:14 | KAL |
| Aroclor-1232 [1] | ND | 0.14 | mg/Kg dry | 5 | | SW-846 8082A | 2/12/16 | 2/16/16 16:14 | KAL |
| Aroclor-1242 [1] | ND | 0.14 | mg/Kg dry | 5 | | SW-846 8082A | 2/12/16 | 2/16/16 16:14 | KAL |
| Aroclor-1248 [1] | ND | 0.14 | mg/Kg dry | 5 | | SW-846 8082A | 2/12/16 | 2/16/16 16:14 | KAL |
| Aroclor-1254 [1] | ND | 0.14 | mg/Kg dry | 5 | | SW-846 8082A | 2/12/16 | 2/16/16 16:14 | KAL |
| Aroclor-1260 [1] | ND | 0.14 | mg/Kg dry | 5 | | SW-846 8082A | 2/12/16 | 2/16/16 16:14 | KAL |
| Aroclor-1262 [1] | ND | 0.14 | mg/Kg dry | 5 | | SW-846 8082A | 2/12/16 | 2/16/16 16:14 | KAL |
| Aroclor-1268 [1] | ND | 0.14 | mg/Kg dry | 5 | | SW-846 8082A | 2/12/16 | 2/16/16 16:14 | KAL |
| Surrogates | | % Recovery | Recovery Limits | | Flag/Qual | | | | |
| Decachlorobiphenyl [1] | | 51.5 | 30-150 | | | | | 2/16/16 16:14 | |
| Decachlorobiphenyl [2] | | 65.0 | 30-150 | | | | | 2/16/16 16:14 | |
| Tetrachloro-m-xylene [1] | | 71.6 | 30-150 | | | | | 2/16/16 16:14 | |
| Tetrachloro-m-xylene [2] | | 69.2 | 30-150 | | | | | 2/16/16 16:14 | |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0521

Date Received: 2/11/2016

Field Sample #: SB-08, SS-05 (8-10')

Sampled: 2/9/2016 14:45

Sample ID: 16B0521-09

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|-------------------|---------|-------------------|------------------------|----------|------------------|----------------------|---------------|--------------------|---------|
| TPH (C9-C36) | 96 | 12 | mg/Kg dry | 1 | | SW-846 8100 Modified | 2/12/16 | 2/15/16 20:04 | SCS |
| Surrogates | | % Recovery | Recovery Limits | | Flag/Qual | | | | |
| o-Terphenyl | | 68.7 | 40-140 | | | | | 2/15/16 20:04 | |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0521

Date Received: 2/11/2016

Field Sample #: SB-08, SS-05 (8-10')

Sampled: 2/9/2016 14:45

Sample ID: 16B0521-09

Sample Matrix: Soil

Metals Analyses (Total)

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|----------|---------|-------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Arsenic | 45 | 3.5 | mg/Kg dry | 1 | | SW-846 6010C | 2/11/16 | 2/15/16 14:29 | AME |
| Barium | 420 | 3.5 | mg/Kg dry | 1 | | SW-846 6010C | 2/11/16 | 2/12/16 20:29 | AME |
| Cadmium | 2.2 | 0.35 | mg/Kg dry | 1 | | SW-846 6010C | 2/11/16 | 2/12/16 20:29 | AME |
| Chromium | 9.6 | 0.71 | mg/Kg dry | 1 | | SW-846 6010C | 2/11/16 | 2/12/16 20:29 | AME |
| Lead | 320 | 1.1 | mg/Kg dry | 1 | | SW-846 6010C | 2/11/16 | 2/12/16 20:29 | AME |
| Mercury | 0.28 | 0.032 | mg/Kg dry | 1 | | SW-846 7471B | 2/12/16 | 2/15/16 11:39 | SCB |
| Selenium | ND | 7.1 | mg/Kg dry | 1 | | SW-846 6010C | 2/11/16 | 2/12/16 20:29 | AME |
| Silver | 2.1 | 0.71 | mg/Kg dry | 1 | | SW-846 6010C | 2/11/16 | 2/12/16 20:29 | AME |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0521

Date Received: 2/11/2016

Field Sample #: SB-08, SS-05 (8-10')

Sampled: 2/9/2016 14:45

Sample ID: 16B0521-09

Sample Matrix: Soil

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

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|---------------|--------------------|---------|
| % Solids | 69.5 | | % Wt | 1 | | SM 2540G | 2/13/16 | 2/15/16 8:17 | MRL |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0521

Date Received: 2/11/2016

Field Sample #: SB-09, SS-01 (0-2')

Sampled: 2/9/2016 15:40

Sample ID: 16B0521-10

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|------------------------------------|---------|---------|-----------|----------|------------|--------------|---------------|--------------------|---------|
| Acetone | ND | 0.088 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:33 | MFF |
| Acrylonitrile | ND | 0.0053 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:33 | MFF |
| tert-Amyl Methyl Ether (TAME) | ND | 0.00088 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:33 | MFF |
| Benzene | ND | 0.0018 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:33 | MFF |
| Bromobenzene | ND | 0.0018 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:33 | MFF |
| Bromochloromethane | ND | 0.0018 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:33 | MFF |
| Bromodichloromethane | ND | 0.0018 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:33 | MFF |
| Bromoform | ND | 0.0018 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:33 | MFF |
| Bromomethane | ND | 0.0088 | mg/Kg dry | 1 | L-04, R-05 | SW-846 8260C | 2/12/16 | 2/12/16 21:33 | MFF |
| 2-Butanone (MEK) | ND | 0.035 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:33 | MFF |
| tert-Butyl Alcohol (TBA) | ND | 0.035 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:33 | MFF |
| n-Butylbenzene | ND | 0.0018 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:33 | MFF |
| sec-Butylbenzene | ND | 0.0018 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:33 | MFF |
| tert-Butylbenzene | ND | 0.0018 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:33 | MFF |
| tert-Butyl Ethyl Ether (TBEE) | ND | 0.00088 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:33 | MFF |
| Carbon Disulfide | ND | 0.0053 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:33 | MFF |
| Carbon Tetrachloride | ND | 0.0018 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:33 | MFF |
| Chlorobenzene | ND | 0.0018 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:33 | MFF |
| Chlorodibromomethane | ND | 0.00088 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:33 | MFF |
| Chloroethane | ND | 0.018 | mg/Kg dry | 1 | R-05 | SW-846 8260C | 2/12/16 | 2/12/16 21:33 | MFF |
| Chloroform | ND | 0.0035 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:33 | MFF |
| Chloromethane | ND | 0.0088 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:33 | MFF |
| 2-Chlorotoluene | ND | 0.0018 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:33 | MFF |
| 4-Chlorotoluene | ND | 0.0018 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:33 | MFF |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 0.0018 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:33 | MFF |
| 1,2-Dibromoethane (EDB) | ND | 0.00088 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:33 | MFF |
| Dibromomethane | ND | 0.0018 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:33 | MFF |
| 1,2-Dichlorobenzene | ND | 0.0018 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:33 | MFF |
| 1,3-Dichlorobenzene | ND | 0.0018 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:33 | MFF |
| 1,4-Dichlorobenzene | ND | 0.0018 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:33 | MFF |
| trans-1,4-Dichloro-2-butene | ND | 0.0035 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:33 | MFF |
| Dichlorodifluoromethane (Freon 12) | ND | 0.018 | mg/Kg dry | 1 | R-05 | SW-846 8260C | 2/12/16 | 2/12/16 21:33 | MFF |
| 1,1-Dichloroethane | ND | 0.0018 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:33 | MFF |
| 1,2-Dichloroethane | ND | 0.0018 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:33 | MFF |
| 1,1-Dichloroethylene | ND | 0.0035 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:33 | MFF |
| cis-1,2-Dichloroethylene | ND | 0.0018 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:33 | MFF |
| trans-1,2-Dichloroethylene | ND | 0.0018 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:33 | MFF |
| 1,2-Dichloropropane | ND | 0.0018 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:33 | MFF |
| 1,3-Dichloropropane | ND | 0.00088 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:33 | MFF |
| 2,2-Dichloropropane | ND | 0.0018 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:33 | MFF |
| 1,1-Dichloropropene | ND | 0.0018 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:33 | MFF |
| cis-1,3-Dichloropropene | ND | 0.00088 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:33 | MFF |
| trans-1,3-Dichloropropene | ND | 0.00088 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:33 | MFF |
| Diethyl Ether | ND | 0.018 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:33 | MFF |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0521

Date Received: 2/11/2016

Field Sample #: SB-09, SS-01 (0-2')

Sampled: 2/9/2016 15:40

Sample ID: 16B0521-10

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---------------------------------------------------|---------|---------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Diisopropyl Ether (DIPE) | ND | 0.00088 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:33 | MFF |
| 1,4-Dioxane | ND | 0.088 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:33 | MFF |
| Ethylbenzene | ND | 0.0018 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:33 | MFF |
| Hexachlorobutadiene | ND | 0.0018 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:33 | MFF |
| 2-Hexanone (MBK) | ND | 0.018 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:33 | MFF |
| Isopropylbenzene (Cumene) | ND | 0.0018 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:33 | MFF |
| p-Isopropyltoluene (p-Cymene) | ND | 0.0018 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:33 | MFF |
| Methyl tert-Butyl Ether (MTBE) | ND | 0.0035 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:33 | MFF |
| Methylene Chloride | ND | 0.018 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:33 | MFF |
| 4-Methyl-2-pentanone (MIBK) | ND | 0.018 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:33 | MFF |
| Naphthalene | ND | 0.0035 | mg/Kg dry | 1 | V-05 | SW-846 8260C | 2/12/16 | 2/12/16 21:33 | MFF |
| n-Propylbenzene | ND | 0.0018 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:33 | MFF |
| Styrene | ND | 0.0018 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:33 | MFF |
| 1,1,1,2-Tetrachloroethane | ND | 0.0018 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:33 | MFF |
| 1,1,2,2-Tetrachloroethane | ND | 0.00088 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:33 | MFF |
| Tetrachloroethylene | ND | 0.0018 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:33 | MFF |
| Tetrahydrofuran | ND | 0.0088 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:33 | MFF |
| Toluene | ND | 0.0018 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:33 | MFF |
| 1,2,3-Trichlorobenzene | ND | 0.0018 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:33 | MFF |
| 1,2,4-Trichlorobenzene | ND | 0.0018 | mg/Kg dry | 1 | V-05 | SW-846 8260C | 2/12/16 | 2/12/16 21:33 | MFF |
| 1,3,5-Trichlorobenzene | ND | 0.0018 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:33 | MFF |
| 1,1,1-Trichloroethane | ND | 0.0018 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:33 | MFF |
| 1,1,2-Trichloroethane | ND | 0.0018 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:33 | MFF |
| Trichloroethylene | ND | 0.0018 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:33 | MFF |
| Trichlorofluoromethane (Freon 11) | ND | 0.0088 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:33 | MFF |
| 1,2,3-Trichloropropane | ND | 0.0018 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:33 | MFF |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | ND | 0.0088 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:33 | MFF |
| 1,2,4-Trimethylbenzene | ND | 0.0018 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:33 | MFF |
| 1,3,5-Trimethylbenzene | ND | 0.0018 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:33 | MFF |
| Vinyl Chloride | ND | 0.0088 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:33 | MFF |
| m+p Xylene | ND | 0.0035 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:33 | MFF |
| o-Xylene | ND | 0.0018 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 21:33 | MFF |

| Surrogates | % Recovery | Recovery Limits | Flag/Qual |
|-----------------------|------------|-----------------|---------------|
| 1,2-Dichloroethane-d4 | 88.6 | 70-130 | 2/12/16 21:33 |
| Toluene-d8 | 94.7 | 70-130 | 2/12/16 21:33 |
| 4-Bromofluorobenzene | 95.4 | 70-130 | 2/12/16 21:33 |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0521

Date Received: 2/11/2016

Field Sample #: SB-09, SS-01 (0-2')

Sampled: 2/9/2016 15:40

Sample ID: 16B0521-10

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|--------------------------|---------|------------|-----------------|----------|-----------|--------------|---------------|--------------------|---------|
| Aroclor-1016 [1] | ND | 0.11 | mg/Kg dry | 5 | | SW-846 8082A | 2/12/16 | 2/16/16 16:27 | KAL |
| Aroclor-1221 [1] | ND | 0.11 | mg/Kg dry | 5 | | SW-846 8082A | 2/12/16 | 2/16/16 16:27 | KAL |
| Aroclor-1232 [1] | ND | 0.11 | mg/Kg dry | 5 | | SW-846 8082A | 2/12/16 | 2/16/16 16:27 | KAL |
| Aroclor-1242 [1] | ND | 0.11 | mg/Kg dry | 5 | | SW-846 8082A | 2/12/16 | 2/16/16 16:27 | KAL |
| Aroclor-1248 [2] | 0.55 | 0.11 | mg/Kg dry | 5 | | SW-846 8082A | 2/12/16 | 2/16/16 16:27 | KAL |
| Aroclor-1254 [2] | 0.68 | 0.11 | mg/Kg dry | 5 | | SW-846 8082A | 2/12/16 | 2/16/16 16:27 | KAL |
| Aroclor-1260 [2] | 0.27 | 0.11 | mg/Kg dry | 5 | | SW-846 8082A | 2/12/16 | 2/16/16 16:27 | KAL |
| Aroclor-1262 [1] | ND | 0.11 | mg/Kg dry | 5 | | SW-846 8082A | 2/12/16 | 2/16/16 16:27 | KAL |
| Aroclor-1268 [1] | ND | 0.11 | mg/Kg dry | 5 | | SW-846 8082A | 2/12/16 | 2/16/16 16:27 | KAL |
| Surrogates | | % Recovery | Recovery Limits | | Flag/Qual | | | | |
| Decachlorobiphenyl [1] | | 71.5 | 30-150 | | | | | 2/16/16 16:27 | |
| Decachlorobiphenyl [2] | | 79.7 | 30-150 | | | | | 2/16/16 16:27 | |
| Tetrachloro-m-xylene [1] | | 74.7 | 30-150 | | | | | 2/16/16 16:27 | |
| Tetrachloro-m-xylene [2] | | 76.1 | 30-150 | | | | | 2/16/16 16:27 | |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0521

Date Received: 2/11/2016

Field Sample #: SB-09, SS-01 (0-2')

Sampled: 2/9/2016 15:40

Sample ID: 16B0521-10

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|--------------------|---------|-------------------|------------------------|----------|------------------|----------------------|---------------|--------------------|---------|
| TPH (C9-C36) | 6700 | 370 | mg/Kg dry | 20 | | SW-846 8100 Modified | 2/12/16 | 2/15/16 19:47 | SCS |
| Surrogates | | % Recovery | Recovery Limits | | Flag/Qual | | | | |
| o-Terphenyl | | * | 40-140 | | S-01 | | | 2/15/16 19:47 | |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0521

Date Received: 2/11/2016

Field Sample #: SB-09, SS-01 (0-2')

Sampled: 2/9/2016 15:40

Sample ID: 16B0521-10

Sample Matrix: Soil

Metals Analyses (Total)

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|----------|---------|-------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Arsenic | 4.4 | 2.8 | mg/Kg dry | 1 | | SW-846 6010C | 2/11/16 | 2/15/16 14:34 | AME |
| Barium | 89 | 2.8 | mg/Kg dry | 1 | | SW-846 6010C | 2/11/16 | 2/12/16 20:34 | AME |
| Cadmium | 1.5 | 0.28 | mg/Kg dry | 1 | | SW-846 6010C | 2/11/16 | 2/12/16 20:34 | AME |
| Chromium | 27 | 0.55 | mg/Kg dry | 1 | | SW-846 6010C | 2/11/16 | 2/12/16 20:34 | AME |
| Lead | 160 | 0.83 | mg/Kg dry | 1 | | SW-846 6010C | 2/11/16 | 2/12/16 20:34 | AME |
| Mercury | 0.34 | 0.027 | mg/Kg dry | 1 | | SW-846 7471B | 2/12/16 | 2/15/16 11:40 | SCB |
| Selenium | ND | 5.5 | mg/Kg dry | 1 | | SW-846 6010C | 2/11/16 | 2/12/16 20:34 | AME |
| Silver | ND | 0.55 | mg/Kg dry | 1 | | SW-846 6010C | 2/11/16 | 2/12/16 20:34 | AME |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0521

Date Received: 2/11/2016

Field Sample #: SB-09, SS-01 (0-2')

Sampled: 2/9/2016 15:40

Sample ID: 16B0521-10

Sample Matrix: Soil

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

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|---------------|--------------------|---------|
| % Solids | 88.3 | | % Wt | 1 | | SM 2540G | 2/13/16 | 2/15/16 8:17 | MRL |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0521

Date Received: 2/11/2016

Field Sample #: SB-09, SS-03 (4-6')

Sampled: 2/9/2016 15:45

Sample ID: 16B0521-11

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|------------------------------------|---------|--------|-----------|----------|------------|--------------|---------------|--------------------|---------|
| Acetone | ND | 0.12 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:01 | MFF |
| Acrylonitrile | ND | 0.0070 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:01 | MFF |
| tert-Amyl Methyl Ether (TAME) | 0.0033 | 0.0012 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:01 | MFF |
| Benzene | 0.0048 | 0.0023 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:01 | MFF |
| Bromobenzene | ND | 0.0023 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:01 | MFF |
| Bromochloromethane | ND | 0.0023 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:01 | MFF |
| Bromodichloromethane | ND | 0.0023 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:01 | MFF |
| Bromoform | ND | 0.0023 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:01 | MFF |
| Bromomethane | ND | 0.012 | mg/Kg dry | 1 | R-05, L-04 | SW-846 8260C | 2/12/16 | 2/12/16 22:01 | MFF |
| 2-Butanone (MEK) | ND | 0.047 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:01 | MFF |
| tert-Butyl Alcohol (TBA) | ND | 0.047 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:01 | MFF |
| n-Butylbenzene | ND | 0.0023 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:01 | MFF |
| sec-Butylbenzene | ND | 0.0023 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:01 | MFF |
| tert-Butylbenzene | ND | 0.0023 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:01 | MFF |
| tert-Butyl Ethyl Ether (TBEE) | ND | 0.0012 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:01 | MFF |
| Carbon Disulfide | ND | 0.0070 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:01 | MFF |
| Carbon Tetrachloride | ND | 0.0023 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:01 | MFF |
| Chlorobenzene | ND | 0.0023 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:01 | MFF |
| Chlorodibromomethane | ND | 0.0012 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:01 | MFF |
| Chloroethane | ND | 0.023 | mg/Kg dry | 1 | R-05 | SW-846 8260C | 2/12/16 | 2/12/16 22:01 | MFF |
| Chloroform | ND | 0.0047 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:01 | MFF |
| Chloromethane | ND | 0.012 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:01 | MFF |
| 2-Chlorotoluene | ND | 0.0023 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:01 | MFF |
| 4-Chlorotoluene | ND | 0.0023 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:01 | MFF |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 0.0023 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:01 | MFF |
| 1,2-Dibromoethane (EDB) | ND | 0.0012 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:01 | MFF |
| Dibromomethane | ND | 0.0023 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:01 | MFF |
| 1,2-Dichlorobenzene | ND | 0.0023 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:01 | MFF |
| 1,3-Dichlorobenzene | ND | 0.0023 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:01 | MFF |
| 1,4-Dichlorobenzene | ND | 0.0023 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:01 | MFF |
| trans-1,4-Dichloro-2-butene | ND | 0.0047 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:01 | MFF |
| Dichlorodifluoromethane (Freon 12) | ND | 0.023 | mg/Kg dry | 1 | R-05 | SW-846 8260C | 2/12/16 | 2/12/16 22:01 | MFF |
| 1,1-Dichloroethane | ND | 0.0023 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:01 | MFF |
| 1,2-Dichloroethane | ND | 0.0023 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:01 | MFF |
| 1,1-Dichloroethylene | ND | 0.0047 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:01 | MFF |
| cis-1,2-Dichloroethylene | ND | 0.0023 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:01 | MFF |
| trans-1,2-Dichloroethylene | ND | 0.0023 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:01 | MFF |
| 1,2-Dichloropropane | ND | 0.0023 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:01 | MFF |
| 1,3-Dichloropropane | ND | 0.0012 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:01 | MFF |
| 2,2-Dichloropropane | ND | 0.0023 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:01 | MFF |
| 1,1-Dichloropropene | ND | 0.0023 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:01 | MFF |
| cis-1,3-Dichloropropene | ND | 0.0012 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:01 | MFF |
| trans-1,3-Dichloropropene | ND | 0.0012 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:01 | MFF |
| Diethyl Ether | ND | 0.023 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:01 | MFF |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0521

Date Received: 2/11/2016

Field Sample #: SB-09, SS-03 (4-6')

Sampled: 2/9/2016 15:45

Sample ID: 16B0521-11

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---------------------------------------------------|---------|--------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Diisopropyl Ether (DIPE) | ND | 0.0012 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:01 | MFF |
| 1,4-Dioxane | ND | 0.12 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:01 | MFF |
| Ethylbenzene | 0.0034 | 0.0023 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:01 | MFF |
| Hexachlorobutadiene | ND | 0.0023 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:01 | MFF |
| 2-Hexanone (MBK) | ND | 0.023 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:01 | MFF |
| Isopropylbenzene (Cumene) | ND | 0.0023 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:01 | MFF |
| p-Isopropyltoluene (p-Cymene) | ND | 0.0023 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:01 | MFF |
| Methyl tert-Butyl Ether (MTBE) | 0.021 | 0.0047 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:01 | MFF |
| Methylene Chloride | ND | 0.023 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:01 | MFF |
| 4-Methyl-2-pentanone (MIBK) | ND | 0.023 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:01 | MFF |
| Naphthalene | 0.0087 | 0.0047 | mg/Kg dry | 1 | V-05 | SW-846 8260C | 2/12/16 | 2/12/16 22:01 | MFF |
| n-Propylbenzene | ND | 0.0023 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:01 | MFF |
| Styrene | ND | 0.0023 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:01 | MFF |
| 1,1,1,2-Tetrachloroethane | ND | 0.0023 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:01 | MFF |
| 1,1,2,2-Tetrachloroethane | ND | 0.0012 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:01 | MFF |
| Tetrachloroethylene | ND | 0.0023 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:01 | MFF |
| Tetrahydrofuran | ND | 0.012 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:01 | MFF |
| Toluene | ND | 0.0023 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:01 | MFF |
| 1,2,3-Trichlorobenzene | ND | 0.0023 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:01 | MFF |
| 1,2,4-Trichlorobenzene | ND | 0.0023 | mg/Kg dry | 1 | V-05 | SW-846 8260C | 2/12/16 | 2/12/16 22:01 | MFF |
| 1,3,5-Trichlorobenzene | ND | 0.0023 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:01 | MFF |
| 1,1,1-Trichloroethane | ND | 0.0023 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:01 | MFF |
| 1,1,2-Trichloroethane | ND | 0.0023 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:01 | MFF |
| Trichloroethylene | ND | 0.0023 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:01 | MFF |
| Trichlorofluoromethane (Freon 11) | ND | 0.012 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:01 | MFF |
| 1,2,3-Trichloropropane | ND | 0.0023 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:01 | MFF |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | ND | 0.012 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:01 | MFF |
| 1,2,4-Trimethylbenzene | 0.028 | 0.0023 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:01 | MFF |
| 1,3,5-Trimethylbenzene | 0.012 | 0.0023 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:01 | MFF |
| Vinyl Chloride | ND | 0.012 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:01 | MFF |
| m+p Xylene | 0.0058 | 0.0047 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:01 | MFF |
| o-Xylene | ND | 0.0023 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:01 | MFF |

| Surrogates | % Recovery | Recovery Limits | Flag/Qual |
|-----------------------|------------|-----------------|---------------|
| 1,2-Dichloroethane-d4 | 89.0 | 70-130 | 2/12/16 22:01 |
| Toluene-d8 | 98.5 | 70-130 | 2/12/16 22:01 |
| 4-Bromofluorobenzene | 94.9 | 70-130 | 2/12/16 22:01 |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0521

Date Received: 2/11/2016

Field Sample #: SB-09, SS-03 (4-6')

Sampled: 2/9/2016 15:45

Sample ID: 16B0521-11

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|--------------------------|---------|------------|-----------------|----------|-----------|--------------|---------------|--------------------|---------|
| Aroclor-1016 [1] | ND | 0.12 | mg/Kg dry | 5 | | SW-846 8082A | 2/12/16 | 2/16/16 16:39 | KAL |
| Aroclor-1221 [1] | ND | 0.12 | mg/Kg dry | 5 | | SW-846 8082A | 2/12/16 | 2/16/16 16:39 | KAL |
| Aroclor-1232 [1] | ND | 0.12 | mg/Kg dry | 5 | | SW-846 8082A | 2/12/16 | 2/16/16 16:39 | KAL |
| Aroclor-1242 [1] | ND | 0.12 | mg/Kg dry | 5 | | SW-846 8082A | 2/12/16 | 2/16/16 16:39 | KAL |
| Aroclor-1248 [1] | ND | 0.12 | mg/Kg dry | 5 | | SW-846 8082A | 2/12/16 | 2/16/16 16:39 | KAL |
| Aroclor-1254 [1] | ND | 0.12 | mg/Kg dry | 5 | | SW-846 8082A | 2/12/16 | 2/16/16 16:39 | KAL |
| Aroclor-1260 [1] | ND | 0.12 | mg/Kg dry | 5 | | SW-846 8082A | 2/12/16 | 2/16/16 16:39 | KAL |
| Aroclor-1262 [1] | ND | 0.12 | mg/Kg dry | 5 | | SW-846 8082A | 2/12/16 | 2/16/16 16:39 | KAL |
| Aroclor-1268 [1] | ND | 0.12 | mg/Kg dry | 5 | | SW-846 8082A | 2/12/16 | 2/16/16 16:39 | KAL |
| Surrogates | | % Recovery | Recovery Limits | | Flag/Qual | | | | |
| Decachlorobiphenyl [1] | | 62.7 | 30-150 | | | | | 2/16/16 16:39 | |
| Decachlorobiphenyl [2] | | 93.0 | 30-150 | | | | | 2/16/16 16:39 | |
| Tetrachloro-m-xylene [1] | | 77.9 | 30-150 | | | | | 2/16/16 16:39 | |
| Tetrachloro-m-xylene [2] | | 77.5 | 30-150 | | | | | 2/16/16 16:39 | |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0521

Date Received: 2/11/2016

Field Sample #: SB-09, SS-03 (4-6')

Sampled: 2/9/2016 15:45

Sample ID: 16B0521-11

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|-------------------|---------|-------------------|------------------------|----------|------------------|----------------------|---------------|--------------------|---------|
| TPH (C9-C36) | 530 | 49 | mg/Kg dry | 5 | | SW-846 8100 Modified | 2/12/16 | 2/15/16 20:04 | SCS |
| Surrogates | | % Recovery | Recovery Limits | | Flag/Qual | | | | |
| o-Terphenyl | | 85.6 | 40-140 | | | | | 2/15/16 20:04 | |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0521

Date Received: 2/11/2016

Field Sample #: SB-09, SS-03 (4-6')

Sampled: 2/9/2016 15:45

Sample ID: 16B0521-11

Sample Matrix: Soil

Metals Analyses (Total)

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|----------|---------|-------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Arsenic | 13 | 2.8 | mg/Kg dry | 1 | | SW-846 6010C | 2/11/16 | 2/15/16 14:39 | AME |
| Barium | 40 | 2.8 | mg/Kg dry | 1 | | SW-846 6010C | 2/11/16 | 2/12/16 20:40 | AME |
| Cadmium | 0.97 | 0.28 | mg/Kg dry | 1 | | SW-846 6010C | 2/11/16 | 2/12/16 20:40 | AME |
| Chromium | 14 | 0.56 | mg/Kg dry | 1 | | SW-846 6010C | 2/11/16 | 2/12/16 20:40 | AME |
| Lead | 89 | 0.84 | mg/Kg dry | 1 | | SW-846 6010C | 2/11/16 | 2/12/16 20:40 | AME |
| Mercury | 0.12 | 0.027 | mg/Kg dry | 1 | | SW-846 7471B | 2/12/16 | 2/15/16 11:45 | SCB |
| Selenium | ND | 5.6 | mg/Kg dry | 1 | | SW-846 6010C | 2/11/16 | 2/12/16 20:40 | AME |
| Silver | ND | 0.56 | mg/Kg dry | 1 | | SW-846 6010C | 2/11/16 | 2/12/16 20:40 | AME |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0521

Date Received: 2/11/2016

Field Sample #: SB-09, SS-03 (4-6')

Sampled: 2/9/2016 15:45

Sample ID: 16B0521-11

Sample Matrix: Soil

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

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|---------------|--------------------|---------|
| % Solids | 85.0 | | % Wt | 1 | | SM 2540G | 2/13/16 | 2/15/16 8:17 | MRL |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0521

Date Received: 2/11/2016

Field Sample #: SB-10, SS-05 (8-10')

Sampled: 2/9/2016 09:50

Sample ID: 16B0521-12

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|------------------------------------|---------|--------|-----------|----------|------------|--------------|---------------|--------------------|---------|
| Acetone | 0.23 | 0.13 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:28 | MFF |
| Acrylonitrile | ND | 0.0077 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:28 | MFF |
| tert-Amyl Methyl Ether (TAME) | ND | 0.0013 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:28 | MFF |
| Benzene | ND | 0.0026 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:28 | MFF |
| Bromobenzene | ND | 0.0026 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:28 | MFF |
| Bromochloromethane | ND | 0.0026 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:28 | MFF |
| Bromodichloromethane | ND | 0.0026 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:28 | MFF |
| Bromoform | ND | 0.0026 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:28 | MFF |
| Bromomethane | ND | 0.013 | mg/Kg dry | 1 | L-04, R-05 | SW-846 8260C | 2/12/16 | 2/12/16 22:28 | MFF |
| 2-Butanone (MEK) | ND | 0.051 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:28 | MFF |
| tert-Butyl Alcohol (TBA) | ND | 0.051 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:28 | MFF |
| n-Butylbenzene | ND | 0.0026 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:28 | MFF |
| sec-Butylbenzene | ND | 0.0026 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:28 | MFF |
| tert-Butylbenzene | ND | 0.0026 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:28 | MFF |
| tert-Butyl Ethyl Ether (TBEE) | ND | 0.0013 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:28 | MFF |
| Carbon Disulfide | ND | 0.0077 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:28 | MFF |
| Carbon Tetrachloride | ND | 0.0026 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:28 | MFF |
| Chlorobenzene | ND | 0.0026 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:28 | MFF |
| Chlorodibromomethane | ND | 0.0013 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:28 | MFF |
| Chloroethane | ND | 0.026 | mg/Kg dry | 1 | R-05 | SW-846 8260C | 2/12/16 | 2/12/16 22:28 | MFF |
| Chloroform | ND | 0.0051 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:28 | MFF |
| Chloromethane | ND | 0.013 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:28 | MFF |
| 2-Chlorotoluene | ND | 0.0026 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:28 | MFF |
| 4-Chlorotoluene | ND | 0.0026 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:28 | MFF |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 0.0026 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:28 | MFF |
| 1,2-Dibromoethane (EDB) | ND | 0.0013 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:28 | MFF |
| Dibromomethane | ND | 0.0026 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:28 | MFF |
| 1,2-Dichlorobenzene | ND | 0.0026 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:28 | MFF |
| 1,3-Dichlorobenzene | ND | 0.0026 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:28 | MFF |
| 1,4-Dichlorobenzene | ND | 0.0026 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:28 | MFF |
| trans-1,4-Dichloro-2-butene | ND | 0.0051 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:28 | MFF |
| Dichlorodifluoromethane (Freon 12) | ND | 0.026 | mg/Kg dry | 1 | R-05 | SW-846 8260C | 2/12/16 | 2/12/16 22:28 | MFF |
| 1,1-Dichloroethane | ND | 0.0026 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:28 | MFF |
| 1,2-Dichloroethane | ND | 0.0026 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:28 | MFF |
| 1,1-Dichloroethylene | ND | 0.0051 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:28 | MFF |
| cis-1,2-Dichloroethylene | ND | 0.0026 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:28 | MFF |
| trans-1,2-Dichloroethylene | ND | 0.0026 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:28 | MFF |
| 1,2-Dichloropropane | ND | 0.0026 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:28 | MFF |
| 1,3-Dichloropropane | ND | 0.0013 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:28 | MFF |
| 2,2-Dichloropropane | ND | 0.0026 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:28 | MFF |
| 1,1-Dichloropropene | ND | 0.0026 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:28 | MFF |
| cis-1,3-Dichloropropene | ND | 0.0013 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:28 | MFF |
| trans-1,3-Dichloropropene | ND | 0.0013 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:28 | MFF |
| Diethyl Ether | ND | 0.026 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:28 | MFF |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0521

Date Received: 2/11/2016

Field Sample #: SB-10, SS-05 (8-10')

Sampled: 2/9/2016 09:50

Sample ID: 16B0521-12

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---------------------------------------------------|---------|--------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Diisopropyl Ether (DIPE) | ND | 0.0013 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:28 | MFF |
| 1,4-Dioxane | ND | 0.13 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:28 | MFF |
| Ethylbenzene | ND | 0.0026 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:28 | MFF |
| Hexachlorobutadiene | ND | 0.0026 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:28 | MFF |
| 2-Hexanone (MBK) | ND | 0.026 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:28 | MFF |
| Isopropylbenzene (Cumene) | ND | 0.0026 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:28 | MFF |
| p-Isopropyltoluene (p-Cymene) | ND | 0.0026 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:28 | MFF |
| Methyl tert-Butyl Ether (MTBE) | ND | 0.0051 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:28 | MFF |
| Methylene Chloride | ND | 0.026 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:28 | MFF |
| 4-Methyl-2-pentanone (MIBK) | ND | 0.026 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:28 | MFF |
| Naphthalene | ND | 0.0051 | mg/Kg dry | 1 | V-05 | SW-846 8260C | 2/12/16 | 2/12/16 22:28 | MFF |
| n-Propylbenzene | ND | 0.0026 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:28 | MFF |
| Styrene | ND | 0.0026 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:28 | MFF |
| 1,1,1,2-Tetrachloroethane | ND | 0.0026 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:28 | MFF |
| 1,1,2,2-Tetrachloroethane | ND | 0.0013 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:28 | MFF |
| Tetrachloroethylene | ND | 0.0026 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:28 | MFF |
| Tetrahydrofuran | ND | 0.013 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:28 | MFF |
| Toluene | ND | 0.0026 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:28 | MFF |
| 1,2,3-Trichlorobenzene | ND | 0.0026 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:28 | MFF |
| 1,2,4-Trichlorobenzene | ND | 0.0026 | mg/Kg dry | 1 | V-05 | SW-846 8260C | 2/12/16 | 2/12/16 22:28 | MFF |
| 1,3,5-Trichlorobenzene | ND | 0.0026 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:28 | MFF |
| 1,1,1-Trichloroethane | ND | 0.0026 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:28 | MFF |
| 1,1,2-Trichloroethane | ND | 0.0026 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:28 | MFF |
| Trichloroethylene | ND | 0.0026 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:28 | MFF |
| Trichlorofluoromethane (Freon 11) | ND | 0.013 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:28 | MFF |
| 1,2,3-Trichloropropane | ND | 0.0026 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:28 | MFF |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | ND | 0.013 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:28 | MFF |
| 1,2,4-Trimethylbenzene | ND | 0.0026 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:28 | MFF |
| 1,3,5-Trimethylbenzene | ND | 0.0026 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:28 | MFF |
| Vinyl Chloride | ND | 0.013 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:28 | MFF |
| m+p Xylene | ND | 0.0051 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:28 | MFF |
| o-Xylene | ND | 0.0026 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:28 | MFF |

| Surrogates | % Recovery | Recovery Limits | Flag/Qual |
|-----------------------|------------|-----------------|---------------|
| 1,2-Dichloroethane-d4 | 88.3 | 70-130 | 2/12/16 22:28 |
| Toluene-d8 | 95.6 | 70-130 | 2/12/16 22:28 |
| 4-Bromofluorobenzene | 94.3 | 70-130 | 2/12/16 22:28 |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0521

Date Received: 2/11/2016

Field Sample #: SB-10, SS-05 (8-10')

Sampled: 2/9/2016 09:50

Sample ID: 16B0521-12

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|--------------------------|---------|------------|-----------------|----------|-----------|--------------|---------------|--------------------|---------|
| Aroclor-1016 [1] | ND | 0.17 | mg/Kg dry | 5 | | SW-846 8082A | 2/12/16 | 2/16/16 16:52 | KAL |
| Aroclor-1221 [1] | ND | 0.17 | mg/Kg dry | 5 | | SW-846 8082A | 2/12/16 | 2/16/16 16:52 | KAL |
| Aroclor-1232 [1] | ND | 0.17 | mg/Kg dry | 5 | | SW-846 8082A | 2/12/16 | 2/16/16 16:52 | KAL |
| Aroclor-1242 [1] | ND | 0.17 | mg/Kg dry | 5 | | SW-846 8082A | 2/12/16 | 2/16/16 16:52 | KAL |
| Aroclor-1248 [1] | ND | 0.17 | mg/Kg dry | 5 | | SW-846 8082A | 2/12/16 | 2/16/16 16:52 | KAL |
| Aroclor-1254 [1] | ND | 0.17 | mg/Kg dry | 5 | | SW-846 8082A | 2/12/16 | 2/16/16 16:52 | KAL |
| Aroclor-1260 [1] | ND | 0.17 | mg/Kg dry | 5 | | SW-846 8082A | 2/12/16 | 2/16/16 16:52 | KAL |
| Aroclor-1262 [1] | ND | 0.17 | mg/Kg dry | 5 | | SW-846 8082A | 2/12/16 | 2/16/16 16:52 | KAL |
| Aroclor-1268 [1] | ND | 0.17 | mg/Kg dry | 5 | | SW-846 8082A | 2/12/16 | 2/16/16 16:52 | KAL |
| Surrogates | | % Recovery | Recovery Limits | | Flag/Qual | | | | |
| Decachlorobiphenyl [1] | | 70.2 | 30-150 | | | | | 2/16/16 16:52 | |
| Decachlorobiphenyl [2] | | 73.6 | 30-150 | | | | | 2/16/16 16:52 | |
| Tetrachloro-m-xylene [1] | | 91.0 | 30-150 | | | | | 2/16/16 16:52 | |
| Tetrachloro-m-xylene [2] | | 95.1 | 30-150 | | | | | 2/16/16 16:52 | |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0521

Date Received: 2/11/2016

Field Sample #: SB-10, SS-05 (8-10')

Sampled: 2/9/2016 09:50

Sample ID: 16B0521-12

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|--------------|------------|------|-----------------|----------|-----------|----------------------|---------------|--------------------|---------|
| TPH (C9-C36) | 200 | 14 | mg/Kg dry | 1 | | SW-846 8100 Modified | 2/12/16 | 2/15/16 20:22 | SCS |
| Surrogates | % Recovery | | Recovery Limits | | Flag/Qual | | | | |
| o-Terphenyl | | 61.7 | | 40-140 | | | | 2/15/16 20:22 | |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0521

Date Received: 2/11/2016

Field Sample #: SB-10, SS-05 (8-10')

Sampled: 2/9/2016 09:50

Sample ID: 16B0521-12

Sample Matrix: Soil

Metals Analyses (Total)

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|----------|---------|------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Arsenic | 11 | 4.1 | mg/Kg dry | 1 | | SW-846 6010C | 2/11/16 | 2/15/16 14:45 | AME |
| Barium | 440 | 4.1 | mg/Kg dry | 1 | | SW-846 6010C | 2/11/16 | 2/12/16 20:45 | AME |
| Cadmium | 1.4 | 0.41 | mg/Kg dry | 1 | | SW-846 6010C | 2/11/16 | 2/12/16 20:45 | AME |
| Chromium | 61 | 0.83 | mg/Kg dry | 1 | | SW-846 6010C | 2/11/16 | 2/12/16 20:45 | AME |
| Lead | 1400 | 1.2 | mg/Kg dry | 1 | | SW-846 6010C | 2/11/16 | 2/12/16 20:45 | AME |
| Mercury | 4.5 | 1.6 | mg/Kg dry | 40 | | SW-846 7471B | 2/12/16 | 2/16/16 8:44 | SCB |
| Selenium | ND | 8.3 | mg/Kg dry | 1 | | SW-846 6010C | 2/11/16 | 2/12/16 20:45 | AME |
| Silver | 1.0 | 0.83 | mg/Kg dry | 1 | | SW-846 6010C | 2/11/16 | 2/12/16 20:45 | AME |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0521

Date Received: 2/11/2016

Field Sample #: SB-10, SS-05 (8-10')

Sampled: 2/9/2016 09:50

Sample ID: 16B0521-12

Sample Matrix: Soil

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

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|---------------|--------------------|---------|
| % Solids | 59.1 | | % Wt | 1 | | SM 2540G | 2/13/16 | 2/15/16 8:17 | MRL |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0521

Date Received: 2/11/2016

Field Sample #: SB-11, SS-03 (4-6')

Sampled: 2/9/2016 10:30

Sample ID: 16B0521-13

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|------------------------------------|---------|---------|-----------|----------|------------|--------------|---------------|--------------------|---------|
| Acetone | 0.11 | 0.096 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:55 | MFF |
| Acrylonitrile | ND | 0.0058 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:55 | MFF |
| tert-Amyl Methyl Ether (TAME) | ND | 0.00096 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:55 | MFF |
| Benzene | ND | 0.0019 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:55 | MFF |
| Bromobenzene | ND | 0.0019 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:55 | MFF |
| Bromochloromethane | ND | 0.0019 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:55 | MFF |
| Bromodichloromethane | ND | 0.0019 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:55 | MFF |
| Bromoform | ND | 0.0019 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:55 | MFF |
| Bromomethane | ND | 0.0096 | mg/Kg dry | 1 | L-04, R-05 | SW-846 8260C | 2/12/16 | 2/12/16 22:55 | MFF |
| 2-Butanone (MEK) | ND | 0.038 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:55 | MFF |
| tert-Butyl Alcohol (TBA) | ND | 0.038 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:55 | MFF |
| n-Butylbenzene | ND | 0.0019 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:55 | MFF |
| sec-Butylbenzene | ND | 0.0019 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:55 | MFF |
| tert-Butylbenzene | ND | 0.0019 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:55 | MFF |
| tert-Butyl Ethyl Ether (TBEE) | ND | 0.00096 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:55 | MFF |
| Carbon Disulfide | ND | 0.0058 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:55 | MFF |
| Carbon Tetrachloride | ND | 0.0019 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:55 | MFF |
| Chlorobenzene | ND | 0.0019 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:55 | MFF |
| Chlorodibromomethane | ND | 0.00096 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:55 | MFF |
| Chloroethane | ND | 0.019 | mg/Kg dry | 1 | R-05 | SW-846 8260C | 2/12/16 | 2/12/16 22:55 | MFF |
| Chloroform | ND | 0.0038 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:55 | MFF |
| Chloromethane | ND | 0.0096 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:55 | MFF |
| 2-Chlorotoluene | ND | 0.0019 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:55 | MFF |
| 4-Chlorotoluene | ND | 0.0019 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:55 | MFF |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 0.0019 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:55 | MFF |
| 1,2-Dibromoethane (EDB) | ND | 0.00096 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:55 | MFF |
| Dibromomethane | ND | 0.0019 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:55 | MFF |
| 1,2-Dichlorobenzene | ND | 0.0019 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:55 | MFF |
| 1,3-Dichlorobenzene | ND | 0.0019 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:55 | MFF |
| 1,4-Dichlorobenzene | ND | 0.0019 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:55 | MFF |
| trans-1,4-Dichloro-2-butene | ND | 0.0038 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:55 | MFF |
| Dichlorodifluoromethane (Freon 12) | ND | 0.019 | mg/Kg dry | 1 | R-05 | SW-846 8260C | 2/12/16 | 2/12/16 22:55 | MFF |
| 1,1-Dichloroethane | ND | 0.0019 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:55 | MFF |
| 1,2-Dichloroethane | ND | 0.0019 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:55 | MFF |
| 1,1-Dichloroethylene | ND | 0.0038 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:55 | MFF |
| cis-1,2-Dichloroethylene | ND | 0.0019 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:55 | MFF |
| trans-1,2-Dichloroethylene | ND | 0.0019 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:55 | MFF |
| 1,2-Dichloropropane | ND | 0.0019 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:55 | MFF |
| 1,3-Dichloropropane | ND | 0.00096 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:55 | MFF |
| 2,2-Dichloropropane | ND | 0.0019 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:55 | MFF |
| 1,1-Dichloropropene | ND | 0.0019 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:55 | MFF |
| cis-1,3-Dichloropropene | ND | 0.00096 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:55 | MFF |
| trans-1,3-Dichloropropene | ND | 0.00096 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:55 | MFF |
| Diethyl Ether | ND | 0.019 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:55 | MFF |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0521

Date Received: 2/11/2016

Field Sample #: SB-11, SS-03 (4-6')

Sampled: 2/9/2016 10:30

Sample ID: 16B0521-13

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---------------------------------------------------|---------|---------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Diisopropyl Ether (DIPE) | ND | 0.00096 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:55 | MFF |
| 1,4-Dioxane | ND | 0.096 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:55 | MFF |
| Ethylbenzene | ND | 0.0019 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:55 | MFF |
| Hexachlorobutadiene | ND | 0.0019 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:55 | MFF |
| 2-Hexanone (MBK) | ND | 0.019 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:55 | MFF |
| Isopropylbenzene (Cumene) | ND | 0.0019 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:55 | MFF |
| p-Isopropyltoluene (p-Cymene) | ND | 0.0019 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:55 | MFF |
| Methyl tert-Butyl Ether (MTBE) | ND | 0.0038 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:55 | MFF |
| Methylene Chloride | ND | 0.019 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:55 | MFF |
| 4-Methyl-2-pentanone (MIBK) | ND | 0.019 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:55 | MFF |
| Naphthalene | ND | 0.0038 | mg/Kg dry | 1 | V-05 | SW-846 8260C | 2/12/16 | 2/12/16 22:55 | MFF |
| n-Propylbenzene | ND | 0.0019 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:55 | MFF |
| Styrene | ND | 0.0019 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:55 | MFF |
| 1,1,1,2-Tetrachloroethane | ND | 0.0019 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:55 | MFF |
| 1,1,2,2-Tetrachloroethane | ND | 0.00096 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:55 | MFF |
| Tetrachloroethylene | ND | 0.0019 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:55 | MFF |
| Tetrahydrofuran | ND | 0.0096 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:55 | MFF |
| Toluene | ND | 0.0019 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:55 | MFF |
| 1,2,3-Trichlorobenzene | ND | 0.0019 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:55 | MFF |
| 1,2,4-Trichlorobenzene | ND | 0.0019 | mg/Kg dry | 1 | V-05 | SW-846 8260C | 2/12/16 | 2/12/16 22:55 | MFF |
| 1,3,5-Trichlorobenzene | ND | 0.0019 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:55 | MFF |
| 1,1,1-Trichloroethane | ND | 0.0019 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:55 | MFF |
| 1,1,2-Trichloroethane | ND | 0.0019 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:55 | MFF |
| Trichloroethylene | ND | 0.0019 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:55 | MFF |
| Trichlorofluoromethane (Freon 11) | ND | 0.0096 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:55 | MFF |
| 1,2,3-Trichloropropane | ND | 0.0019 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:55 | MFF |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | ND | 0.0096 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:55 | MFF |
| 1,2,4-Trimethylbenzene | ND | 0.0019 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:55 | MFF |
| 1,3,5-Trimethylbenzene | ND | 0.0019 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:55 | MFF |
| Vinyl Chloride | ND | 0.0096 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:55 | MFF |
| m+p Xylene | ND | 0.0038 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:55 | MFF |
| o-Xylene | ND | 0.0019 | mg/Kg dry | 1 | | SW-846 8260C | 2/12/16 | 2/12/16 22:55 | MFF |

| Surrogates | % Recovery | Recovery Limits | Flag/Qual |
|-----------------------|------------|-----------------|---------------|
| 1,2-Dichloroethane-d4 | 91.2 | 70-130 | 2/12/16 22:55 |
| Toluene-d8 | 93.9 | 70-130 | 2/12/16 22:55 |
| 4-Bromofluorobenzene | 90.0 | 70-130 | 2/12/16 22:55 |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0521

Date Received: 2/11/2016

Field Sample #: SB-11, SS-03 (4-6')

Sampled: 2/9/2016 10:30

Sample ID: 16B0521-13

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|--------------------------|---------|------------|-----------------|----------|-----------|--------------|---------------|--------------------|---------|
| Aroclor-1016 [1] | ND | 0.15 | mg/Kg dry | 5 | | SW-846 8082A | 2/12/16 | 2/16/16 17:04 | KAL |
| Aroclor-1221 [1] | ND | 0.15 | mg/Kg dry | 5 | | SW-846 8082A | 2/12/16 | 2/16/16 17:04 | KAL |
| Aroclor-1232 [1] | ND | 0.15 | mg/Kg dry | 5 | | SW-846 8082A | 2/12/16 | 2/16/16 17:04 | KAL |
| Aroclor-1242 [1] | ND | 0.15 | mg/Kg dry | 5 | | SW-846 8082A | 2/12/16 | 2/16/16 17:04 | KAL |
| Aroclor-1248 [1] | ND | 0.15 | mg/Kg dry | 5 | | SW-846 8082A | 2/12/16 | 2/16/16 17:04 | KAL |
| Aroclor-1254 [1] | ND | 0.15 | mg/Kg dry | 5 | | SW-846 8082A | 2/12/16 | 2/16/16 17:04 | KAL |
| Aroclor-1260 [1] | ND | 0.15 | mg/Kg dry | 5 | | SW-846 8082A | 2/12/16 | 2/16/16 17:04 | KAL |
| Aroclor-1262 [1] | ND | 0.15 | mg/Kg dry | 5 | | SW-846 8082A | 2/12/16 | 2/16/16 17:04 | KAL |
| Aroclor-1268 [1] | ND | 0.15 | mg/Kg dry | 5 | | SW-846 8082A | 2/12/16 | 2/16/16 17:04 | KAL |
| Surrogates | | % Recovery | Recovery Limits | | Flag/Qual | | | | |
| Decachlorobiphenyl [1] | | 67.4 | 30-150 | | | | | 2/16/16 17:04 | |
| Decachlorobiphenyl [2] | | 74.7 | 30-150 | | | | | 2/16/16 17:04 | |
| Tetrachloro-m-xylene [1] | | 84.4 | 30-150 | | | | | 2/16/16 17:04 | |
| Tetrachloro-m-xylene [2] | | 87.0 | 30-150 | | | | | 2/16/16 17:04 | |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0521

Date Received: 2/11/2016

Field Sample #: SB-11, SS-03 (4-6')

Sampled: 2/9/2016 10:30

Sample ID: 16B0521-13

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|-------------------|---------|-------------------|------------------------|----------|------------------|----------------------|---------------|--------------------|---------|
| TPH (C9-C36) | 410 | 12 | mg/Kg dry | 1 | | SW-846 8100 Modified | 2/12/16 | 2/15/16 20:39 | SCS |
| Surrogates | | % Recovery | Recovery Limits | | Flag/Qual | | | | |
| o-Terphenyl | | 70.7 | 40-140 | | | | | 2/15/16 20:39 | |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0521

Date Received: 2/11/2016

Field Sample #: SB-11, SS-03 (4-6')

Sampled: 2/9/2016 10:30

Sample ID: 16B0521-13

Sample Matrix: Soil

Metals Analyses (Total)

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|----------|---------|------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Arsenic | 40 | 3.6 | mg/Kg dry | 1 | | SW-846 6010C | 2/11/16 | 2/15/16 14:50 | AME |
| Barium | 480 | 3.6 | mg/Kg dry | 1 | | SW-846 6010C | 2/11/16 | 2/12/16 20:50 | AME |
| Cadmium | 2.3 | 0.36 | mg/Kg dry | 1 | | SW-846 6010C | 2/11/16 | 2/12/16 20:50 | AME |
| Chromium | 28 | 0.72 | mg/Kg dry | 1 | | SW-846 6010C | 2/11/16 | 2/12/16 20:50 | AME |
| Lead | 680 | 1.1 | mg/Kg dry | 1 | | SW-846 6010C | 2/11/16 | 2/12/16 20:50 | AME |
| Mercury | 4.5 | 0.71 | mg/Kg dry | 20 | | SW-846 7471B | 2/12/16 | 2/16/16 8:45 | SCB |
| Selenium | ND | 7.2 | mg/Kg dry | 1 | | SW-846 6010C | 2/11/16 | 2/12/16 20:50 | AME |
| Silver | 2.6 | 0.72 | mg/Kg dry | 1 | | SW-846 6010C | 2/11/16 | 2/12/16 20:50 | AME |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0521

Date Received: 2/11/2016

Field Sample #: SB-11, SS-03 (4-6')

Sampled: 2/9/2016 10:30

Sample ID: 16B0521-13

Sample Matrix: Soil

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

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|---------------|--------------------|---------|
| % Solids | 68.5 | | % Wt | 1 | | SM 2540G | 2/13/16 | 2/15/16 8:17 | MRL |

Sample Extraction Data

Prep Method: % Solids-SM 2540G

| Lab Number [Field ID] | Batch | Date |
|-------------------------------------|---------|----------|
| 16B0521-01 [SB-01, SS-05 (8-10'')] | B142113 | 02/13/16 |
| 16B0521-02 [SB-02, SS-01 (0-2'')] | B142113 | 02/13/16 |
| 16B0521-03 [SB-02, SS-03 (4-6'')] | B142113 | 02/13/16 |
| 16B0521-04 [SB-03, SS-07 (12-14'')] | B142113 | 02/13/16 |
| 16B0521-05 [SB-04, SS-04 (6-8'')] | B142113 | 02/13/16 |
| 16B0521-06 [SB-05, SS-04 (6-8'')] | B142113 | 02/13/16 |
| 16B0521-07 [SB-06, SS-05 (8-10'')] | B142113 | 02/13/16 |
| 16B0521-08 [SB-07, SS-02 (2-4'')] | B142113 | 02/13/16 |
| 16B0521-09 [SB-08, SS-05 (8-10'')] | B142113 | 02/13/16 |
| 16B0521-10 [SB-09, SS-01 (0-2'')] | B142113 | 02/13/16 |
| 16B0521-11 [SB-09, SS-03 (4-6'')] | B142113 | 02/13/16 |
| 16B0521-12 [SB-10, SS-05 (8-10'')] | B142113 | 02/13/16 |
| 16B0521-13 [SB-11, SS-03 (4-6'')] | B142113 | 02/13/16 |

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

| Lab Number [Field ID] | Batch | Initial [g] | Final [mL] | Date |
|-------------------------------------|---------|-------------|------------|----------|
| 16B0521-01 [SB-01, SS-05 (8-10'')] | B141991 | 1.02 | 50.0 | 02/11/16 |
| 16B0521-02 [SB-02, SS-01 (0-2'')] | B141991 | 1.02 | 50.0 | 02/11/16 |
| 16B0521-03 [SB-02, SS-03 (4-6'')] | B141991 | 1.01 | 50.0 | 02/11/16 |
| 16B0521-04 [SB-03, SS-07 (12-14'')] | B141991 | 1.02 | 50.0 | 02/11/16 |
| 16B0521-05 [SB-04, SS-04 (6-8'')] | B141991 | 1.01 | 50.0 | 02/11/16 |
| 16B0521-06 [SB-05, SS-04 (6-8'')] | B141991 | 1.05 | 50.0 | 02/11/16 |
| 16B0521-07 [SB-06, SS-05 (8-10'')] | B141991 | 1.05 | 50.0 | 02/11/16 |
| 16B0521-08 [SB-07, SS-02 (2-4'')] | B141991 | 1.00 | 50.0 | 02/11/16 |
| 16B0521-09 [SB-08, SS-05 (8-10'')] | B141991 | 1.02 | 50.0 | 02/11/16 |
| 16B0521-10 [SB-09, SS-01 (0-2'')] | B141991 | 1.02 | 50.0 | 02/11/16 |
| 16B0521-11 [SB-09, SS-03 (4-6'')] | B141991 | 1.04 | 50.0 | 02/11/16 |
| 16B0521-12 [SB-10, SS-05 (8-10'')] | B141991 | 1.02 | 50.0 | 02/11/16 |
| 16B0521-13 [SB-11, SS-03 (4-6'')] | B141991 | 1.02 | 50.0 | 02/11/16 |

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

| Lab Number [Field ID] | Batch | Initial [g] | Final [mL] | Date |
|-------------------------------------|---------|-------------|------------|----------|
| 16B0521-01 [SB-01, SS-05 (8-10'')] | B142087 | 0.620 | 50.0 | 02/12/16 |
| 16B0521-02 [SB-02, SS-01 (0-2'')] | B142087 | 0.648 | 50.0 | 02/12/16 |
| 16B0521-03 [SB-02, SS-03 (4-6'')] | B142087 | 0.650 | 50.0 | 02/12/16 |
| 16B0521-04 [SB-03, SS-07 (12-14'')] | B142087 | 0.658 | 50.0 | 02/12/16 |
| 16B0521-05 [SB-04, SS-04 (6-8'')] | B142087 | 0.621 | 50.0 | 02/12/16 |
| 16B0521-06 [SB-05, SS-04 (6-8'')] | B142087 | 0.627 | 50.0 | 02/12/16 |
| 16B0521-07 [SB-06, SS-05 (8-10'')] | B142087 | 0.677 | 50.0 | 02/12/16 |
| 16B0521-08 [SB-07, SS-02 (2-4'')] | B142087 | 0.625 | 50.0 | 02/12/16 |
| 16B0521-09 [SB-08, SS-05 (8-10'')] | B142087 | 0.668 | 50.0 | 02/12/16 |
| 16B0521-10 [SB-09, SS-01 (0-2'')] | B142087 | 0.640 | 50.0 | 02/12/16 |
| 16B0521-11 [SB-09, SS-03 (4-6'')] | B142087 | 0.645 | 50.0 | 02/12/16 |
| 16B0521-12 [SB-10, SS-05 (8-10'')] | B142087 | 0.621 | 50.0 | 02/12/16 |
| 16B0521-13 [SB-11, SS-03 (4-6'')] | B142087 | 0.618 | 50.0 | 02/12/16 |

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

| Lab Number [Field ID] | Batch | Initial [g] | Final [mL] | Date |
|-----------------------|-------|-------------|------------|------|
|-----------------------|-------|-------------|------------|------|

Sample Extraction Data

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

| Lab Number [Field ID] | Batch | Initial [g] | Final [mL] | Date |
|-------------------------------------|---------|-------------|------------|----------|
| 16B0521-01 [SB-01, SS-05 (8-10'')] | B142028 | 10.0 | 10.0 | 02/12/16 |
| 16B0521-02 [SB-02, SS-01 (0-2'')] | B142028 | 10.0 | 10.0 | 02/12/16 |
| 16B0521-03 [SB-02, SS-03 (4-6'')] | B142028 | 10.1 | 10.0 | 02/12/16 |
| 16B0521-04 [SB-03, SS-07 (12-14'')] | B142028 | 10.1 | 10.0 | 02/12/16 |
| 16B0521-05 [SB-04, SS-04 (6-8'')] | B142028 | 10.1 | 10.0 | 02/12/16 |
| 16B0521-06 [SB-05, SS-04 (6-8'')] | B142028 | 10.2 | 10.0 | 02/12/16 |
| 16B0521-07 [SB-06, SS-05 (8-10'')] | B142028 | 10.1 | 10.0 | 02/12/16 |
| 16B0521-08 [SB-07, SS-02 (2-4'')] | B142028 | 10.0 | 10.0 | 02/12/16 |
| 16B0521-09 [SB-08, SS-05 (8-10'')] | B142028 | 10.2 | 10.0 | 02/12/16 |
| 16B0521-10 [SB-09, SS-01 (0-2'')] | B142028 | 10.0 | 10.0 | 02/12/16 |
| 16B0521-11 [SB-09, SS-03 (4-6'')] | B142028 | 10.1 | 10.0 | 02/12/16 |
| 16B0521-12 [SB-10, SS-05 (8-10'')] | B142028 | 10.2 | 10.0 | 02/12/16 |
| 16B0521-13 [SB-11, SS-03 (4-6'')] | B142028 | 10.0 | 10.0 | 02/12/16 |

Prep Method: SW-846 3546-SW-846 8100 Modified

| Lab Number [Field ID] | Batch | Initial [g] | Final [mL] | Date |
|-------------------------------------|---------|-------------|------------|----------|
| 16B0521-01 [SB-01, SS-05 (8-10'')] | B142014 | 30.2 | 1.00 | 02/12/16 |
| 16B0521-02 [SB-02, SS-01 (0-2'')] | B142014 | 30.9 | 2.00 | 02/12/16 |
| 16B0521-03 [SB-02, SS-03 (4-6'')] | B142014 | 30.7 | 1.00 | 02/12/16 |
| 16B0521-04 [SB-03, SS-07 (12-14'')] | B142014 | 15.2 | 1.00 | 02/12/16 |
| 16B0521-05 [SB-04, SS-04 (6-8'')] | B142014 | 30.5 | 1.00 | 02/12/16 |
| 16B0521-06 [SB-05, SS-04 (6-8'')] | B142014 | 30.6 | 1.00 | 02/12/16 |
| 16B0521-07 [SB-06, SS-05 (8-10'')] | B142014 | 30.1 | 1.00 | 02/12/16 |
| 16B0521-08 [SB-07, SS-02 (2-4'')] | B142014 | 15.2 | 2.00 | 02/12/16 |
| 16B0521-09 [SB-08, SS-05 (8-10'')] | B142014 | 30.1 | 1.00 | 02/12/16 |
| 16B0521-10 [SB-09, SS-01 (0-2'')] | B142014 | 30.4 | 2.00 | 02/12/16 |
| 16B0521-11 [SB-09, SS-03 (4-6'')] | B142014 | 30.1 | 1.00 | 02/12/16 |
| 16B0521-12 [SB-10, SS-05 (8-10'')] | B142014 | 30.3 | 1.00 | 02/12/16 |
| 16B0521-13 [SB-11, SS-03 (4-6'')] | B142014 | 30.7 | 1.00 | 02/12/16 |

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 |
|-------------------------------------|---------|------------------|---------------------|----------------------|------------------|----------|
| 16B0521-02 [SB-02, SS-01 (0-2'')] | B142050 | 15.8 | 17.0 | 1 | 50 | 02/12/16 |
| 16B0521-04 [SB-03, SS-07 (12-14'')] | B142050 | 16.1 | 20.6 | 1 | 50 | 02/12/16 |
| 16B0521-08 [SB-07, SS-02 (2-4'')] | B142050 | 16.4 | 15.6 | 0.1 | 50 | 02/12/16 |

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

| Lab Number [Field ID] | Batch | Initial [g] | Final [mL] | Date |
|------------------------------------|---------|-------------|------------|----------|
| 16B0521-01 [SB-01, SS-05 (8-10'')] | B142076 | 5.76 | 10.0 | 02/12/16 |
| 16B0521-03 [SB-02, SS-03 (4-6'')] | B142076 | 5.05 | 10.0 | 02/12/16 |
| 16B0521-05 [SB-04, SS-04 (6-8'')] | B142076 | 5.29 | 10.0 | 02/12/16 |
| 16B0521-06 [SB-05, SS-04 (6-8'')] | B142076 | 5.32 | 10.0 | 02/12/16 |

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

| Lab Number [Field ID] | Batch | Initial [g] | Final [mL] | Date |
|------------------------------------|---------|-------------|------------|----------|
| 16B0521-07 [SB-06, SS-05 (8-10'')] | B142078 | 4.79 | 10.0 | 02/12/16 |

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

Sample Extraction Data

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

| Lab Number [Field ID] | Batch | Initial [g] | Final [mL] | Date |
|-----------------------------------|---------|-------------|------------|----------|
| 16B0521-09 [SB-08, SS-05 (8-10')] | B142078 | 5.40 | 10.0 | 02/12/16 |
| 16B0521-10 [SB-09, SS-01 (0-2')] | B142078 | 6.41 | 10.0 | 02/12/16 |
| 16B0521-11 [SB-09, SS-03 (4-6')] | B142078 | 5.05 | 10.0 | 02/12/16 |
| 16B0521-12 [SB-10, SS-05 (8-10')] | B142078 | 6.59 | 10.0 | 02/12/16 |
| 16B0521-13 [SB-11, SS-03 (4-6')] | B142078 | 7.61 | 10.0 | 02/12/16 |

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

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

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

Batch B142050 - SW-846 5035

Blank (B142050-BLK1)

Prepared: 02/12/16 Analyzed: 02/17/16

| | | | | | | | | | | |
|------------------------------------|----|-------|-----------|--|--|--|--|--|--|------|
| Acetone | ND | 2.5 | mg/Kg wet | | | | | | | |
| Acrylonitrile | ND | 0.25 | 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 | 0.10 | mg/Kg wet | | | | | | | |
| 2-Butanone (MEK) | ND | 1.0 | mg/Kg wet | | | | | | | L-04 |
| tert-Butyl Alcohol (TBA) | 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 | 0.15 | mg/Kg wet | | | | | | | |
| 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 | 0.10 | 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 | | | | | | | |
| trans-1,4-Dichloro-2-butene | ND | 0.10 | 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 | 0.025 | 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 | | | | | | | |
| 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 Acetate | ND | 0.50 | mg/Kg wet | | | | | | | |

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

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

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

Batch B142050 - SW-846 5035

Blank (B142050-BLK1)

Prepared: 02/12/16 Analyzed: 02/17/16

| | | | | | | | | | | |
|---------------------------------------------------|--------|-------|-----------|--------|--|------|--------|--|--|--|
| Methyl tert-Butyl Ether (MTBE) | ND | 0.050 | mg/Kg wet | | | | | | | |
| Methyl Cyclohexane | 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 | | | | | | | |
| 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 | 0.50 | mg/Kg wet | | | | | | | |
| Toluene | ND | 0.050 | mg/Kg wet | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 0.25 | mg/Kg wet | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 0.050 | mg/Kg wet | | | | | | | |
| 1,3,5-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 | | | | | | | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | ND | 0.050 | 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 | | 96.2 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.0250 | | mg/Kg wet | 0.0250 | | 100 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.0251 | | mg/Kg wet | 0.0250 | | 100 | 70-130 | | | |

LCS (B142050-BS1)

Prepared: 02/12/16 Analyzed: 02/17/16

| | | | | | | | | | | |
|-------------------------------|---------|---------|-----------|--------|--|--------|--------|--|------|---|
| Acetone | 0.0860 | 0.057 | mg/Kg wet | 0.113 | | 75.9 | 70-160 | | | † |
| Acrylonitrile | 0.00957 | 0.0057 | mg/Kg wet | 0.0113 | | 84.4 | 70-130 | | | |
| tert-Amyl Methyl Ether (TAME) | 0.0129 | 0.00057 | mg/Kg wet | 0.0113 | | 114 | 70-130 | | | |
| Benzene | 0.0134 | 0.0011 | mg/Kg wet | 0.0113 | | 118 | 70-130 | | | |
| Bromobenzene | 0.0137 | 0.0011 | mg/Kg wet | 0.0113 | | 121 | 70-130 | | | |
| Bromochloromethane | 0.0147 | 0.0011 | mg/Kg wet | 0.0113 | | 130 | 70-130 | | | |
| Bromodichloromethane | 0.0138 | 0.0011 | mg/Kg wet | 0.0113 | | 122 | 70-130 | | | |
| Bromoform | 0.0121 | 0.0011 | mg/Kg wet | 0.0113 | | 107 | 70-130 | | | |
| Bromomethane | 0.00934 | 0.0023 | mg/Kg wet | 0.0113 | | 82.4 | 40-130 | | V-20 | † |
| 2-Butanone (MEK) | 0.0764 | 0.023 | mg/Kg wet | 0.113 | | 67.4 * | 70-160 | | L-04 | † |
| tert-Butyl Alcohol (TBA) | 0.0836 | 0.023 | mg/Kg wet | 0.113 | | 73.8 | 40-130 | | | † |
| n-Butylbenzene | 0.0131 | 0.0011 | mg/Kg wet | 0.0113 | | 116 | 70-130 | | | |
| sec-Butylbenzene | 0.0127 | 0.0011 | mg/Kg wet | 0.0113 | | 112 | 70-130 | | | |
| tert-Butylbenzene | 0.0121 | 0.0011 | mg/Kg wet | 0.0113 | | 107 | 70-160 | | | † |
| tert-Butyl Ethyl Ether (TBEE) | 0.0133 | 0.00057 | mg/Kg wet | 0.0113 | | 117 | 70-130 | | | |
| Carbon Disulfide | 0.0126 | 0.0034 | mg/Kg wet | 0.0113 | | 111 | 70-130 | | | |
| Carbon Tetrachloride | 0.0127 | 0.0011 | mg/Kg wet | 0.0113 | | 112 | 70-130 | | | |
| Chlorobenzene | 0.0129 | 0.0011 | mg/Kg wet | 0.0113 | | 114 | 70-130 | | | |
| Chlorodibromomethane | 0.0132 | 0.00057 | mg/Kg wet | 0.0113 | | 116 | 70-130 | | | |
| Chloroethane | 0.0129 | 0.0023 | mg/Kg wet | 0.0113 | | 114 | 70-130 | | | |
| Chloroform | 0.0132 | 0.0023 | mg/Kg wet | 0.0113 | | 116 | 70-130 | | | |

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

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|------------------------------------|---------|-----------------|-----------|-------------|---------------------------------------|------|-------------|-----|-----------|-------|
| Batch B142050 - SW-846 5035 | | | | | | | | | | |
| LCS (B142050-BS1) | | | | | | | | | | |
| | | | | | Prepared: 02/12/16 Analyzed: 02/17/16 | | | | | |
| Chloromethane | 0.0108 | 0.0023 | mg/Kg wet | 0.0113 | | 95.0 | 70-130 | | | |
| 2-Chlorotoluene | 0.0129 | 0.0011 | mg/Kg wet | 0.0113 | | 114 | 70-130 | | | |
| 4-Chlorotoluene | 0.0130 | 0.0011 | mg/Kg wet | 0.0113 | | 115 | 70-130 | | | |
| 1,2-Dibromo-3-chloropropane (DBCP) | 0.00836 | 0.0057 | mg/Kg wet | 0.0113 | | 73.8 | 70-130 | | | |
| 1,2-Dibromoethane (EDB) | 0.0129 | 0.00057 | mg/Kg wet | 0.0113 | | 114 | 70-130 | | | |
| Dibromomethane | 0.0133 | 0.0011 | mg/Kg wet | 0.0113 | | 117 | 70-130 | | | |
| 1,2-Dichlorobenzene | 0.0123 | 0.0011 | mg/Kg wet | 0.0113 | | 109 | 70-130 | | | |
| 1,3-Dichlorobenzene | 0.0128 | 0.0011 | mg/Kg wet | 0.0113 | | 113 | 70-130 | | | |
| 1,4-Dichlorobenzene | 0.0123 | 0.0011 | mg/Kg wet | 0.0113 | | 108 | 70-130 | | | |
| trans-1,4-Dichloro-2-butene | 0.00883 | 0.0023 | mg/Kg wet | 0.0113 | | 77.9 | 70-130 | | | |
| Dichlorodifluoromethane (Freon 12) | 0.00604 | 0.0023 | mg/Kg wet | 0.0113 | | 53.3 | 40-160 | | | † |
| 1,1-Dichloroethane | 0.0134 | 0.0011 | mg/Kg wet | 0.0113 | | 118 | 70-130 | | | |
| 1,2-Dichloroethane | 0.0120 | 0.0011 | mg/Kg wet | 0.0113 | | 106 | 70-130 | | | |
| 1,1-Dichloroethylene | 0.0123 | 0.0011 | mg/Kg wet | 0.0113 | | 109 | 70-130 | | | |
| cis-1,2-Dichloroethylene | 0.0127 | 0.0011 | mg/Kg wet | 0.0113 | | 112 | 70-130 | | | |
| trans-1,2-Dichloroethylene | 0.0122 | 0.0011 | mg/Kg wet | 0.0113 | | 108 | 70-130 | | | |
| 1,2-Dichloropropane | 0.0135 | 0.0011 | mg/Kg wet | 0.0113 | | 119 | 70-130 | | | |
| 1,3-Dichloropropane | 0.0126 | 0.00057 | mg/Kg wet | 0.0113 | | 111 | 70-130 | | | |
| 2,2-Dichloropropane | 0.0128 | 0.0011 | mg/Kg wet | 0.0113 | | 113 | 70-130 | | | |
| 1,1-Dichloropropene | 0.0126 | 0.0023 | mg/Kg wet | 0.0113 | | 111 | 70-130 | | | |
| cis-1,3-Dichloropropene | 0.0129 | 0.00057 | mg/Kg wet | 0.0113 | | 114 | 70-130 | | | |
| trans-1,3-Dichloropropene | 0.0135 | 0.00057 | mg/Kg wet | 0.0113 | | 119 | 70-130 | | | |
| Diethyl Ether | 0.0143 | 0.0023 | mg/Kg wet | 0.0113 | | 126 | 70-130 | | | |
| Diisopropyl Ether (DIPE) | 0.0118 | 0.00057 | mg/Kg wet | 0.0113 | | 104 | 70-130 | | | |
| 1,4-Dioxane | 0.0844 | 0.057 | mg/Kg wet | 0.113 | | 74.5 | 40-160 | | | † |
| Ethylbenzene | 0.0131 | 0.0011 | mg/Kg wet | 0.0113 | | 116 | 70-130 | | | |
| Hexachlorobutadiene | 0.0126 | 0.0011 | mg/Kg wet | 0.0113 | | 111 | 70-160 | | | † |
| 2-Hexanone (MBK) | 0.0798 | 0.011 | mg/Kg wet | 0.113 | | 70.5 | 70-160 | | | † |
| Isopropylbenzene (Cumene) | 0.0128 | 0.0011 | mg/Kg wet | 0.0113 | | 113 | 70-130 | | | |
| p-Isopropyltoluene (p-Cymene) | 0.0136 | 0.0011 | mg/Kg wet | 0.0113 | | 120 | 70-130 | | | |
| Methyl Acetate | 0.0120 | 0.011 | mg/Kg wet | 0.0113 | | 106 | 70-130 | | | |
| Methyl tert-Butyl Ether (MTBE) | 0.0120 | 0.0011 | mg/Kg wet | 0.0113 | | 106 | 70-130 | | | |
| Methyl Cyclohexane | 0.0132 | 0.0011 | mg/Kg wet | 0.0113 | | 116 | 70-130 | | | |
| Methylene Chloride | 0.0129 | 0.0057 | mg/Kg wet | 0.0113 | | 114 | 40-160 | | | † |
| 4-Methyl-2-pentanone (MIBK) | 0.0867 | 0.011 | mg/Kg wet | 0.113 | | 76.5 | 70-160 | | | † |
| Naphthalene | 0.0100 | 0.0023 | mg/Kg wet | 0.0113 | | 88.3 | 40-130 | | | † |
| n-Propylbenzene | 0.0133 | 0.0011 | mg/Kg wet | 0.0113 | | 117 | 70-130 | | | |
| Styrene | 0.0143 | 0.0011 | mg/Kg wet | 0.0113 | | 126 | 70-130 | | | |
| 1,1,1,2-Tetrachloroethane | 0.0137 | 0.0011 | mg/Kg wet | 0.0113 | | 121 | 70-130 | | | |
| 1,1,2,2-Tetrachloroethane | 0.0111 | 0.00057 | mg/Kg wet | 0.0113 | | 97.7 | 70-130 | | | |
| Tetrachloroethylene | 0.0128 | 0.0011 | mg/Kg wet | 0.0113 | | 113 | 70-130 | | | |
| Tetrahydrofuran | 0.0102 | 0.011 | mg/Kg wet | 0.0113 | | 89.8 | 70-130 | | | |
| Toluene | 0.0134 | 0.0011 | mg/Kg wet | 0.0113 | | 118 | 70-130 | | | |
| 1,2,3-Trichlorobenzene | 0.0113 | 0.0057 | mg/Kg wet | 0.0113 | | 99.9 | 70-130 | | | |
| 1,2,4-Trichlorobenzene | 0.0130 | 0.0011 | mg/Kg wet | 0.0113 | | 115 | 70-130 | | | |
| 1,3,5-Trichlorobenzene | 0.0124 | 0.0011 | mg/Kg wet | 0.0113 | | 109 | 70-130 | | | |
| 1,1,1-Trichloroethane | 0.0123 | 0.0011 | mg/Kg wet | 0.0113 | | 109 | 70-130 | | | |
| 1,1,2-Trichloroethane | 0.0133 | 0.0011 | mg/Kg wet | 0.0113 | | 117 | 70-130 | | | |
| Trichloroethylene | 0.0135 | 0.0011 | mg/Kg wet | 0.0113 | | 119 | 70-130 | | | |
| Trichlorofluoromethane (Freon 11) | 0.0118 | 0.0023 | mg/Kg wet | 0.0113 | | 104 | 70-130 | | | |
| 1,2,3-Trichloropropane | 0.0106 | 0.0023 | mg/Kg wet | 0.0113 | | 93.6 | 70-130 | | | |

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

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

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

Batch B142050 - SW-846 5035

LCS (B142050-BS1)

Prepared: 02/12/16 Analyzed: 02/17/16

| | | | | | | | | | | |
|---------------------------------------------------|--------|--------|-----------|--------|--|------|--------|--|--|---|
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | 0.0125 | 0.0011 | mg/Kg wet | 0.0113 | | 110 | 70-130 | | | |
| 1,2,4-Trimethylbenzene | 0.0131 | 0.0011 | mg/Kg wet | 0.0113 | | 115 | 70-130 | | | |
| 1,3,5-Trimethylbenzene | 0.0140 | 0.0011 | mg/Kg wet | 0.0113 | | 123 | 70-130 | | | |
| Vinyl Chloride | 0.0108 | 0.0023 | mg/Kg wet | 0.0113 | | 95.7 | 40-130 | | | † |
| m+p Xylene | 0.0265 | 0.0023 | mg/Kg wet | 0.0227 | | 117 | 70-130 | | | |
| o-Xylene | 0.0130 | 0.0011 | mg/Kg wet | 0.0113 | | 115 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0275 | | mg/Kg wet | 0.0283 | | 97.2 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.0285 | | mg/Kg wet | 0.0283 | | 101 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.0289 | | mg/Kg wet | 0.0283 | | 102 | 70-130 | | | |

LCS Dup (B142050-BSD1)

Prepared: 02/12/16 Analyzed: 02/17/16

| | | | | | | | | | | |
|------------------------------------|---------|---------|-----------|--------|--|--------|--------|--------|----|--------|
| Acetone | 0.0853 | 0.057 | mg/Kg wet | 0.113 | | 75.3 | 70-160 | 0.754 | 25 | † |
| Acrylonitrile | 0.0102 | 0.0057 | mg/Kg wet | 0.0113 | | 90.0 | 70-130 | 6.42 | 25 | |
| tert-Amyl Methyl Ether (TAME) | 0.0121 | 0.00057 | mg/Kg wet | 0.0113 | | 107 | 70-130 | 6.45 | 25 | |
| Benzene | 0.0131 | 0.0011 | mg/Kg wet | 0.0113 | | 116 | 70-130 | 2.48 | 25 | |
| Bromobenzene | 0.0134 | 0.0011 | mg/Kg wet | 0.0113 | | 118 | 70-130 | 2.17 | 25 | |
| Bromochloromethane | 0.0142 | 0.0011 | mg/Kg wet | 0.0113 | | 125 | 70-130 | 3.61 | 25 | |
| Bromodichloromethane | 0.0133 | 0.0011 | mg/Kg wet | 0.0113 | | 117 | 70-130 | 3.84 | 25 | |
| Bromoform | 0.0114 | 0.0011 | mg/Kg wet | 0.0113 | | 101 | 70-130 | 5.59 | 25 | |
| Bromomethane | 0.0107 | 0.0023 | mg/Kg wet | 0.0113 | | 94.7 | 40-130 | 13.9 | 25 | V-20 † |
| 2-Butanone (MEK) | 0.0748 | 0.023 | mg/Kg wet | 0.113 | | 66.0 * | 70-160 | 2.20 | 25 | L-04 † |
| tert-Butyl Alcohol (TBA) | 0.0843 | 0.023 | mg/Kg wet | 0.113 | | 74.4 | 40-130 | 0.837 | 25 | † |
| n-Butylbenzene | 0.0128 | 0.0011 | mg/Kg wet | 0.0113 | | 113 | 70-130 | 2.10 | 25 | |
| sec-Butylbenzene | 0.0126 | 0.0011 | mg/Kg wet | 0.0113 | | 111 | 70-130 | 0.983 | 25 | |
| tert-Butylbenzene | 0.0120 | 0.0011 | mg/Kg wet | 0.0113 | | 106 | 70-160 | 1.32 | 25 | † |
| tert-Butyl Ethyl Ether (TBEE) | 0.0127 | 0.00057 | mg/Kg wet | 0.0113 | | 112 | 70-130 | 4.89 | 25 | |
| Carbon Disulfide | 0.0119 | 0.0034 | mg/Kg wet | 0.0113 | | 105 | 70-130 | 6.11 | 25 | |
| Carbon Tetrachloride | 0.0127 | 0.0011 | mg/Kg wet | 0.0113 | | 112 | 70-130 | 0.178 | 25 | |
| Chlorobenzene | 0.0125 | 0.0011 | mg/Kg wet | 0.0113 | | 110 | 70-130 | 3.66 | 25 | |
| Chlorodibromomethane | 0.0129 | 0.00057 | mg/Kg wet | 0.0113 | | 114 | 70-130 | 2.00 | 25 | |
| Chloroethane | 0.0129 | 0.0023 | mg/Kg wet | 0.0113 | | 114 | 70-130 | 0.176 | 25 | |
| Chloroform | 0.0128 | 0.0023 | mg/Kg wet | 0.0113 | | 113 | 70-130 | 2.97 | 25 | |
| Chloromethane | 0.0112 | 0.0023 | mg/Kg wet | 0.0113 | | 99.0 | 70-130 | 4.12 | 25 | |
| 2-Chlorotoluene | 0.0128 | 0.0011 | mg/Kg wet | 0.0113 | | 113 | 70-130 | 0.972 | 25 | |
| 4-Chlorotoluene | 0.0127 | 0.0011 | mg/Kg wet | 0.0113 | | 112 | 70-130 | 1.94 | 25 | |
| 1,2-Dibromo-3-chloropropane (DBCP) | 0.00821 | 0.0057 | mg/Kg wet | 0.0113 | | 72.4 | 70-130 | 1.92 | 25 | |
| 1,2-Dibromoethane (EDB) | 0.0125 | 0.00057 | mg/Kg wet | 0.0113 | | 111 | 70-130 | 2.59 | 25 | |
| Dibromomethane | 0.0132 | 0.0011 | mg/Kg wet | 0.0113 | | 116 | 70-130 | 0.858 | 25 | |
| 1,2-Dichlorobenzene | 0.0121 | 0.0011 | mg/Kg wet | 0.0113 | | 107 | 70-130 | 1.76 | 25 | |
| 1,3-Dichlorobenzene | 0.0125 | 0.0011 | mg/Kg wet | 0.0113 | | 110 | 70-130 | 2.25 | 25 | |
| 1,4-Dichlorobenzene | 0.0123 | 0.0011 | mg/Kg wet | 0.0113 | | 109 | 70-130 | 0.277 | 25 | |
| trans-1,4-Dichloro-2-butene | 0.00827 | 0.0023 | mg/Kg wet | 0.0113 | | 73.0 | 70-130 | 6.49 | 25 | |
| Dichlorodifluoromethane (Freon 12) | 0.00596 | 0.0023 | mg/Kg wet | 0.0113 | | 52.6 | 40-160 | 1.32 | 25 | † |
| 1,1-Dichloroethane | 0.0131 | 0.0011 | mg/Kg wet | 0.0113 | | 116 | 70-130 | 2.31 | 25 | |
| 1,2-Dichloroethane | 0.0118 | 0.0011 | mg/Kg wet | 0.0113 | | 104 | 70-130 | 2.00 | 25 | |
| 1,1-Dichloroethylene | 0.0122 | 0.0011 | mg/Kg wet | 0.0113 | | 108 | 70-130 | 0.833 | 25 | |
| cis-1,2-Dichloroethylene | 0.0126 | 0.0011 | mg/Kg wet | 0.0113 | | 112 | 70-130 | 0.714 | 25 | |
| trans-1,2-Dichloroethylene | 0.0122 | 0.0011 | mg/Kg wet | 0.0113 | | 108 | 70-130 | 0.0929 | 25 | |
| 1,2-Dichloropropane | 0.0131 | 0.0011 | mg/Kg wet | 0.0113 | | 115 | 70-130 | 3.07 | 25 | |
| 1,3-Dichloropropane | 0.0125 | 0.00057 | mg/Kg wet | 0.0113 | | 110 | 70-130 | 0.993 | 25 | |
| 2,2-Dichloropropane | 0.0123 | 0.0011 | mg/Kg wet | 0.0113 | | 108 | 70-130 | 3.89 | 25 | |
| 1,1-Dichloropropene | 0.0124 | 0.0023 | mg/Kg wet | 0.0113 | | 110 | 70-130 | 1.45 | 25 | |

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

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

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

Batch B142050 - SW-846 5035

LCS Dup (B142050-BSD1)

Prepared: 02/12/16 Analyzed: 02/17/16

| | | | | | | | | | | |
|---------------------------------------------------|---------|---------|-----------|--------|--|-------------|----------|-------|----|--------|
| cis-1,3-Dichloropropene | 0.0126 | 0.00057 | mg/Kg wet | 0.0113 | | 111 | 70-130 | 2.31 | 25 | |
| trans-1,3-Dichloropropene | 0.0131 | 0.00057 | mg/Kg wet | 0.0113 | | 116 | 70-130 | 3.07 | 25 | |
| Diethyl Ether | 0.0138 | 0.0023 | mg/Kg wet | 0.0113 | | 122 | 70-130 | 3.39 | 25 | |
| Diisopropyl Ether (DIPE) | 0.0114 | 0.00057 | mg/Kg wet | 0.0113 | | 101 | 70-130 | 3.51 | 25 | |
| 1,4-Dioxane | 0.0851 | 0.057 | mg/Kg wet | 0.113 | | 75.1 | 40-160 | 0.816 | 50 | † ‡ |
| Ethylbenzene | 0.0129 | 0.0011 | mg/Kg wet | 0.0113 | | 114 | 70-130 | 1.39 | 25 | |
| Hexachlorobutadiene | 0.0125 | 0.0011 | mg/Kg wet | 0.0113 | | 110 | 70-160 | 0.995 | 25 | |
| 2-Hexanone (MBK) | 0.0766 | 0.011 | mg/Kg wet | 0.113 | | 67.6 | * 70-160 | 4.13 | 25 | L-07 † |
| Isopropylbenzene (Cumene) | 0.0125 | 0.0011 | mg/Kg wet | 0.0113 | | 110 | 70-130 | 2.50 | 25 | |
| p-Isopropyltoluene (p-Cymene) | 0.0135 | 0.0011 | mg/Kg wet | 0.0113 | | 119 | 70-130 | 1.17 | 25 | |
| Methyl Acetate | 0.0118 | 0.011 | mg/Kg wet | 0.0113 | | 104 | 70-130 | 1.81 | 25 | |
| Methyl tert-Butyl Ether (MTBE) | 0.0114 | 0.0011 | mg/Kg wet | 0.0113 | | 101 | 70-130 | 5.42 | 25 | |
| Methyl Cyclohexane | 0.0129 | 0.0011 | mg/Kg wet | 0.0113 | | 114 | 70-130 | 2.35 | 25 | |
| Methylene Chloride | 0.0129 | 0.0057 | mg/Kg wet | 0.0113 | | 114 | 40-160 | 0.175 | 25 | † |
| 4-Methyl-2-pentanone (MIBK) | 0.0850 | 0.011 | mg/Kg wet | 0.113 | | 75.0 | 70-160 | 1.98 | 25 | † |
| Naphthalene | 0.00976 | 0.0023 | mg/Kg wet | 0.0113 | | 86.1 | 40-130 | 2.52 | 25 | † |
| n-Propylbenzene | 0.0130 | 0.0011 | mg/Kg wet | 0.0113 | | 115 | 70-130 | 1.72 | 25 | |
| Styrene | 0.0138 | 0.0011 | mg/Kg wet | 0.0113 | | 122 | 70-130 | 3.15 | 25 | |
| 1,1,1,2-Tetrachloroethane | 0.0135 | 0.0011 | mg/Kg wet | 0.0113 | | 119 | 70-130 | 1.92 | 25 | |
| 1,1,2,2-Tetrachloroethane | 0.0108 | 0.00057 | mg/Kg wet | 0.0113 | | 95.5 | 70-130 | 2.28 | 25 | |
| Tetrachloroethylene | 0.0127 | 0.0011 | mg/Kg wet | 0.0113 | | 112 | 70-130 | 0.623 | 25 | |
| Tetrahydrofuran | 0.00968 | 0.011 | mg/Kg wet | 0.0113 | | 85.4 | 70-130 | 5.02 | 25 | |
| Toluene | 0.0133 | 0.0011 | mg/Kg wet | 0.0113 | | 117 | 70-130 | 0.425 | 25 | |
| 1,2,3-Trichlorobenzene | 0.0110 | 0.0057 | mg/Kg wet | 0.0113 | | 97.1 | 70-130 | 2.84 | 25 | |
| 1,2,4-Trichlorobenzene | 0.0130 | 0.0011 | mg/Kg wet | 0.0113 | | 115 | 70-130 | 0.348 | 25 | |
| 1,3,5-Trichlorobenzene | 0.0123 | 0.0011 | mg/Kg wet | 0.0113 | | 108 | 70-130 | 0.644 | 25 | |
| 1,1,1-Trichloroethane | 0.0121 | 0.0011 | mg/Kg wet | 0.0113 | | 107 | 70-130 | 1.95 | 25 | |
| 1,1,2-Trichloroethane | 0.0129 | 0.0011 | mg/Kg wet | 0.0113 | | 114 | 70-130 | 2.95 | 25 | |
| Trichloroethylene | 0.0126 | 0.0011 | mg/Kg wet | 0.0113 | | 111 | 70-130 | 7.12 | 25 | |
| Trichlorofluoromethane (Freon 11) | 0.0115 | 0.0023 | mg/Kg wet | 0.0113 | | 102 | 70-130 | 2.43 | 25 | |
| 1,2,3-Trichloropropane | 0.0102 | 0.0023 | mg/Kg wet | 0.0113 | | 90.3 | 70-130 | 3.59 | 25 | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | 0.0126 | 0.0011 | mg/Kg wet | 0.0113 | | 111 | 70-130 | 0.723 | 25 | |
| 1,2,4-Trimethylbenzene | 0.0129 | 0.0011 | mg/Kg wet | 0.0113 | | 114 | 70-130 | 1.13 | 25 | |
| 1,3,5-Trimethylbenzene | 0.0135 | 0.0011 | mg/Kg wet | 0.0113 | | 119 | 70-130 | 3.29 | 25 | |
| Vinyl Chloride | 0.0108 | 0.0023 | mg/Kg wet | 0.0113 | | 95.1 | 40-130 | 0.629 | 25 | † |
| m+p Xylene | 0.0258 | 0.0023 | mg/Kg wet | 0.0227 | | 114 | 70-130 | 2.47 | 25 | |
| o-Xylene | 0.0129 | 0.0011 | mg/Kg wet | 0.0113 | | 114 | 70-130 | 1.05 | 25 | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0274 | | mg/Kg wet | 0.0283 | | 96.6 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.0280 | | mg/Kg wet | 0.0283 | | 98.7 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.0285 | | mg/Kg wet | 0.0283 | | 100 | 70-130 | | | |

Batch B142076 - SW-846 5035

Blank (B142076-BLK1)

Prepared & Analyzed: 02/12/16

| | | | | | | | | | | |
|-------------------------------|----|--------|-----------|--|--|--|--|--|--|--|
| Acetone | ND | 0.10 | mg/Kg wet | | | | | | | |
| Acrylonitrile | ND | 0.0060 | 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 | | | | | | | |

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

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

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

Batch B142076 - SW-846 5035

Blank (B142076-BLK1)

Prepared & Analyzed: 02/12/16

| | | | | | | | | | | |
|------------------------------------|----|--------|-----------|--|--|--|--|--|--|------|
| Bromomethane | ND | 0.010 | mg/Kg wet | | | | | | | |
| 2-Butanone (MEK) | ND | 0.040 | mg/Kg wet | | | | | | | |
| tert-Butyl Alcohol (TBA) | ND | 0.040 | mg/Kg wet | | | | | | | |
| n-Butylbenzene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| sec-Butylbenzene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| tert-Butylbenzene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| tert-Butyl Ethyl Ether (TBEE) | ND | 0.0010 | mg/Kg wet | | | | | | | |
| Carbon Disulfide | ND | 0.0060 | mg/Kg wet | | | | | | | |
| Carbon Tetrachloride | ND | 0.0020 | mg/Kg wet | | | | | | | |
| Chlorobenzene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| Chlorodibromomethane | ND | 0.0010 | mg/Kg wet | | | | | | | |
| Chloroethane | ND | 0.020 | mg/Kg wet | | | | | | | |
| Chloroform | ND | 0.0040 | mg/Kg wet | | | | | | | |
| Chloromethane | ND | 0.010 | mg/Kg wet | | | | | | | |
| 2-Chlorotoluene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| 4-Chlorotoluene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 0.0020 | mg/Kg wet | | | | | | | |
| 1,2-Dibromoethane (EDB) | ND | 0.0010 | mg/Kg wet | | | | | | | |
| Dibromomethane | ND | 0.0020 | mg/Kg wet | | | | | | | |
| 1,2-Dichlorobenzene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| 1,3-Dichlorobenzene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| 1,4-Dichlorobenzene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| trans-1,4-Dichloro-2-butene | ND | 0.0040 | mg/Kg wet | | | | | | | |
| Dichlorodifluoromethane (Freon 12) | ND | 0.020 | mg/Kg wet | | | | | | | |
| 1,1-Dichloroethane | ND | 0.0020 | mg/Kg wet | | | | | | | |
| 1,2-Dichloroethane | ND | 0.0020 | mg/Kg wet | | | | | | | |
| 1,1-Dichloroethylene | ND | 0.0040 | mg/Kg wet | | | | | | | |
| cis-1,2-Dichloroethylene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| trans-1,2-Dichloroethylene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| 1,2-Dichloropropane | ND | 0.0020 | mg/Kg wet | | | | | | | |
| 1,3-Dichloropropane | ND | 0.0010 | mg/Kg wet | | | | | | | |
| 2,2-Dichloropropane | ND | 0.0020 | mg/Kg wet | | | | | | | |
| 1,1-Dichloropropene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| cis-1,3-Dichloropropene | ND | 0.0010 | mg/Kg wet | | | | | | | |
| trans-1,3-Dichloropropene | ND | 0.0010 | mg/Kg wet | | | | | | | |
| Diethyl Ether | ND | 0.020 | mg/Kg wet | | | | | | | |
| Diisopropyl Ether (DIPE) | ND | 0.0010 | mg/Kg wet | | | | | | | |
| 1,4-Dioxane | ND | 0.10 | mg/Kg wet | | | | | | | |
| Ethylbenzene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| Hexachlorobutadiene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| 2-Hexanone (MBK) | ND | 0.020 | mg/Kg wet | | | | | | | |
| Isopropylbenzene (Cumene) | ND | 0.0020 | mg/Kg wet | | | | | | | |
| p-Isopropyltoluene (p-Cymene) | ND | 0.0020 | mg/Kg wet | | | | | | | |
| Methyl tert-Butyl Ether (MTBE) | ND | 0.0040 | mg/Kg wet | | | | | | | |
| Methylene Chloride | ND | 0.020 | mg/Kg wet | | | | | | | |
| 4-Methyl-2-pentanone (MIBK) | ND | 0.020 | mg/Kg wet | | | | | | | |
| Naphthalene | ND | 0.0040 | mg/Kg wet | | | | | | | V-05 |
| n-Propylbenzene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| Styrene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 0.0020 | mg/Kg wet | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 0.0010 | mg/Kg wet | | | | | | | |
| Tetrachloroethylene | ND | 0.0020 | mg/Kg wet | | | | | | | |

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

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

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

Batch B142076 - SW-846 5035

Blank (B142076-BLK1)

Prepared & Analyzed: 02/12/16

| | | | | | | | | | | |
|---------------------------------------------------|--------|--------|-----------|--------|--|------|--------|--|--|--|
| Tetrahydrofuran | ND | 0.010 | mg/Kg wet | | | | | | | |
| Toluene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| 1,3,5-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 | | | | | | | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | ND | 0.010 | 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 | 0.0490 | | mg/Kg wet | 0.0500 | | 98.1 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.0484 | | mg/Kg wet | 0.0500 | | 96.7 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.0475 | | mg/Kg wet | 0.0500 | | 95.0 | 70-130 | | | |

LCS (B142076-BS1)

Prepared & Analyzed: 02/12/16

| | | | | | | | | | | |
|------------------------------------|--------|--------|-----------|--------|--|------|--------|--|--|---|
| Acetone | 0.189 | 0.10 | mg/Kg wet | 0.200 | | 94.6 | 70-160 | | | † |
| Acrylonitrile | 0.0192 | 0.0060 | mg/Kg wet | 0.0200 | | 96.0 | 70-130 | | | |
| tert-Amyl Methyl Ether (TAME) | 0.0204 | 0.0010 | mg/Kg wet | 0.0200 | | 102 | 70-130 | | | |
| Benzene | 0.0212 | 0.0020 | mg/Kg wet | 0.0200 | | 106 | 70-130 | | | |
| Bromobenzene | 0.0224 | 0.0020 | mg/Kg wet | 0.0200 | | 112 | 70-130 | | | |
| Bromochloromethane | 0.0228 | 0.0020 | mg/Kg wet | 0.0200 | | 114 | 70-130 | | | |
| Bromodichloromethane | 0.0211 | 0.0020 | mg/Kg wet | 0.0200 | | 106 | 70-130 | | | |
| Bromoform | 0.0187 | 0.0020 | mg/Kg wet | 0.0200 | | 93.7 | 70-130 | | | |
| Bromomethane | 0.0115 | 0.010 | mg/Kg wet | 0.0200 | | 57.5 | 40-130 | | | † |
| 2-Butanone (MEK) | 0.191 | 0.040 | mg/Kg wet | 0.200 | | 95.4 | 70-160 | | | † |
| tert-Butyl Alcohol (TBA) | 0.160 | 0.040 | mg/Kg wet | 0.200 | | 79.9 | 40-130 | | | † |
| n-Butylbenzene | 0.0234 | 0.0020 | mg/Kg wet | 0.0200 | | 117 | 70-130 | | | |
| sec-Butylbenzene | 0.0235 | 0.0020 | mg/Kg wet | 0.0200 | | 117 | 70-130 | | | |
| tert-Butylbenzene | 0.0226 | 0.0020 | mg/Kg wet | 0.0200 | | 113 | 70-160 | | | † |
| tert-Butyl Ethyl Ether (TBEE) | 0.0210 | 0.0010 | mg/Kg wet | 0.0200 | | 105 | 70-130 | | | |
| Carbon Disulfide | 0.0171 | 0.0060 | mg/Kg wet | 0.0200 | | 85.3 | 70-130 | | | |
| Carbon Tetrachloride | 0.0210 | 0.0020 | mg/Kg wet | 0.0200 | | 105 | 70-130 | | | |
| Chlorobenzene | 0.0220 | 0.0020 | mg/Kg wet | 0.0200 | | 110 | 70-130 | | | |
| Chlorodibromomethane | 0.0209 | 0.0010 | mg/Kg wet | 0.0200 | | 104 | 70-130 | | | |
| Chloroethane | 0.0185 | 0.020 | mg/Kg wet | 0.0200 | | 92.6 | 70-130 | | | |
| Chloroform | 0.0208 | 0.0040 | mg/Kg wet | 0.0200 | | 104 | 70-130 | | | |
| Chloromethane | 0.0145 | 0.010 | mg/Kg wet | 0.0200 | | 72.6 | 70-130 | | | |
| 2-Chlorotoluene | 0.0223 | 0.0020 | mg/Kg wet | 0.0200 | | 112 | 70-130 | | | |
| 4-Chlorotoluene | 0.0219 | 0.0020 | mg/Kg wet | 0.0200 | | 110 | 70-130 | | | |
| 1,2-Dibromo-3-chloropropane (DBCP) | 0.0173 | 0.0020 | mg/Kg wet | 0.0200 | | 86.3 | 70-130 | | | |
| 1,2-Dibromoethane (EDB) | 0.0210 | 0.0010 | mg/Kg wet | 0.0200 | | 105 | 70-130 | | | |
| Dibromomethane | 0.0215 | 0.0020 | mg/Kg wet | 0.0200 | | 107 | 70-130 | | | |
| 1,2-Dichlorobenzene | 0.0211 | 0.0020 | mg/Kg wet | 0.0200 | | 105 | 70-130 | | | |
| 1,3-Dichlorobenzene | 0.0212 | 0.0020 | mg/Kg wet | 0.0200 | | 106 | 70-130 | | | |
| 1,4-Dichlorobenzene | 0.0206 | 0.0020 | mg/Kg wet | 0.0200 | | 103 | 70-130 | | | |
| trans-1,4-Dichloro-2-butene | 0.0184 | 0.0040 | mg/Kg wet | 0.0200 | | 92.0 | 70-130 | | | |

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

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------------------------------------------------|--------|-----------------|-----------|-------------|---------------|------|-------------|-----|-----------|--------|
| Batch B142076 - SW-846 5035 | | | | | | | | | | |
| LCS (B142076-BS1) | | | | | | | | | | |
| Prepared & Analyzed: 02/12/16 | | | | | | | | | | |
| Dichlorodifluoromethane (Freon 12) | 0.0148 | 0.020 | mg/Kg wet | 0.0200 | | 73.9 | 40-160 | | | † |
| 1,1-Dichloroethane | 0.0206 | 0.0020 | mg/Kg wet | 0.0200 | | 103 | 70-130 | | | |
| 1,2-Dichloroethane | 0.0204 | 0.0020 | mg/Kg wet | 0.0200 | | 102 | 70-130 | | | |
| 1,1-Dichloroethylene | 0.0180 | 0.0040 | mg/Kg wet | 0.0200 | | 89.8 | 70-130 | | | |
| cis-1,2-Dichloroethylene | 0.0196 | 0.0020 | mg/Kg wet | 0.0200 | | 98.2 | 70-130 | | | |
| trans-1,2-Dichloroethylene | 0.0193 | 0.0020 | mg/Kg wet | 0.0200 | | 96.5 | 70-130 | | | |
| 1,2-Dichloropropane | 0.0217 | 0.0020 | mg/Kg wet | 0.0200 | | 108 | 70-130 | | | |
| 1,3-Dichloropropane | 0.0204 | 0.0010 | mg/Kg wet | 0.0200 | | 102 | 70-130 | | | |
| 2,2-Dichloropropane | 0.0199 | 0.0020 | mg/Kg wet | 0.0200 | | 99.7 | 70-130 | | | |
| 1,1-Dichloropropene | 0.0216 | 0.0020 | mg/Kg wet | 0.0200 | | 108 | 70-130 | | | |
| cis-1,3-Dichloropropene | 0.0193 | 0.0010 | mg/Kg wet | 0.0200 | | 96.6 | 70-130 | | | |
| trans-1,3-Dichloropropene | 0.0188 | 0.0010 | mg/Kg wet | 0.0200 | | 94.2 | 70-130 | | | |
| Diethyl Ether | 0.0188 | 0.020 | mg/Kg wet | 0.0200 | | 94.0 | 70-130 | | | |
| Diisopropyl Ether (DIPE) | 0.0200 | 0.0010 | mg/Kg wet | 0.0200 | | 100 | 70-130 | | | |
| 1,4-Dioxane | 0.183 | 0.10 | mg/Kg wet | 0.200 | | 91.5 | 40-160 | | | † |
| Ethylbenzene | 0.0229 | 0.0020 | mg/Kg wet | 0.0200 | | 115 | 70-130 | | | |
| Hexachlorobutadiene | 0.0219 | 0.0020 | mg/Kg wet | 0.0200 | | 110 | 70-160 | | | |
| 2-Hexanone (MBK) | 0.196 | 0.020 | mg/Kg wet | 0.200 | | 98.2 | 70-160 | | | † |
| Isopropylbenzene (Cumene) | 0.0234 | 0.0020 | mg/Kg wet | 0.0200 | | 117 | 70-130 | | | |
| p-Isopropyltoluene (p-Cymene) | 0.0236 | 0.0020 | mg/Kg wet | 0.0200 | | 118 | 70-130 | | | |
| Methyl tert-Butyl Ether (MTBE) | 0.0202 | 0.0040 | mg/Kg wet | 0.0200 | | 101 | 70-130 | | | |
| Methylene Chloride | 0.0181 | 0.020 | mg/Kg wet | 0.0200 | | 90.5 | 40-160 | | | † |
| 4-Methyl-2-pentanone (MIBK) | 0.194 | 0.020 | mg/Kg wet | 0.200 | | 96.8 | 70-160 | | | † |
| Naphthalene | 0.0150 | 0.0040 | mg/Kg wet | 0.0200 | | 74.8 | 40-130 | | | V-05 † |
| n-Propylbenzene | 0.0232 | 0.0020 | mg/Kg wet | 0.0200 | | 116 | 70-130 | | | |
| Styrene | 0.0231 | 0.0020 | mg/Kg wet | 0.0200 | | 115 | 70-130 | | | |
| 1,1,1,2-Tetrachloroethane | 0.0225 | 0.0020 | mg/Kg wet | 0.0200 | | 113 | 70-130 | | | |
| 1,1,1,2,2-Tetrachloroethane | 0.0211 | 0.0010 | mg/Kg wet | 0.0200 | | 106 | 70-130 | | | |
| Tetrachloroethylene | 0.0237 | 0.0020 | mg/Kg wet | 0.0200 | | 118 | 70-130 | | | |
| Tetrahydrofuran | 0.0213 | 0.010 | mg/Kg wet | 0.0200 | | 107 | 70-130 | | | |
| Toluene | 0.0212 | 0.0020 | mg/Kg wet | 0.0200 | | 106 | 70-130 | | | |
| 1,2,3-Trichlorobenzene | 0.0168 | 0.0020 | mg/Kg wet | 0.0200 | | 83.8 | 70-130 | | | |
| 1,2,4-Trichlorobenzene | 0.0172 | 0.0020 | mg/Kg wet | 0.0200 | | 85.9 | 70-130 | | | |
| 1,3,5-Trichlorobenzene | 0.0205 | 0.0020 | mg/Kg wet | 0.0200 | | 103 | 70-130 | | | |
| 1,1,1-Trichloroethane | 0.0209 | 0.0020 | mg/Kg wet | 0.0200 | | 105 | 70-130 | | | |
| 1,1,2-Trichloroethane | 0.0219 | 0.0020 | mg/Kg wet | 0.0200 | | 110 | 70-130 | | | |
| Trichloroethylene | 0.0215 | 0.0020 | mg/Kg wet | 0.0200 | | 108 | 70-130 | | | |
| Trichlorofluoromethane (Freon 11) | 0.0182 | 0.010 | mg/Kg wet | 0.0200 | | 91.0 | 70-130 | | | |
| 1,2,3-Trichloropropane | 0.0204 | 0.0020 | mg/Kg wet | 0.0200 | | 102 | 70-130 | | | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | 0.0190 | 0.010 | mg/Kg wet | 0.0200 | | 94.9 | 70-130 | | | |
| 1,2,4-Trimethylbenzene | 0.0231 | 0.0020 | mg/Kg wet | 0.0200 | | 115 | 70-130 | | | |
| 1,3,5-Trimethylbenzene | 0.0240 | 0.0020 | mg/Kg wet | 0.0200 | | 120 | 70-130 | | | |
| Vinyl Chloride | 0.0165 | 0.010 | mg/Kg wet | 0.0200 | | 82.6 | 40-130 | | | † |
| m+p Xylene | 0.0449 | 0.0040 | mg/Kg wet | 0.0400 | | 112 | 70-130 | | | |
| o-Xylene | 0.0221 | 0.0020 | mg/Kg wet | 0.0200 | | 110 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0485 | | mg/Kg wet | 0.0500 | | 97.0 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.0492 | | mg/Kg wet | 0.0500 | | 98.3 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.0496 | | mg/Kg wet | 0.0500 | | 99.1 | 70-130 | | | |

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

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|------------------------------------|--------|-----------------|-----------|-------------|---------------|------|-------------|------|-----------|-------|
| Batch B142076 - SW-846 5035 | | | | | | | | | | |
| LCS Dup (B142076-BSD1) | | | | | | | | | | |
| Prepared & Analyzed: 02/12/16 | | | | | | | | | | |
| Acetone | 0.220 | 0.10 | mg/Kg wet | 0.200 | | 110 | 70-160 | 14.9 | 25 | † |
| Acrylonitrile | 0.0224 | 0.0060 | mg/Kg wet | 0.0200 | | 112 | 70-130 | 15.6 | 25 | |
| tert-Amyl Methyl Ether (TAME) | 0.0229 | 0.0010 | mg/Kg wet | 0.0200 | | 114 | 70-130 | 11.7 | 25 | |
| Benzene | 0.0239 | 0.0020 | mg/Kg wet | 0.0200 | | 119 | 70-130 | 11.9 | 25 | |
| Bromobenzene | 0.0243 | 0.0020 | mg/Kg wet | 0.0200 | | 121 | 70-130 | 7.97 | 25 | |
| Bromochloromethane | 0.0253 | 0.0020 | mg/Kg wet | 0.0200 | | 126 | 70-130 | 10.3 | 25 | |
| Bromodichloromethane | 0.0235 | 0.0020 | mg/Kg wet | 0.0200 | | 117 | 70-130 | 10.7 | 25 | |
| Bromoform | 0.0209 | 0.0020 | mg/Kg wet | 0.0200 | | 105 | 70-130 | 11.1 | 25 | |
| Bromomethane | 0.0130 | 0.010 | mg/Kg wet | 0.0200 | | 65.2 | 40-130 | 12.6 | 25 | † |
| 2-Butanone (MEK) | 0.224 | 0.040 | mg/Kg wet | 0.200 | | 112 | 70-160 | 15.9 | 25 | † |
| tert-Butyl Alcohol (TBA) | 0.176 | 0.040 | mg/Kg wet | 0.200 | | 88.1 | 40-130 | 9.74 | 25 | † |
| n-Butylbenzene | 0.0257 | 0.0020 | mg/Kg wet | 0.0200 | | 129 | 70-130 | 9.35 | 25 | |
| sec-Butylbenzene | 0.0255 | 0.0020 | mg/Kg wet | 0.0200 | | 128 | 70-130 | 8.40 | 25 | |
| tert-Butylbenzene | 0.0245 | 0.0020 | mg/Kg wet | 0.0200 | | 122 | 70-160 | 7.89 | 25 | † |
| tert-Butyl Ethyl Ether (TBEE) | 0.0236 | 0.0010 | mg/Kg wet | 0.0200 | | 118 | 70-130 | 11.3 | 25 | |
| Carbon Disulfide | 0.0174 | 0.0060 | mg/Kg wet | 0.0200 | | 87.2 | 70-130 | 2.20 | 25 | |
| Carbon Tetrachloride | 0.0236 | 0.0020 | mg/Kg wet | 0.0200 | | 118 | 70-130 | 11.3 | 25 | |
| Chlorobenzene | 0.0240 | 0.0020 | mg/Kg wet | 0.0200 | | 120 | 70-130 | 8.60 | 25 | |
| Chlorodibromomethane | 0.0225 | 0.0010 | mg/Kg wet | 0.0200 | | 113 | 70-130 | 7.74 | 25 | |
| Chloroethane | 0.0195 | 0.020 | mg/Kg wet | 0.0200 | | 97.5 | 70-130 | 5.16 | 25 | |
| Chloroform | 0.0232 | 0.0040 | mg/Kg wet | 0.0200 | | 116 | 70-130 | 11.1 | 25 | |
| Chloromethane | 0.0143 | 0.010 | mg/Kg wet | 0.0200 | | 71.5 | 70-130 | 1.53 | 25 | |
| 2-Chlorotoluene | 0.0242 | 0.0020 | mg/Kg wet | 0.0200 | | 121 | 70-130 | 7.83 | 25 | |
| 4-Chlorotoluene | 0.0233 | 0.0020 | mg/Kg wet | 0.0200 | | 117 | 70-130 | 6.19 | 25 | |
| 1,2-Dibromo-3-chloropropane (DBCP) | 0.0189 | 0.0020 | mg/Kg wet | 0.0200 | | 94.7 | 70-130 | 9.28 | 25 | |
| 1,2-Dibromoethane (EDB) | 0.0237 | 0.0010 | mg/Kg wet | 0.0200 | | 118 | 70-130 | 11.7 | 25 | |
| Dibromomethane | 0.0239 | 0.0020 | mg/Kg wet | 0.0200 | | 119 | 70-130 | 10.7 | 25 | |
| 1,2-Dichlorobenzene | 0.0232 | 0.0020 | mg/Kg wet | 0.0200 | | 116 | 70-130 | 9.76 | 25 | |
| 1,3-Dichlorobenzene | 0.0231 | 0.0020 | mg/Kg wet | 0.0200 | | 116 | 70-130 | 8.48 | 25 | |
| 1,4-Dichlorobenzene | 0.0227 | 0.0020 | mg/Kg wet | 0.0200 | | 114 | 70-130 | 9.89 | 25 | |
| trans-1,4-Dichloro-2-butene | 0.0190 | 0.0040 | mg/Kg wet | 0.0200 | | 95.2 | 70-130 | 3.42 | 25 | |
| Dichlorodifluoromethane (Freon 12) | 0.0145 | 0.020 | mg/Kg wet | 0.0200 | | 72.6 | 40-160 | 1.77 | 25 | † |
| 1,1-Dichloroethane | 0.0231 | 0.0020 | mg/Kg wet | 0.0200 | | 115 | 70-130 | 11.2 | 25 | |
| 1,2-Dichloroethane | 0.0236 | 0.0020 | mg/Kg wet | 0.0200 | | 118 | 70-130 | 14.4 | 25 | |
| 1,1-Dichloroethylene | 0.0187 | 0.0040 | mg/Kg wet | 0.0200 | | 93.4 | 70-130 | 3.93 | 25 | |
| cis-1,2-Dichloroethylene | 0.0224 | 0.0020 | mg/Kg wet | 0.0200 | | 112 | 70-130 | 13.0 | 25 | |
| trans-1,2-Dichloroethylene | 0.0218 | 0.0020 | mg/Kg wet | 0.0200 | | 109 | 70-130 | 12.3 | 25 | |
| 1,2-Dichloropropane | 0.0244 | 0.0020 | mg/Kg wet | 0.0200 | | 122 | 70-130 | 11.8 | 25 | |
| 1,3-Dichloropropane | 0.0227 | 0.0010 | mg/Kg wet | 0.0200 | | 114 | 70-130 | 11.0 | 25 | |
| 2,2-Dichloropropane | 0.0214 | 0.0020 | mg/Kg wet | 0.0200 | | 107 | 70-130 | 7.16 | 25 | |
| 1,1-Dichloropropene | 0.0240 | 0.0020 | mg/Kg wet | 0.0200 | | 120 | 70-130 | 10.8 | 25 | |
| cis-1,3-Dichloropropene | 0.0219 | 0.0010 | mg/Kg wet | 0.0200 | | 109 | 70-130 | 12.3 | 25 | |
| trans-1,3-Dichloropropene | 0.0205 | 0.0010 | mg/Kg wet | 0.0200 | | 102 | 70-130 | 8.34 | 25 | |
| Diethyl Ether | 0.0208 | 0.020 | mg/Kg wet | 0.0200 | | 104 | 70-130 | 9.91 | 25 | |
| Diisopropyl Ether (DIPE) | 0.0221 | 0.0010 | mg/Kg wet | 0.0200 | | 111 | 70-130 | 10.1 | 25 | |
| 1,4-Dioxane | 0.229 | 0.10 | mg/Kg wet | 0.200 | | 114 | 40-160 | 22.2 | 50 | † ‡ |
| Ethylbenzene | 0.0250 | 0.0020 | mg/Kg wet | 0.0200 | | 125 | 70-130 | 8.59 | 25 | |
| Hexachlorobutadiene | 0.0241 | 0.0020 | mg/Kg wet | 0.0200 | | 120 | 70-160 | 9.38 | 25 | |
| 2-Hexanone (MBK) | 0.225 | 0.020 | mg/Kg wet | 0.200 | | 113 | 70-160 | 13.6 | 25 | † |
| Isopropylbenzene (Cumene) | 0.0259 | 0.0020 | mg/Kg wet | 0.0200 | | 129 | 70-130 | 10.2 | 25 | |
| p-Isopropyltoluene (p-Cymene) | 0.0254 | 0.0020 | mg/Kg wet | 0.0200 | | 127 | 70-130 | 7.19 | 25 | |
| Methyl tert-Butyl Ether (MTBE) | 0.0234 | 0.0040 | mg/Kg wet | 0.0200 | | 117 | 70-130 | 14.7 | 25 | |

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

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

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

Batch B142076 - SW-846 5035

LCS Dup (B142076-BSD1)

Prepared & Analyzed: 02/12/16

| | | | | | | | | | | |
|---------------------------------------------------|--------|--------|-----------|--------|--|------------|----------|------|----|--------|
| Methylene Chloride | 0.0198 | 0.020 | mg/Kg wet | 0.0200 | | 99.1 | 40-160 | 9.07 | 25 | † |
| 4-Methyl-2-pentanone (MIBK) | 0.222 | 0.020 | mg/Kg wet | 0.200 | | 111 | 70-160 | 13.7 | 25 | † |
| Naphthalene | 0.0169 | 0.0040 | mg/Kg wet | 0.0200 | | 84.6 | 40-130 | 12.3 | 25 | V-05 † |
| n-Propylbenzene | 0.0254 | 0.0020 | mg/Kg wet | 0.0200 | | 127 | 70-130 | 9.38 | 25 | |
| Styrene | 0.0248 | 0.0020 | mg/Kg wet | 0.0200 | | 124 | 70-130 | 7.02 | 25 | |
| 1,1,1,2-Tetrachloroethane | 0.0242 | 0.0020 | mg/Kg wet | 0.0200 | | 121 | 70-130 | 7.02 | 25 | |
| 1,1,2,2-Tetrachloroethane | 0.0243 | 0.0010 | mg/Kg wet | 0.0200 | | 122 | 70-130 | 14.0 | 25 | |
| Tetrachloroethylene | 0.0260 | 0.0020 | mg/Kg wet | 0.0200 | | 130 | 70-130 | 9.42 | 25 | |
| Tetrahydrofuran | 0.0222 | 0.010 | mg/Kg wet | 0.0200 | | 111 | 70-130 | 3.77 | 25 | |
| Toluene | 0.0237 | 0.0020 | mg/Kg wet | 0.0200 | | 119 | 70-130 | 11.0 | 25 | |
| 1,2,3-Trichlorobenzene | 0.0185 | 0.0020 | mg/Kg wet | 0.0200 | | 92.6 | 70-130 | 9.98 | 25 | |
| 1,2,4-Trichlorobenzene | 0.0184 | 0.0020 | mg/Kg wet | 0.0200 | | 92.2 | 70-130 | 7.07 | 25 | |
| 1,3,5-Trichlorobenzene | 0.0222 | 0.0020 | mg/Kg wet | 0.0200 | | 111 | 70-130 | 7.96 | 25 | |
| 1,1,1-Trichloroethane | 0.0228 | 0.0020 | mg/Kg wet | 0.0200 | | 114 | 70-130 | 8.33 | 25 | |
| 1,1,2-Trichloroethane | 0.0238 | 0.0020 | mg/Kg wet | 0.0200 | | 119 | 70-130 | 8.05 | 25 | |
| Trichloroethylene | 0.0240 | 0.0020 | mg/Kg wet | 0.0200 | | 120 | 70-130 | 10.8 | 25 | |
| Trichlorofluoromethane (Freon 11) | 0.0191 | 0.010 | mg/Kg wet | 0.0200 | | 95.7 | 70-130 | 5.03 | 25 | |
| 1,2,3-Trichloropropane | 0.0215 | 0.0020 | mg/Kg wet | 0.0200 | | 107 | 70-130 | 5.26 | 25 | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | 0.0201 | 0.010 | mg/Kg wet | 0.0200 | | 100 | 70-130 | 5.53 | 25 | |
| 1,2,4-Trimethylbenzene | 0.0254 | 0.0020 | mg/Kg wet | 0.0200 | | 127 | 70-130 | 9.57 | 25 | |
| 1,3,5-Trimethylbenzene | 0.0262 | 0.0020 | mg/Kg wet | 0.0200 | | 131 | * 70-130 | 8.75 | 25 | L-07 |
| Vinyl Chloride | 0.0167 | 0.010 | mg/Kg wet | 0.0200 | | 83.5 | 40-130 | 1.08 | 25 | † |
| m+p Xylene | 0.0493 | 0.0040 | mg/Kg wet | 0.0400 | | 123 | 70-130 | 9.47 | 25 | |
| o-Xylene | 0.0239 | 0.0020 | mg/Kg wet | 0.0200 | | 120 | 70-130 | 8.17 | 25 | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0481 | | mg/Kg wet | 0.0500 | | 96.3 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.0489 | | mg/Kg wet | 0.0500 | | 97.7 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.0500 | | mg/Kg wet | 0.0500 | | 100 | 70-130 | | | |

Batch B142078 - SW-846 5035

Blank (B142078-BLK1)

Prepared & Analyzed: 02/12/16

| | | | | | | | | | | |
|-------------------------------|----|--------|-----------|--|--|--|--|--|--|------------|
| Acetone | ND | 0.10 | mg/Kg wet | | | | | | | |
| Acrylonitrile | ND | 0.0060 | 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 | | | | | | | L-04, R-05 |
| 2-Butanone (MEK) | ND | 0.040 | mg/Kg wet | | | | | | | |
| tert-Butyl Alcohol (TBA) | ND | 0.040 | mg/Kg wet | | | | | | | |
| n-Butylbenzene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| sec-Butylbenzene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| tert-Butylbenzene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| tert-Butyl Ethyl Ether (TBEE) | ND | 0.0010 | mg/Kg wet | | | | | | | |
| Carbon Disulfide | ND | 0.0060 | mg/Kg wet | | | | | | | |
| Carbon Tetrachloride | ND | 0.0020 | mg/Kg wet | | | | | | | |
| Chlorobenzene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| Chlorodibromomethane | ND | 0.0010 | mg/Kg wet | | | | | | | |
| Chloroethane | ND | 0.020 | mg/Kg wet | | | | | | | R-05 |
| Chloroform | ND | 0.0040 | mg/Kg wet | | | | | | | |

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

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

Batch B142078 - SW-846 5035

Blank (B142078-BLK1)

Prepared & Analyzed: 02/12/16

| | | | | | | | | | | |
|---------------------------------------------------|----|--------|-----------|--|--|--|--|--|--|------|
| Chloromethane | ND | 0.010 | mg/Kg wet | | | | | | | |
| 2-Chlorotoluene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| 4-Chlorotoluene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 0.0020 | mg/Kg wet | | | | | | | |
| 1,2-Dibromoethane (EDB) | ND | 0.0010 | mg/Kg wet | | | | | | | |
| Dibromomethane | ND | 0.0020 | mg/Kg wet | | | | | | | |
| 1,2-Dichlorobenzene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| 1,3-Dichlorobenzene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| 1,4-Dichlorobenzene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| trans-1,4-Dichloro-2-butene | ND | 0.0040 | mg/Kg wet | | | | | | | |
| Dichlorodifluoromethane (Freon 12) | ND | 0.020 | mg/Kg wet | | | | | | | R-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 | 0.020 | mg/Kg wet | | | | | | | |
| Diisopropyl Ether (DIPE) | ND | 0.0010 | mg/Kg wet | | | | | | | |
| 1,4-Dioxane | ND | 0.10 | mg/Kg wet | | | | | | | |
| Ethylbenzene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| Hexachlorobutadiene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| 2-Hexanone (MBK) | ND | 0.020 | mg/Kg wet | | | | | | | |
| Isopropylbenzene (Cumene) | ND | 0.0020 | mg/Kg wet | | | | | | | |
| p-Isopropyltoluene (p-Cymene) | ND | 0.0020 | mg/Kg wet | | | | | | | |
| Methyl tert-Butyl Ether (MTBE) | ND | 0.0040 | mg/Kg wet | | | | | | | |
| Methylene Chloride | ND | 0.020 | mg/Kg wet | | | | | | | |
| 4-Methyl-2-pentanone (MIBK) | ND | 0.020 | mg/Kg wet | | | | | | | |
| Naphthalene | ND | 0.0040 | mg/Kg wet | | | | | | | V-05 |
| n-Propylbenzene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| Styrene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 0.0020 | mg/Kg wet | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 0.0010 | mg/Kg wet | | | | | | | |
| Tetrachloroethylene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| Tetrahydrofuran | ND | 0.010 | mg/Kg wet | | | | | | | |
| Toluene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 0.0020 | mg/Kg wet | | | | | | | V-05 |
| 1,3,5-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 | | | | | | | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | ND | 0.010 | mg/Kg wet | | | | | | | |
| 1,2,4-Trimethylbenzene | 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 B142078 - SW-846 5035 | | | | | | | | | | |
| Blank (B142078-BLK1) | | | | | | | | | | |
| Prepared & Analyzed: 02/12/16 | | | | | | | | | | |
| 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 | 0.0425 | | mg/Kg wet | 0.0500 | | 84.9 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.0489 | | mg/Kg wet | 0.0500 | | 97.8 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.0468 | | mg/Kg wet | 0.0500 | | 93.7 | 70-130 | | | |
| LCS (B142078-BS1) | | | | | | | | | | |
| Prepared & Analyzed: 02/12/16 | | | | | | | | | | |
| Acetone | 0.156 | 0.10 | mg/Kg wet | 0.200 | | 78.0 | 70-160 | | | † |
| Acrylonitrile | 0.0189 | 0.0060 | mg/Kg wet | 0.0200 | | 94.5 | 70-130 | | | |
| tert-Amyl Methyl Ether (TAME) | 0.0172 | 0.0010 | mg/Kg wet | 0.0200 | | 85.8 | 70-130 | | | |
| Benzene | 0.0191 | 0.0020 | mg/Kg wet | 0.0200 | | 95.5 | 70-130 | | | |
| Bromobenzene | 0.0198 | 0.0020 | mg/Kg wet | 0.0200 | | 98.9 | 70-130 | | | |
| Bromochloromethane | 0.0185 | 0.0020 | mg/Kg wet | 0.0200 | | 92.4 | 70-130 | | | |
| Bromodichloromethane | 0.0177 | 0.0020 | mg/Kg wet | 0.0200 | | 88.3 | 70-130 | | | |
| Bromoform | 0.0166 | 0.0020 | mg/Kg wet | 0.0200 | | 82.8 | 70-130 | | | |
| Bromomethane | 0.00766 | 0.010 | mg/Kg wet | 0.0200 | | 38.3 | 40-130 | * | | L-04, R-05 † |
| 2-Butanone (MEK) | 0.166 | 0.040 | mg/Kg wet | 0.200 | | 82.8 | 70-160 | | | † |
| tert-Butyl Alcohol (TBA) | 0.145 | 0.040 | mg/Kg wet | 0.200 | | 72.7 | 40-130 | | | † |
| n-Butylbenzene | 0.0203 | 0.0020 | mg/Kg wet | 0.0200 | | 102 | 70-130 | | | |
| sec-Butylbenzene | 0.0209 | 0.0020 | mg/Kg wet | 0.0200 | | 105 | 70-130 | | | |
| tert-Butylbenzene | 0.0200 | 0.0020 | mg/Kg wet | 0.0200 | | 100 | 70-160 | | | † |
| tert-Butyl Ethyl Ether (TBEE) | 0.0180 | 0.0010 | mg/Kg wet | 0.0200 | | 89.9 | 70-130 | | | |
| Carbon Disulfide | 0.0160 | 0.0060 | mg/Kg wet | 0.0200 | | 79.9 | 70-130 | | | |
| Carbon Tetrachloride | 0.0173 | 0.0020 | mg/Kg wet | 0.0200 | | 86.7 | 70-130 | | | |
| Chlorobenzene | 0.0201 | 0.0020 | mg/Kg wet | 0.0200 | | 100 | 70-130 | | | |
| Chlorodibromomethane | 0.0171 | 0.0010 | mg/Kg wet | 0.0200 | | 85.7 | 70-130 | | | |
| Chloroethane | 0.0162 | 0.020 | mg/Kg wet | 0.0200 | | 80.9 | 70-130 | | | R-05 |
| Chloroform | 0.0173 | 0.0040 | mg/Kg wet | 0.0200 | | 86.7 | 70-130 | | | |
| Chloromethane | 0.0133 | 0.010 | mg/Kg wet | 0.0200 | | 66.4 | 70-130 | * | | L-07 |
| 2-Chlorotoluene | 0.0197 | 0.0020 | mg/Kg wet | 0.0200 | | 98.5 | 70-130 | | | |
| 4-Chlorotoluene | 0.0191 | 0.0020 | mg/Kg wet | 0.0200 | | 95.7 | 70-130 | | | |
| 1,2-Dibromo-3-chloropropane (DBCP) | 0.0135 | 0.0020 | mg/Kg wet | 0.0200 | | 67.4 | 70-130 | * | | L-07 |
| 1,2-Dibromoethane (EDB) | 0.0193 | 0.0010 | mg/Kg wet | 0.0200 | | 96.3 | 70-130 | | | |
| Dibromomethane | 0.0192 | 0.0020 | mg/Kg wet | 0.0200 | | 95.9 | 70-130 | | | |
| 1,2-Dichlorobenzene | 0.0193 | 0.0020 | mg/Kg wet | 0.0200 | | 96.5 | 70-130 | | | |
| 1,3-Dichlorobenzene | 0.0191 | 0.0020 | mg/Kg wet | 0.0200 | | 95.5 | 70-130 | | | |
| 1,4-Dichlorobenzene | 0.0185 | 0.0020 | mg/Kg wet | 0.0200 | | 92.3 | 70-130 | | | |
| trans-1,4-Dichloro-2-butene | 0.0147 | 0.0040 | mg/Kg wet | 0.0200 | | 73.6 | 70-130 | | | |
| Dichlorodifluoromethane (Freon 12) | 0.0119 | 0.020 | mg/Kg wet | 0.0200 | | 59.7 | 40-160 | | | R-05 † |
| 1,1-Dichloroethane | 0.0183 | 0.0020 | mg/Kg wet | 0.0200 | | 91.3 | 70-130 | | | |
| 1,2-Dichloroethane | 0.0167 | 0.0020 | mg/Kg wet | 0.0200 | | 83.4 | 70-130 | | | |
| 1,1-Dichloroethylene | 0.0158 | 0.0040 | mg/Kg wet | 0.0200 | | 79.0 | 70-130 | | | |
| cis-1,2-Dichloroethylene | 0.0175 | 0.0020 | mg/Kg wet | 0.0200 | | 87.5 | 70-130 | | | |
| trans-1,2-Dichloroethylene | 0.0179 | 0.0020 | mg/Kg wet | 0.0200 | | 89.6 | 70-130 | | | |
| 1,2-Dichloropropane | 0.0192 | 0.0020 | mg/Kg wet | 0.0200 | | 95.8 | 70-130 | | | |
| 1,3-Dichloropropane | 0.0179 | 0.0010 | mg/Kg wet | 0.0200 | | 89.4 | 70-130 | | | |
| 2,2-Dichloropropane | 0.0158 | 0.0020 | mg/Kg wet | 0.0200 | | 78.8 | 70-130 | | | |
| 1,1-Dichloropropene | 0.0189 | 0.0020 | mg/Kg wet | 0.0200 | | 94.6 | 70-130 | | | |
| cis-1,3-Dichloropropene | 0.0161 | 0.0010 | mg/Kg wet | 0.0200 | | 80.6 | 70-130 | | | |
| trans-1,3-Dichloropropene | 0.0154 | 0.0010 | mg/Kg wet | 0.0200 | | 77.0 | 70-130 | | | |

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

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

Batch B142078 - SW-846 5035

LCS (B142078-BS1)

Prepared & Analyzed: 02/12/16

| | | | | | | | | | | |
|---------------------------------------------------|--------|--------|-----------|--------|--|------|--------|--|------|---|
| Diethyl Ether | 0.0179 | 0.020 | mg/Kg wet | 0.0200 | | 89.6 | 70-130 | | | |
| Diisopropyl Ether (DIPE) | 0.0173 | 0.0010 | mg/Kg wet | 0.0200 | | 86.4 | 70-130 | | | |
| 1,4-Dioxane | 0.172 | 0.10 | mg/Kg wet | 0.200 | | 86.0 | 40-160 | | | † |
| Ethylbenzene | 0.0207 | 0.0020 | mg/Kg wet | 0.0200 | | 103 | 70-130 | | | |
| Hexachlorobutadiene | 0.0189 | 0.0020 | mg/Kg wet | 0.0200 | | 94.3 | 70-160 | | | |
| 2-Hexanone (MBK) | 0.171 | 0.020 | mg/Kg wet | 0.200 | | 85.5 | 70-160 | | | † |
| Isopropylbenzene (Cumene) | 0.0211 | 0.0020 | mg/Kg wet | 0.0200 | | 106 | 70-130 | | | |
| p-Isopropyltoluene (p-Cymene) | 0.0210 | 0.0020 | mg/Kg wet | 0.0200 | | 105 | 70-130 | | | |
| Methyl tert-Butyl Ether (MTBE) | 0.0181 | 0.0040 | mg/Kg wet | 0.0200 | | 90.6 | 70-130 | | | |
| Methylene Chloride | 0.0185 | 0.020 | mg/Kg wet | 0.0200 | | 92.3 | 40-160 | | | † |
| 4-Methyl-2-pentanone (MIBK) | 0.172 | 0.020 | mg/Kg wet | 0.200 | | 85.8 | 70-160 | | | † |
| Naphthalene | 0.0140 | 0.0040 | mg/Kg wet | 0.0200 | | 69.9 | 40-130 | | V-05 | † |
| n-Propylbenzene | 0.0209 | 0.0020 | mg/Kg wet | 0.0200 | | 104 | 70-130 | | | |
| Styrene | 0.0209 | 0.0020 | mg/Kg wet | 0.0200 | | 104 | 70-130 | | | |
| 1,1,1,2-Tetrachloroethane | 0.0191 | 0.0020 | mg/Kg wet | 0.0200 | | 95.4 | 70-130 | | | |
| 1,1,2,2-Tetrachloroethane | 0.0197 | 0.0010 | mg/Kg wet | 0.0200 | | 98.6 | 70-130 | | | |
| Tetrachloroethylene | 0.0210 | 0.0020 | mg/Kg wet | 0.0200 | | 105 | 70-130 | | | |
| Tetrahydrofuran | 0.0171 | 0.010 | mg/Kg wet | 0.0200 | | 85.4 | 70-130 | | | |
| Toluene | 0.0183 | 0.0020 | mg/Kg wet | 0.0200 | | 91.5 | 70-130 | | | |
| 1,2,3-Trichlorobenzene | 0.0148 | 0.0020 | mg/Kg wet | 0.0200 | | 74.0 | 70-130 | | | |
| 1,2,4-Trichlorobenzene | 0.0147 | 0.0020 | mg/Kg wet | 0.0200 | | 73.5 | 70-130 | | V-05 | |
| 1,3,5-Trichlorobenzene | 0.0178 | 0.0020 | mg/Kg wet | 0.0200 | | 88.8 | 70-130 | | | |
| 1,1,1-Trichloroethane | 0.0172 | 0.0020 | mg/Kg wet | 0.0200 | | 86.1 | 70-130 | | | |
| 1,1,2-Trichloroethane | 0.0193 | 0.0020 | mg/Kg wet | 0.0200 | | 96.7 | 70-130 | | | |
| Trichloroethylene | 0.0190 | 0.0020 | mg/Kg wet | 0.0200 | | 95.1 | 70-130 | | | |
| Trichlorofluoromethane (Freon 11) | 0.0160 | 0.010 | mg/Kg wet | 0.0200 | | 80.2 | 70-130 | | | |
| 1,2,3-Trichloropropane | 0.0207 | 0.0020 | mg/Kg wet | 0.0200 | | 104 | 70-130 | | | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | 0.0172 | 0.010 | mg/Kg wet | 0.0200 | | 86.1 | 70-130 | | | |
| 1,2,4-Trimethylbenzene | 0.0205 | 0.0020 | mg/Kg wet | 0.0200 | | 102 | 70-130 | | | |
| 1,3,5-Trimethylbenzene | 0.0215 | 0.0020 | mg/Kg wet | 0.0200 | | 107 | 70-130 | | | |
| Vinyl Chloride | 0.0151 | 0.010 | mg/Kg wet | 0.0200 | | 75.7 | 40-130 | | | † |
| m+p Xylene | 0.0406 | 0.0040 | mg/Kg wet | 0.0400 | | 101 | 70-130 | | | |
| o-Xylene | 0.0197 | 0.0020 | mg/Kg wet | 0.0200 | | 98.6 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0430 | | mg/Kg wet | 0.0500 | | 86.0 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.0487 | | mg/Kg wet | 0.0500 | | 97.3 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.0498 | | mg/Kg wet | 0.0500 | | 99.5 | 70-130 | | | |

LCS Dup (B142078-BSD1)

Prepared & Analyzed: 02/12/16

| | | | | | | | | | | |
|-------------------------------|---------|--------|-----------|--------|--|---------------|--------|---------------|----|--------------|
| Acetone | 0.160 | 0.10 | mg/Kg wet | 0.200 | | 80.1 | 70-160 | 2.73 | 25 | † |
| Acrylonitrile | 0.0178 | 0.0060 | mg/Kg wet | 0.0200 | | 89.2 | 70-130 | 5.77 | 25 | |
| tert-Amyl Methyl Ether (TAME) | 0.0159 | 0.0010 | mg/Kg wet | 0.0200 | | 79.7 | 70-130 | 7.37 | 25 | |
| Benzene | 0.0183 | 0.0020 | mg/Kg wet | 0.0200 | | 91.4 | 70-130 | 4.39 | 25 | |
| Bromobenzene | 0.0193 | 0.0020 | mg/Kg wet | 0.0200 | | 96.3 | 70-130 | 2.66 | 25 | |
| Bromochloromethane | 0.0177 | 0.0020 | mg/Kg wet | 0.0200 | | 88.6 | 70-130 | 4.20 | 25 | |
| Bromodichloromethane | 0.0155 | 0.0020 | mg/Kg wet | 0.0200 | | 77.3 | 70-130 | 13.3 | 25 | |
| Bromoform | 0.0143 | 0.0020 | mg/Kg wet | 0.0200 | | 71.5 | 70-130 | 14.6 | 25 | |
| Bromomethane | 0.00400 | 0.010 | mg/Kg wet | 0.0200 | | 20.0 * | 40-130 | 62.8 * | 25 | L-04, R-05 † |
| 2-Butanone (MEK) | 0.160 | 0.040 | mg/Kg wet | 0.200 | | 80.0 | 70-160 | 3.49 | 25 | † |
| tert-Butyl Alcohol (TBA) | 0.122 | 0.040 | mg/Kg wet | 0.200 | | 61.2 | 40-130 | 17.2 | 25 | † |
| n-Butylbenzene | 0.0203 | 0.0020 | mg/Kg wet | 0.0200 | | 102 | 70-130 | 0.197 | 25 | |
| sec-Butylbenzene | 0.0204 | 0.0020 | mg/Kg wet | 0.0200 | | 102 | 70-130 | 2.71 | 25 | |
| tert-Butylbenzene | 0.0195 | 0.0020 | mg/Kg wet | 0.0200 | | 97.6 | 70-160 | 2.53 | 25 | † |

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|------------------------------------|---------|-----------------|-----------|-------------|---------------|---------------|-------------|---------------|-----------|-------------|
| Batch B142078 - SW-846 5035 | | | | | | | | | | |
| LCS Dup (B142078-BSD1) | | | | | | | | | | |
| Prepared & Analyzed: 02/12/16 | | | | | | | | | | |
| tert-Butyl Ethyl Ether (TBEE) | 0.0167 | 0.0010 | mg/Kg wet | 0.0200 | | 83.5 | 70-130 | 7.38 | 25 | |
| Carbon Disulfide | 0.0149 | 0.0060 | mg/Kg wet | 0.0200 | | 74.4 | 70-130 | 7.13 | 25 | |
| Carbon Tetrachloride | 0.0152 | 0.0020 | mg/Kg wet | 0.0200 | | 75.8 | 70-130 | 13.4 | 25 | |
| Chlorobenzene | 0.0193 | 0.0020 | mg/Kg wet | 0.0200 | | 96.7 | 70-130 | 3.75 | 25 | |
| Chlorodibromomethane | 0.0149 | 0.0010 | mg/Kg wet | 0.0200 | | 74.5 | 70-130 | 14.0 | 25 | |
| Chloroethane | 0.0117 | 0.020 | mg/Kg wet | 0.0200 | | 58.7 * | 70-130 | 31.8 * | 25 | L-07A, R-05 |
| Chloroform | 0.0167 | 0.0040 | mg/Kg wet | 0.0200 | | 83.7 | 70-130 | 3.52 | 25 | |
| Chloromethane | 0.0152 | 0.010 | mg/Kg wet | 0.0200 | | 76.1 | 70-130 | 13.6 | 25 | |
| 2-Chlorotoluene | 0.0195 | 0.0020 | mg/Kg wet | 0.0200 | | 97.3 | 70-130 | 1.23 | 25 | |
| 4-Chlorotoluene | 0.0189 | 0.0020 | mg/Kg wet | 0.0200 | | 94.4 | 70-130 | 1.37 | 25 | |
| 1,2-Dibromo-3-chloropropane (DBCP) | 0.0141 | 0.0020 | mg/Kg wet | 0.0200 | | 70.4 | 70-130 | 4.35 | 25 | |
| 1,2-Dibromoethane (EDB) | 0.0183 | 0.0010 | mg/Kg wet | 0.0200 | | 91.5 | 70-130 | 5.11 | 25 | |
| Dibromomethane | 0.0186 | 0.0020 | mg/Kg wet | 0.0200 | | 93.0 | 70-130 | 3.07 | 25 | |
| 1,2-Dichlorobenzene | 0.0190 | 0.0020 | mg/Kg wet | 0.0200 | | 94.9 | 70-130 | 1.67 | 25 | |
| 1,3-Dichlorobenzene | 0.0186 | 0.0020 | mg/Kg wet | 0.0200 | | 93.1 | 70-130 | 2.55 | 25 | |
| 1,4-Dichlorobenzene | 0.0184 | 0.0020 | mg/Kg wet | 0.0200 | | 91.9 | 70-130 | 0.434 | 25 | |
| trans-1,4-Dichloro-2-butene | 0.0146 | 0.0040 | mg/Kg wet | 0.0200 | | 73.2 | 70-130 | 0.545 | 25 | |
| Dichlorodifluoromethane (Freon 12) | 0.00834 | 0.020 | mg/Kg wet | 0.0200 | | 41.7 | 40-160 | 35.5 * | 25 | R-05 † |
| 1,1-Dichloroethane | 0.0174 | 0.0020 | mg/Kg wet | 0.0200 | | 87.0 | 70-130 | 4.82 | 25 | |
| 1,2-Dichloroethane | 0.0165 | 0.0020 | mg/Kg wet | 0.0200 | | 82.5 | 70-130 | 1.08 | 25 | |
| 1,1-Dichloroethylene | 0.0153 | 0.0040 | mg/Kg wet | 0.0200 | | 76.5 | 70-130 | 3.22 | 25 | |
| cis-1,2-Dichloroethylene | 0.0161 | 0.0020 | mg/Kg wet | 0.0200 | | 80.6 | 70-130 | 8.21 | 25 | |
| trans-1,2-Dichloroethylene | 0.0172 | 0.0020 | mg/Kg wet | 0.0200 | | 86.0 | 70-130 | 4.10 | 25 | |
| 1,2-Dichloropropane | 0.0178 | 0.0020 | mg/Kg wet | 0.0200 | | 89.2 | 70-130 | 7.14 | 25 | |
| 1,3-Dichloropropane | 0.0175 | 0.0010 | mg/Kg wet | 0.0200 | | 87.7 | 70-130 | 1.92 | 25 | |
| 2,2-Dichloropropane | 0.0135 | 0.0020 | mg/Kg wet | 0.0200 | | 67.7 * | 70-130 | 15.2 | 25 | L-07 |
| 1,1-Dichloropropene | 0.0181 | 0.0020 | mg/Kg wet | 0.0200 | | 90.4 | 70-130 | 4.54 | 25 | |
| cis-1,3-Dichloropropene | 0.0141 | 0.0010 | mg/Kg wet | 0.0200 | | 70.4 | 70-130 | 13.5 | 25 | |
| trans-1,3-Dichloropropene | 0.0136 | 0.0010 | mg/Kg wet | 0.0200 | | 68.2 * | 70-130 | 12.1 | 25 | L-07 |
| Diethyl Ether | 0.0170 | 0.020 | mg/Kg wet | 0.0200 | | 85.0 | 70-130 | 5.27 | 25 | |
| Diisopropyl Ether (DIPE) | 0.0159 | 0.0010 | mg/Kg wet | 0.0200 | | 79.6 | 70-130 | 8.19 | 25 | |
| 1,4-Dioxane | 0.199 | 0.10 | mg/Kg wet | 0.200 | | 99.6 | 40-160 | 14.7 | 50 | † ‡ |
| Ethylbenzene | 0.0203 | 0.0020 | mg/Kg wet | 0.0200 | | 101 | 70-130 | 1.86 | 25 | |
| Hexachlorobutadiene | 0.0187 | 0.0020 | mg/Kg wet | 0.0200 | | 93.4 | 70-160 | 0.959 | 25 | |
| 2-Hexanone (MBK) | 0.169 | 0.020 | mg/Kg wet | 0.200 | | 84.7 | 70-160 | 0.928 | 25 | † |
| Isopropylbenzene (Cumene) | 0.0207 | 0.0020 | mg/Kg wet | 0.0200 | | 103 | 70-130 | 2.01 | 25 | |
| p-Isopropyltoluene (p-Cymene) | 0.0205 | 0.0020 | mg/Kg wet | 0.0200 | | 102 | 70-130 | 2.41 | 25 | |
| Methyl tert-Butyl Ether (MTBE) | 0.0171 | 0.0040 | mg/Kg wet | 0.0200 | | 85.6 | 70-130 | 5.68 | 25 | |
| Methylene Chloride | 0.0191 | 0.020 | mg/Kg wet | 0.0200 | | 95.3 | 40-160 | 3.20 | 25 | † |
| 4-Methyl-2-pentanone (MIBK) | 0.163 | 0.020 | mg/Kg wet | 0.200 | | 81.3 | 70-160 | 5.42 | 25 | † |
| Naphthalene | 0.0150 | 0.0040 | mg/Kg wet | 0.0200 | | 74.8 | 40-130 | 6.77 | 25 | V-05 † |
| n-Propylbenzene | 0.0203 | 0.0020 | mg/Kg wet | 0.0200 | | 102 | 70-130 | 2.81 | 25 | |
| Styrene | 0.0203 | 0.0020 | mg/Kg wet | 0.0200 | | 102 | 70-130 | 2.72 | 25 | |
| 1,1,1,2-Tetrachloroethane | 0.0175 | 0.0020 | mg/Kg wet | 0.0200 | | 87.5 | 70-130 | 8.64 | 25 | |
| 1,1,2,2-Tetrachloroethane | 0.0195 | 0.0010 | mg/Kg wet | 0.0200 | | 97.7 | 70-130 | 0.917 | 25 | |
| Tetrachloroethylene | 0.0204 | 0.0020 | mg/Kg wet | 0.0200 | | 102 | 70-130 | 2.71 | 25 | |
| Tetrahydrofuran | 0.0184 | 0.010 | mg/Kg wet | 0.0200 | | 91.8 | 70-130 | 7.22 | 25 | |
| Toluene | 0.0179 | 0.0020 | mg/Kg wet | 0.0200 | | 89.4 | 70-130 | 2.32 | 25 | |
| 1,2,3-Trichlorobenzene | 0.0151 | 0.0020 | mg/Kg wet | 0.0200 | | 75.5 | 70-130 | 2.01 | 25 | |
| 1,2,4-Trichlorobenzene | 0.0152 | 0.0020 | mg/Kg wet | 0.0200 | | 76.2 | 70-130 | 3.61 | 25 | V-05 |
| 1,3,5-Trichlorobenzene | 0.0181 | 0.0020 | mg/Kg wet | 0.0200 | | 90.7 | 70-130 | 2.12 | 25 | |
| 1,1,1-Trichloroethane | 0.0157 | 0.0020 | mg/Kg wet | 0.0200 | | 78.7 | 70-130 | 8.98 | 25 | |

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

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------------------------------------------------|--------|-----------------|-----------|-------------|-------------------------------|------|-------------|-------|-----------|-------|
| Batch B142078 - SW-846 5035 | | | | | | | | | | |
| LCS Dup (B142078-BSD1) | | | | | | | | | | |
| | | | | | Prepared & Analyzed: 02/12/16 | | | | | |
| 1,1,2-Trichloroethane | 0.0188 | 0.0020 | mg/Kg wet | 0.0200 | | 93.9 | 70-130 | 2.94 | 25 | |
| Trichloroethylene | 0.0181 | 0.0020 | mg/Kg wet | 0.0200 | | 90.7 | 70-130 | 4.74 | 25 | |
| Trichlorofluoromethane (Freon 11) | 0.0147 | 0.010 | mg/Kg wet | 0.0200 | | 73.6 | 70-130 | 8.58 | 25 | |
| 1,2,3-Trichloropropane | 0.0181 | 0.0020 | mg/Kg wet | 0.0200 | | 90.7 | 70-130 | 13.3 | 25 | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | 0.0171 | 0.010 | mg/Kg wet | 0.0200 | | 85.5 | 70-130 | 0.699 | 25 | |
| 1,2,4-Trimethylbenzene | 0.0200 | 0.0020 | mg/Kg wet | 0.0200 | | 100 | 70-130 | 2.07 | 25 | |
| 1,3,5-Trimethylbenzene | 0.0212 | 0.0020 | mg/Kg wet | 0.0200 | | 106 | 70-130 | 1.22 | 25 | |
| Vinyl Chloride | 0.0154 | 0.010 | mg/Kg wet | 0.0200 | | 77.1 | 40-130 | 1.83 | 25 | † |
| m+p Xylene | 0.0395 | 0.0040 | mg/Kg wet | 0.0400 | | 98.8 | 70-130 | 2.65 | 25 | |
| o-Xylene | 0.0192 | 0.0020 | mg/Kg wet | 0.0200 | | 96.2 | 70-130 | 2.46 | 25 | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0422 | | mg/Kg wet | 0.0500 | | 84.4 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.0493 | | mg/Kg wet | 0.0500 | | 98.6 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.0493 | | mg/Kg wet | 0.0500 | | 98.6 | 70-130 | | | |

QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------------------------------------|--------|-----------------|-----------|-------------|---------------|------|-------------|-------|-----------|-------|
| Batch B142028 - SW-846 3540C | | | | | | | | | | |
| Blank (B142028-BLK1) | | | | | | | | | | |
| Prepared: 02/12/16 Analyzed: 02/16/16 | | | | | | | | | | |
| 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 | 0.183 | | mg/Kg wet | 0.200 | | 91.5 | 30-150 | | | |
| Surrogate: Decachlorobiphenyl [2C] | 0.183 | | mg/Kg wet | 0.200 | | 91.3 | 30-150 | | | |
| Surrogate: Tetrachloro-m-xylene | 0.166 | | mg/Kg wet | 0.200 | | 83.1 | 30-150 | | | |
| Surrogate: Tetrachloro-m-xylene [2C] | 0.175 | | mg/Kg wet | 0.200 | | 87.7 | 30-150 | | | |
| LCS (B142028-BS1) | | | | | | | | | | |
| Prepared: 02/12/16 Analyzed: 02/16/16 | | | | | | | | | | |
| Aroclor-1016 | 0.18 | 0.020 | mg/Kg wet | 0.200 | | 87.8 | 40-140 | | | |
| Aroclor-1016 [2C] | 0.16 | 0.020 | mg/Kg wet | 0.200 | | 81.0 | 40-140 | | | |
| Aroclor-1260 | 0.18 | 0.020 | mg/Kg wet | 0.200 | | 89.5 | 40-140 | | | |
| Aroclor-1260 [2C] | 0.17 | 0.020 | mg/Kg wet | 0.200 | | 87.2 | 40-140 | | | |
| Surrogate: Decachlorobiphenyl | 0.180 | | mg/Kg wet | 0.200 | | 90.1 | 30-150 | | | |
| Surrogate: Decachlorobiphenyl [2C] | 0.182 | | mg/Kg wet | 0.200 | | 91.0 | 30-150 | | | |
| Surrogate: Tetrachloro-m-xylene | 0.159 | | mg/Kg wet | 0.200 | | 79.5 | 30-150 | | | |
| Surrogate: Tetrachloro-m-xylene [2C] | 0.170 | | mg/Kg wet | 0.200 | | 84.8 | 30-150 | | | |
| LCS Dup (B142028-BSD1) | | | | | | | | | | |
| Prepared: 02/12/16 Analyzed: 02/16/16 | | | | | | | | | | |
| Aroclor-1016 | 0.18 | 0.020 | mg/Kg wet | 0.200 | | 90.6 | 40-140 | 3.10 | 30 | |
| Aroclor-1016 [2C] | 0.17 | 0.020 | mg/Kg wet | 0.200 | | 85.1 | 40-140 | 5.02 | 30 | |
| Aroclor-1260 | 0.18 | 0.020 | mg/Kg wet | 0.200 | | 89.9 | 40-140 | 0.404 | 30 | |
| Aroclor-1260 [2C] | 0.18 | 0.020 | mg/Kg wet | 0.200 | | 88.8 | 40-140 | 1.83 | 30 | |
| Surrogate: Decachlorobiphenyl | 0.182 | | mg/Kg wet | 0.200 | | 90.8 | 30-150 | | | |
| Surrogate: Decachlorobiphenyl [2C] | 0.181 | | mg/Kg wet | 0.200 | | 90.4 | 30-150 | | | |
| Surrogate: Tetrachloro-m-xylene | 0.159 | | mg/Kg wet | 0.200 | | 79.4 | 30-150 | | | |
| Surrogate: Tetrachloro-m-xylene [2C] | 0.168 | | mg/Kg wet | 0.200 | | 83.9 | 30-150 | | | |

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

QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|----------------------------------------|---------------------------|-----------------|-----------|---------------------------------------|---------------|------------|-------------|------|-----------|-------|
| Batch B142028 - SW-846 3540C | | | | | | | | | | |
| Matrix Spike (B142028-MS1) | Source: 16B0521-02 | | | Prepared: 02/12/16 Analyzed: 02/16/16 | | | | | | |
| Aroclor-1016 | 1.0 | 0.11 | mg/Kg dry | 0.230 | ND | 436 | * 40-140 | | | MS-21 |
| Aroclor-1016 [2C] | 1.5 | 0.11 | mg/Kg dry | 0.230 | ND | 658 | * 40-140 | | | MS-21 |
| Aroclor-1260 | 0.75 | 0.11 | mg/Kg dry | 0.230 | ND | 325 | * 40-140 | | | MS-21 |
| Aroclor-1260 [2C] | 0.79 | 0.11 | mg/Kg dry | 0.230 | ND | 343 | * 40-140 | | | MS-21 |
| Surrogate: Decachlorobiphenyl | 0.169 | | mg/Kg dry | 0.230 | | 73.5 | 30-150 | | | |
| Surrogate: Decachlorobiphenyl [2C] | 0.194 | | mg/Kg dry | 0.230 | | 84.3 | 30-150 | | | |
| Surrogate: Tetrachloro-m-xylene | 0.171 | | mg/Kg dry | 0.230 | | 74.5 | 30-150 | | | |
| Surrogate: Tetrachloro-m-xylene [2C] | 0.175 | | mg/Kg dry | 0.230 | | 76.1 | 30-150 | | | |
| Matrix Spike Dup (B142028-MSD1) | Source: 16B0521-02 | | | Prepared: 02/12/16 Analyzed: 02/16/16 | | | | | | |
| Aroclor-1016 | 1.0 | 0.11 | mg/Kg dry | 0.230 | ND | 454 | * 40-140 | 3.98 | 50 | MS-21 |
| Aroclor-1016 [2C] | 1.7 | 0.11 | mg/Kg dry | 0.230 | ND | 731 | * 40-140 | 10.5 | 50 | MS-21 |
| Aroclor-1260 | 0.83 | 0.11 | mg/Kg dry | 0.230 | ND | 360 | * 40-140 | 10.3 | 50 | MS-21 |
| Aroclor-1260 [2C] | 0.87 | 0.11 | mg/Kg dry | 0.230 | ND | 381 | * 40-140 | 10.4 | 50 | MS-21 |
| Surrogate: Decachlorobiphenyl | 0.174 | | mg/Kg dry | 0.230 | | 75.8 | 30-150 | | | |
| Surrogate: Decachlorobiphenyl [2C] | 0.204 | | mg/Kg dry | 0.230 | | 89.1 | 30-150 | | | |
| Surrogate: Tetrachloro-m-xylene | 0.179 | | mg/Kg dry | 0.230 | | 77.8 | 30-150 | | | |
| Surrogate: Tetrachloro-m-xylene [2C] | 0.183 | | mg/Kg dry | 0.230 | | 79.9 | 30-150 | | | |

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

QUALITY CONTROL

Petroleum Hydrocarbons Analyses - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|------------------------------------|--------|-----------------|-----------|-------------|---------------------------------------|------|-------------|------|-----------|-------|
| Batch B142014 - SW-846 3546 | | | | | | | | | | |
| Blank (B142014-BLK1) | | | | | | | | | | |
| | | | | | Prepared: 02/12/16 Analyzed: 02/15/16 | | | | | |
| TPH (C9-C36) | ND | 8.3 | mg/Kg wet | | | | | | | |
| Surrogate: o-Terphenyl | 3.00 | | mg/Kg wet | 3.33 | | 90.0 | 40-140 | | | |
| LCS (B142014-BS1) | | | | | | | | | | |
| | | | | | Prepared: 02/12/16 Analyzed: 02/15/16 | | | | | |
| TPH (C9-C36) | 27.8 | 8.3 | mg/Kg wet | 33.3 | | 83.3 | 40-140 | | | |
| Surrogate: o-Terphenyl | 3.18 | | mg/Kg wet | 3.33 | | 95.5 | 40-140 | | | |
| LCS Dup (B142014-BSD1) | | | | | | | | | | |
| | | | | | Prepared: 02/12/16 Analyzed: 02/15/16 | | | | | |
| TPH (C9-C36) | 27.4 | 8.3 | mg/Kg wet | 33.3 | | 82.3 | 40-140 | 1.17 | 30 | |
| Surrogate: o-Terphenyl | 3.02 | | mg/Kg wet | 3.33 | | 90.6 | 40-140 | | | |

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

QUALITY CONTROL

Metals Analyses (Total) - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------------------------------------|--------|-----------------|-----------|-------------|---------------|------|-------------|------|-----------|-------|
| Batch B141991 - SW-846 3050B | | | | | | | | | | |
| Blank (B141991-BLK1) | | | | | | | | | | |
| Prepared: 02/11/16 Analyzed: 02/15/16 | | | | | | | | | | |
| 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 (B141991-BS1) | | | | | | | | | | |
| Prepared: 02/11/16 Analyzed: 02/15/16 | | | | | | | | | | |
| Arsenic | 93.2 | 4.9 | mg/Kg wet | 98.5 | | 94.7 | 77.8-122.1 | | | |
| Barium | 305 | 4.9 | mg/Kg wet | 308 | | 99.2 | 82-117.4 | | | |
| Cadmium | 143 | 0.49 | mg/Kg wet | 146 | | 97.7 | 81.9-118.2 | | | |
| Chromium | 179 | 0.97 | mg/Kg wet | 182 | | 98.2 | 78.7-120.6 | | | |
| Lead | 116 | 1.5 | mg/Kg wet | 130 | | 89.6 | 82.4-117.8 | | | |
| Selenium | 141 | 9.7 | mg/Kg wet | 154 | | 91.8 | 77.1-122.3 | | | |
| Silver | 37.1 | 0.97 | mg/Kg wet | 40.9 | | 90.7 | 74.3-125.4 | | | |
| LCS Dup (B141991-BSD1) | | | | | | | | | | |
| Prepared: 02/11/16 Analyzed: 02/15/16 | | | | | | | | | | |
| Arsenic | 88.4 | 5.0 | mg/Kg wet | 98.5 | | 89.7 | 77.8-122.1 | 5.36 | 30 | |
| Barium | 291 | 5.0 | mg/Kg wet | 308 | | 94.4 | 82-117.4 | 4.98 | 30 | |
| Cadmium | 133 | 0.50 | mg/Kg wet | 146 | | 91.2 | 81.9-118.2 | 6.90 | 30 | |
| Chromium | 169 | 0.99 | mg/Kg wet | 182 | | 92.9 | 78.7-120.6 | 5.59 | 30 | |
| Lead | 112 | 1.5 | mg/Kg wet | 130 | | 86.2 | 82.4-117.8 | 3.86 | 30 | |
| Selenium | 133 | 9.9 | mg/Kg wet | 154 | | 86.1 | 77.1-122.3 | 6.43 | 30 | |
| Silver | 36.0 | 0.99 | mg/Kg wet | 40.9 | | 88.0 | 74.3-125.4 | 3.09 | 30 | |
| Duplicate (B141991-DUP1) | | | | | | | | | | |
| Source: 16B0521-05 | | | | | | | | | | |
| Prepared: 02/11/16 Analyzed: 02/15/16 | | | | | | | | | | |
| Arsenic | ND | 2.5 | mg/Kg dry | | ND | | | NC | 35 | |
| Barium | 13.1 | 2.5 | mg/Kg dry | | 10.9 | | | 18.7 | 35 | |
| Cadmium | 0.536 | 0.25 | mg/Kg dry | | 0.443 | | | 19.1 | 35 | |
| Chromium | 3.22 | 0.51 | mg/Kg dry | | 2.29 | | | 33.8 | 35 | |
| Lead | 10.9 | 0.76 | mg/Kg dry | | 8.93 | | | 19.5 | 35 | |
| Selenium | ND | 5.1 | mg/Kg dry | | ND | | | NC | 35 | |
| Silver | ND | 0.51 | mg/Kg dry | | ND | | | NC | 35 | |
| MRL Check (B141991-MRL1) | | | | | | | | | | |
| Prepared: 02/11/16 Analyzed: 02/12/16 | | | | | | | | | | |
| Lead | 0.690 | 0.72 | mg/Kg wet | 0.715 | | 96.5 | 80-120 | | | |
| Matrix Spike (B141991-MS1) | | | | | | | | | | |
| Source: 16B0521-05 | | | | | | | | | | |
| Prepared: 02/11/16 Analyzed: 02/15/16 | | | | | | | | | | |
| Arsenic | 23.5 | 2.5 | mg/Kg dry | 25.4 | 1.65 | 86.0 | 75-125 | | | |
| Barium | 35.6 | 2.5 | mg/Kg dry | 25.4 | 10.9 | 97.4 | 75-125 | | | |
| Cadmium | 22.9 | 0.25 | mg/Kg dry | 25.4 | 0.443 | 88.5 | 75-125 | | | |
| Chromium | 25.8 | 0.51 | mg/Kg dry | 25.4 | 2.29 | 92.8 | 75-125 | | | |
| Lead | 31.4 | 0.76 | mg/Kg dry | 25.4 | 8.93 | 88.5 | 75-125 | | | |
| Selenium | 20.0 | 5.1 | mg/Kg dry | 25.4 | ND | 78.9 | 75-125 | | | |
| Silver | 21.4 | 0.51 | mg/Kg dry | 25.4 | ND | 84.2 | 75-125 | | | |

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

QUALITY CONTROL

Metals Analyses (Total) - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|------------------------------------|--------|-----------------|-----------|-------------|----------------------------------------------------------|------|-------------|------|-----------|-------|
| Batch B142087 - SW-846 7471 | | | | | | | | | | |
| Blank (B142087-BLK1) | | | | | Prepared: 02/12/16 Analyzed: 02/15/16 | | | | | |
| Mercury | ND | 0.025 | mg/Kg wet | | | | | | | |
| LCS (B142087-BS1) | | | | | Prepared: 02/12/16 Analyzed: 02/16/16 | | | | | |
| Mercury | 7.12 | 0.78 | mg/Kg wet | 7.10 | | 100 | 73.7-126.3 | | | |
| LCS Dup (B142087-BSD1) | | | | | Prepared: 02/12/16 Analyzed: 02/16/16 | | | | | |
| Mercury | 7.94 | 0.78 | mg/Kg wet | 7.10 | | 112 | 73.7-126.3 | 10.9 | 30 | |
| Duplicate (B142087-DUP1) | | | | | Source: 16B0521-01 Prepared: 02/12/16 Analyzed: 02/16/16 | | | | | |
| Mercury | 1.81 | 0.38 | mg/Kg dry | | 1.37 | | | 27.5 | 35 | |
| Matrix Spike (B142087-MS1) | | | | | Source: 16B0521-01 Prepared: 02/12/16 Analyzed: 02/16/16 | | | | | |
| Mercury | 1.83 | 0.19 | mg/Kg dry | 0.249 | 1.37 | 185 | * 75-125 | | | MS-11 |

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

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 B142113 - % Solids | | | | | | | | | | |
| Duplicate (B142113-DUP3) | Source: 16B0521-01 | | | Prepared: 02/13/16 Analyzed: 02/15/16 | | | | | | |
| % Solids | 66.5 | | % Wt | | 63.9 | | | 3.99 | 20 | |
| Duplicate (B142113-DUP4) | Source: 16B0521-02 | | | Prepared: 02/13/16 Analyzed: 02/15/16 | | | | | | |
| % Solids | 84.3 | | % Wt | | 87.1 | | | 3.27 | 20 | |

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

SB-02, SS-01 (0-2')

SW-846 8082A

Lab Sample ID: 16B0521-02 Date(s) Analyzed: 02/16/2016 02/16/2016

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

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

| ANALYTE | COL | RT | RT WINDOW | | CONCENTRATION | %D |
|--------------|-----|------|-----------|------|---------------|------|
| | | | FROM | TO | | |
| Aroclor-1248 | 1 | 0.00 | -0.03 | 0.03 | 1.5 | |
| | 2 | 0.00 | -0.03 | 0.03 | 1.7 | 13.8 |
| Aroclor-1254 | 1 | 0.00 | -0.03 | 0.03 | 2.5 | |
| | 2 | 0.00 | -0.03 | 0.03 | 2.8 | 12.9 |

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

SB-02, SS-03 (4-6')

Lab Sample ID: 16B0521-03 Date(s) Analyzed: 02/16/2016 02/16/2016

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

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

| ANALYTE | COL | RT | RT WINDOW | | CONCENTRATION | %D |
|--------------|-----|------|-----------|------|---------------|-----|
| | | | FROM | TO | | |
| Aroclor-1248 | 1 | 0.00 | -0.03 | 0.03 | 0.29 | |
| | 2 | 0.00 | -0.03 | 0.03 | 0.31 | 5.6 |
| Aroclor-1254 | 1 | 0.00 | -0.03 | 0.03 | 0.18 | |
| | 2 | 0.00 | -0.03 | 0.03 | 0.19 | 3.8 |

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

SB-07, SS-02 (2-4')

Lab Sample ID: 16B0521-08 Date(s) Analyzed: 02/16/2016 02/16/2016

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

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

| ANALYTE | COL | RT | RT WINDOW | | CONCENTRATION | %D |
|--------------|-----|------|-----------|------|---------------|------|
| | | | FROM | TO | | |
| Aroclor-1248 | 1 | 0.00 | -0.03 | 0.03 | 0.19 | |
| | 2 | 0.00 | -0.03 | 0.03 | 0.24 | 23.8 |
| Aroclor-1254 | 1 | 0.00 | -0.03 | 0.03 | 0.16 | |
| | 2 | 0.00 | -0.03 | 0.03 | 0.20 | 20.4 |

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

SB-09, SS-01 (0-2')

Lab Sample ID: 16B0521-10 Date(s) Analyzed: 02/16/2016 02/16/2016

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

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

| ANALYTE | COL | RT | RT WINDOW | | CONCENTRATION | %D |
|--------------|-----|------|-----------|------|---------------|------|
| | | | FROM | TO | | |
| Aroclor-1248 | 1 | 0.00 | -0.03 | 0.03 | 0.41 | |
| | 2 | 0.00 | -0.03 | 0.03 | 0.55 | 30.1 |
| Aroclor-1254 | 1 | 0.00 | -0.03 | 0.03 | 0.54 | |
| | 2 | 0.00 | -0.03 | 0.03 | 0.68 | 23.1 |
| Aroclor-1260 | 1 | 0.00 | -0.03 | 0.03 | 0.25 | |
| | 2 | 0.00 | -0.03 | 0.03 | 0.27 | 9.3 |

FLAG/QUALIFIER SUMMARY

| | |
|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| * | QC result is outside of established limits. |
| † | Wide recovery limits established for difficult compound. |
| ‡ | Wide RPD limits established for difficult compound. |
| # | Data exceeded client recommended or regulatory level |
| ND | Not Detected |
| RL | Reporting Limit |
| DL | Method Detection Limit |
| MCL | Maximum Contaminant 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. |
| MS-11 | Matrix spike recovery outside of control limits. Possibility of sample matrix effects that lead to a high bias for reported result or non-homogeneous sample aliquots cannot be eliminated. |
| MS-21 | Matrix spike and/or spike duplicate recovery bias high due to contribution of other Aroclors present in the source sample. |
| R-05 | Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound. |
| RL-11 | Elevated reporting limit due to high concentration of target compounds. |
| 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-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 Soil | |
| Arsenic | CT,NH,NY,ME,VA |
| Barium | CT,NH,NY,ME,VA |
| Cadmium | CT,NH,NY,ME,VA |
| Chromium | CT,NH,NY,ME,VA |
| Lead | CT,NH,NY,AIHA,ME,VA |
| Selenium | CT,NH,NY,ME,VA |
| Silver | CT,NH,NY,ME,VA |
| SW-846 7471B in Soil | |
| Mercury | CT,NH,NY,NC,ME,VA |
| SW-846 8082A in Soil | |
| Aroclor-1016 | CT,NH,NY,ME,NC,VA |
| Aroclor-1016 [2C] | CT,NH,NY,ME,NC,VA |
| Aroclor-1221 | CT,NH,NY,ME,NC,VA |
| Aroclor-1221 [2C] | CT,NH,NY,ME,NC,VA |
| Aroclor-1232 | CT,NH,NY,ME,NC,VA |
| Aroclor-1232 [2C] | CT,NH,NY,ME,NC,VA |
| Aroclor-1242 | CT,NH,NY,ME,NC,VA |
| Aroclor-1242 [2C] | CT,NH,NY,ME,NC,VA |
| Aroclor-1248 | CT,NH,NY,ME,NC,VA |
| Aroclor-1248 [2C] | CT,NH,NY,ME,NC,VA |
| Aroclor-1254 | CT,NH,NY,ME,NC,VA |
| Aroclor-1254 [2C] | CT,NH,NY,ME,NC,VA |
| Aroclor-1260 | CT,NH,NY,ME,NC,VA |
| Aroclor-1260 [2C] | CT,NH,NY,ME,NC,VA |
| Aroclor-1262 | NY,NC,VA |
| Aroclor-1262 [2C] | NY,NC,VA |
| Aroclor-1268 | NY,NC,VA |
| Aroclor-1268 [2C] | NY,NC,VA |
| SW-846 8260C in Soil | |
| Acetone | CT,NH,NY,ME,VA |
| Acetone | CT,NH,NY,ME,VA |
| Acrylonitrile | CT,NH,NY,ME,VA |
| Acrylonitrile | CT,NH,NY,ME,VA |
| Benzene | CT,NH,NY,ME,VA |
| Benzene | CT,NH,NY,ME,VA |
| Bromobenzene | NH,NY,ME,VA |
| Bromobenzene | NH,NY,ME,VA |
| Bromochloromethane | NH,NY,ME,VA |
| Bromochloromethane | NH,NY,ME,VA |
| Bromodichloromethane | CT,NH,NY,ME,VA |
| Bromodichloromethane | CT,NH,NY,ME,VA |
| Bromoform | CT,NH,NY,ME,VA |
| Bromoform | CT,NH,NY,ME,VA |
| Bromomethane | CT,NH,NY,ME,VA |
| Bromomethane | CT,NH,NY,ME,VA |
| 2-Butanone (MEK) | CT,NH,NY,ME,VA |

CERTIFICATIONS

Certified Analyses included in this Report

| Analyte | Certifications |
|------------------------------------|----------------|
| <i>SW-846 8260C in Soil</i> | |
| 2-Butanone (MEK) | CT,NH,NY,ME,VA |
| n-Butylbenzene | CT,NH,NY,ME,VA |
| n-Butylbenzene | CT,NH,NY,ME,VA |
| sec-Butylbenzene | CT,NH,NY,ME,VA |
| sec-Butylbenzene | CT,NH,NY,ME,VA |
| tert-Butylbenzene | CT,NH,NY,ME,VA |
| tert-Butylbenzene | CT,NH,NY,ME,VA |
| Carbon Disulfide | CT,NH,NY,ME,VA |
| Carbon Disulfide | CT,NH,NY,ME,VA |
| Carbon Tetrachloride | CT,NH,NY,ME,VA |
| Carbon Tetrachloride | CT,NH,NY,ME,VA |
| Chlorobenzene | CT,NH,NY,ME,VA |
| Chlorobenzene | CT,NH,NY,ME,VA |
| Chlorodibromomethane | CT,NH,NY,ME,VA |
| Chlorodibromomethane | CT,NH,NY,ME,VA |
| Chloroethane | CT,NH,NY,ME,VA |
| Chloroethane | CT,NH,NY,ME,VA |
| Chloroform | CT,NH,NY,ME,VA |
| Chloroform | CT,NH,NY,ME,VA |
| Chloromethane | CT,NH,NY,ME,VA |
| Chloromethane | CT,NH,NY,ME,VA |
| 2-Chlorotoluene | CT,NH,NY,ME,VA |
| 2-Chlorotoluene | CT,NH,NY,ME,VA |
| 4-Chlorotoluene | CT,NH,NY,ME,VA |
| 4-Chlorotoluene | CT,NH,NY,ME,VA |
| Dibromomethane | NH,NY,ME,VA |
| Dibromomethane | NH,NY,ME,VA |
| 1,2-Dichlorobenzene | CT,NH,NY,ME,VA |
| 1,2-Dichlorobenzene | CT,NH,NY,ME,VA |
| 1,3-Dichlorobenzene | CT,NH,NY,ME,VA |
| 1,3-Dichlorobenzene | CT,NH,NY,ME,VA |
| 1,4-Dichlorobenzene | CT,NH,NY,ME,VA |
| 1,4-Dichlorobenzene | CT,NH,NY,ME,VA |
| Dichlorodifluoromethane (Freon 12) | NH,NY,ME,VA |
| Dichlorodifluoromethane (Freon 12) | NY,ME,VA |
| 1,1-Dichloroethane | CT,NH,NY,ME,VA |
| 1,1-Dichloroethane | CT,NH,NY,ME,VA |
| 1,2-Dichloroethane | CT,NH,NY,ME,VA |
| 1,2-Dichloroethane | CT,NH,NY,ME,VA |
| 1,1-Dichloroethylene | CT,NH,NY,ME,VA |
| 1,1-Dichloroethylene | CT,NH,NY,ME,VA |
| cis-1,2-Dichloroethylene | CT,NH,NY,ME,VA |
| cis-1,2-Dichloroethylene | CT,NH,NY,ME,VA |
| trans-1,2-Dichloroethylene | CT,NH,NY,ME,VA |
| trans-1,2-Dichloroethylene | CT,NH,NY,ME,VA |
| 1,2-Dichloropropane | CT,NH,NY,ME,VA |
| 1,2-Dichloropropane | CT,NH,NY,ME,VA |

CERTIFICATIONS

Certified Analyses included in this Report

| Analyte | Certifications |
|--------------------------------|----------------|
| <i>SW-846 8260C in Soil</i> | |
| 1,3-Dichloropropane | NH,NY,ME,VA |
| 1,3-Dichloropropane | NH,NY,ME,VA |
| 2,2-Dichloropropane | NH,NY,ME,VA |
| 2,2-Dichloropropane | NH,NY,ME,VA |
| 1,1-Dichloropropene | NH,NY,ME,VA |
| 1,1-Dichloropropene | NH,NY,ME,VA |
| cis-1,3-Dichloropropene | CT,NH,NY,ME,VA |
| cis-1,3-Dichloropropene | CT,NH,NY,ME,VA |
| trans-1,3-Dichloropropene | CT,NH,NY,ME,VA |
| trans-1,3-Dichloropropene | CT,NH,NY,ME,VA |
| Ethylbenzene | CT,NH,NY,ME,VA |
| Ethylbenzene | CT,NH,NY,ME,VA |
| Hexachlorobutadiene | NH,NY,ME,VA |
| Hexachlorobutadiene | NH,NY,ME,VA |
| 2-Hexanone (MBK) | CT,NH,NY,ME,VA |
| 2-Hexanone (MBK) | CT,NH,NY,ME,VA |
| Isopropylbenzene (Cumene) | CT,NH,NY,ME,VA |
| Isopropylbenzene (Cumene) | CT,NH,NY,ME,VA |
| p-Isopropyltoluene (p-Cymene) | NH,NY |
| p-Isopropyltoluene (p-Cymene) | NH,NY |
| Methyl tert-Butyl Ether (MTBE) | NY,VA |
| Methyl tert-Butyl Ether (MTBE) | NY,VA |
| Methylene Chloride | CT,NH,NY,ME,VA |
| Methylene Chloride | CT,NH,NY,ME,VA |
| 4-Methyl-2-pentanone (MIBK) | CT,NH,NY,VA |
| 4-Methyl-2-pentanone (MIBK) | CT,NH,NY,VA |
| Naphthalene | NH,NY,ME,VA |
| Naphthalene | NH,NY,ME,VA |
| n-Propylbenzene | NH,NY |
| n-Propylbenzene | NH,NY |
| Styrene | CT,NH,NY,ME,VA |
| Styrene | CT,NH,NY,ME,VA |
| 1,1,1,2-Tetrachloroethane | CT,NH,NY,ME,VA |
| 1,1,1,2-Tetrachloroethane | CT,NH,NY,ME,VA |
| 1,1,2,2-Tetrachloroethane | CT,NH,NY,ME,VA |
| 1,1,2,2-Tetrachloroethane | CT,NH,NY,ME,VA |
| Tetrachloroethylene | CT,NH,NY,ME,VA |
| Tetrachloroethylene | CT,NH,NY,ME,VA |
| Toluene | CT,NH,NY,ME,VA |
| Toluene | CT,NH,NY,ME,VA |
| 1,2,3-Trichlorobenzene | ME |
| 1,2,4-Trichlorobenzene | NH,NY,ME,VA |
| 1,2,4-Trichlorobenzene | NH,NY,ME,VA |
| 1,3,5-Trichlorobenzene | ME |
| 1,1,1-Trichloroethane | CT,NH,NY,ME,VA |
| 1,1,1-Trichloroethane | CT,NH,NY,ME,VA |
| 1,1,2-Trichloroethane | CT,NH,NY,ME,VA |

CERTIFICATIONS

Certified Analyses included in this Report

| Analyte | Certifications |
|-----------------------------------|----------------|
| <i>SW-846 8260C in Soil</i> | |
| 1,1,2-Trichloroethane | CT,NH,NY,ME,VA |
| Trichloroethylene | CT,NH,NY,ME,VA |
| Trichloroethylene | CT,NH,NY,ME,VA |
| Trichlorofluoromethane (Freon 11) | CT,NH,NY,ME,VA |
| Trichlorofluoromethane (Freon 11) | CT,NH,NY,VA |
| 1,2,3-Trichloropropane | NH,NY,ME,VA |
| 1,2,3-Trichloropropane | NH,NY,ME,VA |
| 1,2,4-Trimethylbenzene | CT,NH,NY,ME,VA |
| 1,2,4-Trimethylbenzene | CT,NH,NY,ME,VA |
| 1,3,5-Trimethylbenzene | CT,NH,NY,ME,VA |
| 1,3,5-Trimethylbenzene | CT,NH,NY,ME,VA |
| Vinyl Chloride | CT,NH,NY,ME,VA |
| Vinyl Chloride | CT,NH,NY,ME,VA |
| m+p Xylene | CT,NH,NY,ME,VA |
| m+p Xylene | CT,NH,NY,ME,VA |
| o-Xylene | CT,NH,NY,ME,VA |
| o-Xylene | CT,NH,NY,ME,VA |

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

| Code | Description | Number | Expires |
|------|----------------------------------------------|---------------|------------|
| AIHA | AIHA-LAP, LLC | 100033 | 02/1/2018 |
| MA | Massachusetts DEP | M-MA100 | 06/30/2016 |
| CT | Connecticut Department of Public Health | PH-0567 | 09/30/2017 |
| NY | New York State Department of Health | 10899 NELAP | 04/1/2016 |
| NH-S | New Hampshire Environmental Lab | 2516 NELAP | 02/5/2017 |
| RI | Rhode Island Department of Health | LAO00112 | 12/30/2016 |
| NC | North Carolina Div. of Water Quality | 652 | 12/31/2016 |
| NJ | New Jersey DEP | MA007 NELAP | 06/30/2016 |
| FL | Florida Department of Health | E871027 NELAP | 06/30/2016 |
| VT | Vermont Department of Health Lead Laboratory | LL015036 | 07/30/2016 |
| WA | State of Washington Department of Ecology | C2065 | 02/23/2016 |
| ME | State of Maine | 2011028 | 06/9/2017 |
| VA | Commonwealth of Virginia | 460217 | 12/14/2016 |
| NH-P | New Hampshire Environmental Lab | 2557 NELAP | 09/6/2016 |



Phone: 413-525-2332

Fax: 413-525-6405

Email: info@contestlabs.com

www.contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East longmeadow, MA 01028

1030521
Rev 04.05.12

Company Name: Coneco
Address: 4 First Street
Bridgewater, MA 02324
Attention: Environmental AP
Project Location: 434 Allens Ave, Providence, RI
Sampled By: TSN
Project Proposal Provided? (for billing purposes)
 yes no proposal date

Telephone: 508-697-3191
Project # 7400, B
Client PO# 7400, B
DATA DELIVERY (check all that apply)
 FAX EMAIL WEBSITE
thieuvenhuis; mbruch;
Email: j.vazelis@coneco.com
Format: PDF EXCEL GIS
 OTHER
 "Enhanced Data Package"

| | | | | | | | | | | | | | | | | | |
|---|---|---|-----|--|--|--|--|--|--|--|--|--|--|--|--|--|--------------------|
| I | I | I | 3 | | | | | | | | | | | | | | # of Containers |
| E | E | E | M/6 | | | | | | | | | | | | | | ** Preservation |
| A | A | A | V | | | | | | | | | | | | | | *** Container Code |

ANALYSIS REQUESTED

Dissolved Metals
 Field Filtered
 Lab to Filter

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

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

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

| Con-Test Lab ID <small>(laboratory use only)</small> | Client Sample ID / Description | Collection | | Composite | Grab | *Matrix Code | Conc Code | TPH | PCBs | RCRA & Metals | VOCs | S100 | S082 | S260 |
|---------------------------------------------------------|--------------------------------|---------------------|---------------|-----------|------|--------------|-----------|-----|------|---------------|------|------|------|------|
| | | Beginning Date/Time | End Date/Time | | | | | | | | | | | |
| 01 | SB-01, SS-05 (8-10') | 2/9/16 | 9:22am | | X | S | U | X | X | X | X | | | |
| 02 | SB-02, SS-01 (0-2') | | 9:50am | | | | | | | | | | | |
| 03 | SB-02, SS-03 (4-6') | | 10:00am | | | | | | | | | | | |
| 04 | SB-03, SS-07 (12-14') | | 10:50am | | | | | | | | | | | |
| 05 | SB-04, SS-04 (6-8') | | 11:30am | | | | | | | | | | | |
| 06 | SB-05, SS-04 (6-8') | | 12:00pm | | | | | | | | | | | |
| 07 | SB-06, SS-05 (8-10') | | 12:50pm | | | | | | | | | | | |
| 08 | SB-07, SS-02 (2-4') | | 1:40pm | | | | | | | | | | | |
| 09 | SB-08, SS-05 (8-10') | | 2:45pm | | | | | | | | | | | |
| 10 | SB-09, SS-01 (0-2') | | 3:40pm | | | | | | | | | | | |

Comments:

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

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

Relinquished by: (signature) [Signature] Date/Time: _____
Received by: (signature) [Signature] Date/Time: 2/11/16 12:10
Relinquished by: (signature) [Signature] Date/Time: 2/11/16 1500
Received by: (signature) [Signature] Date/Time: 2/11/16 1500

Turnaround ^{††}
 7-Day
 10-Day
 Other 5-yr
RUSH [†]
 [†]24-Hr [†]48-Hr
 [†]72-Hr [†]4-Day
 Require lab approval

Detection Limit Requirements
Massachusetts: _____
Connecticut: _____
Other: RI- Residential

Is your project MCP or RCP ?
 MCP Form Required
 RCP Form Required 2/11/16 1500
 MA State DW Form Required PWSID # _____

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

Page 125 of 128

Table of Contents

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



Sample Receipt Checklist

CLIENT NAME: Coneco RECEIVED BY: JDL DATE: 2/11/2016

- 1) Was the chain(s) of custody relinquished and signed? Yes X No No COC Incl.
- 2) Does the chain agree with the samples? Yes X No
 If not, explain: _____
- 3) Are all the samples in good condition? Yes X No
 If not, explain: _____
- 4) How were the samples received:
 On Ice X Direct from Sampling Ambient In Cooler(s) X
- Were the samples received in Temperature Compliance of (2-6°C)? Yes X 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 X
 Who was notified Date Time
- 6) Are there any RUSH or SHORT HOLDING TIME samples? Yes No X
 Who was notified Date Time

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

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

Containers received at Con-Test

| | # of containers | | | # of containers |
|--------------------------------|-----------------|--|----------------------|-----------------|
| 1 Liter Amber | | | 16 oz amber | |
| 500 mL Amber | | | 8 oz amber/clear jar | 13 |
| 250 mL Amber (8oz amber) | | | 4 oz amber/clear jar | |
| 1 Liter Plastic | | | 2 oz amber/clear jar | |
| 500 mL Plastic | | | Plastic Bag / Ziploc | |
| 250 mL plastic | | | SOC Kit | |
| 40 mL Vial - type listed below | 39 | | Perchlorate Kit | |
| Colisure / bacteria bottle | | | Flashpoint bottle | |
| Dissolved Oxygen bottle | | | Other glass jar | |
| Encore | | | Other | |

| | | | | |
|--------------------|---------------|-------------|----|----------------------------------------------|
| 40 mL vials: # HCl | | # Methanol | 13 | Time and Date Frozen: 2/11/2016 15:00 |
| Doc# 277 | # Bisulfate | # DI Water | 26 | |
| Rev. 4 August 2013 | # Thiosulfate | Unpreserved | | |

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

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

Doc #277 Rev. 4 August 2013 **Who notified of False statements?**
Log-In Technician Initials: JDL

Date/Time:
Date/Time: 2/11/16 15:00

February 22, 2016

John Aevazelis
Coneco Engineers & Scientists, Inc.
4 First Street
Bridgewater, MA 02324

Project Location: 434 Allens Ave., Providence, RI
Client Job Number:
Project Number: 7400.B
Laboratory Work Order Number: 16B0629

Enclosed are results of analyses for samples received by the laboratory on February 15, 2016. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Steven Case", written in a cursive style.

Steven M. Case
Project Manager

Table of Contents

| | |
|-------------------------------------|----|
| Sample Summary | 3 |
| Case Narrative | 4 |
| Sample Results | 5 |
| 16B0629-01 | 5 |
| 16B0629-02 | 9 |
| 16B0629-03 | 13 |
| 16B0629-04 | 17 |
| 16B0629-05 | 21 |
| 16B0629-06 | 25 |
| 16B0629-07 | 29 |
| Sample Preparation Information | 33 |
| QC Data | 34 |
| Volatile Organic Compounds by GC/MS | 34 |
| B142422 | 34 |
| Petroleum Hydrocarbons Analyses | 39 |
| B142209 | 39 |
| Metals Analyses (Total) | 40 |
| B142144 | 40 |
| B142264 | 40 |
| Flag/Qualifier Summary | 42 |
| Certifications | 43 |
| Chain of Custody/Sample Receipt | 46 |

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

Coneco Engineers & Scientists, Inc.
 4 First Street
 Bridgewater, MA 02324
 ATTN: John Aevazelis

REPORT DATE: 2/22/2016

PURCHASE ORDER NUMBER: 7400.B

PROJECT NUMBER: 7400.B

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 16B0629

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

PROJECT LOCATION: 434 Allens Ave., Providence, RI

| FIELD SAMPLE # | LAB ID: | MATRIX | SAMPLE DESCRIPTION | TEST | SUB LAB |
|----------------|------------|--------------|--------------------|----------------------------------------------------------------------|---------|
| CMW-01 | 16B0629-01 | Ground Water | | SW-846 6020A SW-846 7470A SW-846 8100 Modified SW-846 8260C | |
| CMW-02 | 16B0629-02 | Ground Water | | SW-846 6020A SW-846 7470A SW-846 8100 Modified SW-846 8260C | |
| CMW-03 | 16B0629-03 | Ground Water | | SW-846 6020A SW-846 7470A SW-846 8100 Modified SW-846 8260C | |
| CMW-04 | 16B0629-04 | Ground Water | | SW-846 6020A SW-846 7470A SW-846 8100 Modified SW-846 8260C | |
| CMW-05 | 16B0629-05 | Ground Water | | SW-846 6020A SW-846 7470A SW-846 8100 Modified SW-846 8260C | |
| CMW-06 | 16B0629-06 | Ground Water | | SW-846 6020A SW-846 7470A SW-846 8100 Modified SW-846 8260C | |
| CMW-07 | 16B0629-07 | Ground Water | | SW-846 6020A SW-846 7470A SW-846 8100 Modified 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:****L-02**

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

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

B142422-BS1, B142422-BSD1

Diethyl Ether

B142422-BS1, B142422-BSD1

V-05

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

Analyte & Samples(s) Qualified:**trans-1,4-Dichloro-2-butene**

16B0629-01[CMW-01], 16B0629-02[CMW-02], 16B0629-03[CMW-03], 16B0629-04[CMW-04], 16B0629-05[CMW-05], 16B0629-06[CMW-06], 16B0629-07[CMW-07], B142422-BLK1, B142422-BS1, B142422-BSD1

V-20

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

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

B142422-BS1, B142422-BSD1

Chloroethane

B142422-BS1, B142422-BSD1

Chloromethane

B142422-BS1, B142422-BSD1

Diethyl Ether

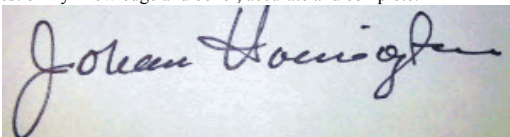
B142422-BS1, B142422-BSD1

SW-846 8100 Modified

TPH (C9-C36) is quantitated against a calibration made with a diesel standard.

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

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



Johanna K. Harrington

Manager, Laboratory Reporting

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0629

Date Received: 2/15/2016

Field Sample #: CMW-01

Sampled: 2/12/2016 10:25

Sample ID: 16B0629-01

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|------------------------------------|---------|------|-------|----------|-----------|--------------|---------------|--------------------|---------|
| Acetone | ND | 50 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:28 | EEH |
| Acrylonitrile | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:28 | EEH |
| tert-Amyl Methyl Ether (TAME) | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:28 | EEH |
| Benzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:28 | EEH |
| Bromobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:28 | EEH |
| Bromochloromethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:28 | EEH |
| Bromodichloromethane | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:28 | EEH |
| Bromoform | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:28 | EEH |
| Bromomethane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:28 | EEH |
| 2-Butanone (MEK) | ND | 20 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:28 | EEH |
| tert-Butyl Alcohol (TBA) | ND | 20 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:28 | EEH |
| n-Butylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:28 | EEH |
| sec-Butylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:28 | EEH |
| tert-Butylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:28 | EEH |
| tert-Butyl Ethyl Ether (TBEE) | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:28 | EEH |
| Carbon Disulfide | ND | 4.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:28 | EEH |
| Carbon Tetrachloride | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:28 | EEH |
| Chlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:28 | EEH |
| Chlorodibromomethane | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:28 | EEH |
| Chloroethane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:28 | EEH |
| Chloroform | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:28 | EEH |
| Chloromethane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:28 | EEH |
| 2-Chlorotoluene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:28 | EEH |
| 4-Chlorotoluene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:28 | EEH |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:28 | EEH |
| 1,2-Dibromoethane (EDB) | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:28 | EEH |
| Dibromomethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:28 | EEH |
| 1,2-Dichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:28 | EEH |
| 1,3-Dichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:28 | EEH |
| 1,4-Dichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:28 | EEH |
| trans-1,4-Dichloro-2-butene | ND | 2.0 | µg/L | 1 | V-05 | SW-846 8260C | 2/18/16 | 2/20/16 3:28 | EEH |
| Dichlorodifluoromethane (Freon 12) | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:28 | EEH |
| 1,1-Dichloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:28 | EEH |
| 1,2-Dichloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:28 | EEH |
| 1,1-Dichloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:28 | EEH |
| cis-1,2-Dichloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:28 | EEH |
| trans-1,2-Dichloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:28 | EEH |
| 1,2-Dichloropropane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:28 | EEH |
| 1,3-Dichloropropane | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:28 | EEH |
| 2,2-Dichloropropane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:28 | EEH |
| 1,1-Dichloropropene | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:28 | EEH |
| cis-1,3-Dichloropropene | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:28 | EEH |
| trans-1,3-Dichloropropene | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:28 | EEH |
| Diethyl Ether | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:28 | EEH |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0629

Date Received: 2/15/2016

Field Sample #: CMW-01

Sampled: 2/12/2016 10:25

Sample ID: 16B0629-01

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---------------------------------------------------|---------|------|-------|----------|-----------|--------------|---------------|--------------------|---------|
| Diisopropyl Ether (DIPE) | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:28 | EEH |
| 1,4-Dioxane | ND | 50 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:28 | EEH |
| Ethylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:28 | EEH |
| Hexachlorobutadiene | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:28 | EEH |
| 2-Hexanone (MBK) | ND | 10 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:28 | EEH |
| Isopropylbenzene (Cumene) | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:28 | EEH |
| p-Isopropyltoluene (p-Cymene) | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:28 | EEH |
| Methyl tert-Butyl Ether (MTBE) | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:28 | EEH |
| Methylene Chloride | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:28 | EEH |
| 4-Methyl-2-pentanone (MIBK) | ND | 10 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:28 | EEH |
| Naphthalene | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:28 | EEH |
| n-Propylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:28 | EEH |
| Styrene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:28 | EEH |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:28 | EEH |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:28 | EEH |
| Tetrachloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:28 | EEH |
| Tetrahydrofuran | ND | 10 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:28 | EEH |
| Toluene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:28 | EEH |
| 1,2,3-Trichlorobenzene | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:28 | EEH |
| 1,2,4-Trichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:28 | EEH |
| 1,3,5-Trichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:28 | EEH |
| 1,1,1-Trichloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:28 | EEH |
| 1,1,2-Trichloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:28 | EEH |
| Trichloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:28 | EEH |
| Trichlorofluoromethane (Freon 11) | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:28 | EEH |
| 1,2,3-Trichloropropane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:28 | EEH |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:28 | EEH |
| 1,2,4-Trimethylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:28 | EEH |
| 1,3,5-Trimethylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:28 | EEH |
| Vinyl Chloride | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:28 | EEH |
| m+p Xylene | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:28 | EEH |
| o-Xylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:28 | EEH |

| Surrogates | % Recovery | Recovery Limits | Flag/Qual |
|-----------------------|------------|-----------------|--------------|
| 1,2-Dichloroethane-d4 | 97.0 | 70-130 | 2/20/16 3:28 |
| Toluene-d8 | 98.4 | 70-130 | 2/20/16 3:28 |
| 4-Bromofluorobenzene | 99.8 | 70-130 | 2/20/16 3:28 |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0629

Date Received: 2/15/2016

Field Sample #: CMW-01

Sampled: 2/12/2016 10:25

Sample ID: 16B0629-01

Sample Matrix: Ground Water

Petroleum Hydrocarbons Analyses

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|--------------|------------|------|-----------------|----------|-----------|----------------------|---------------|--------------------|---------|
| TPH (C9-C36) | ND | 0.20 | mg/L | 1 | | SW-846 8100 Modified | 2/16/16 | 2/17/16 11:38 | SCS |
| Surrogates | % Recovery | | Recovery Limits | | Flag/Qual | | | | |
| o-Terphenyl | 77.9 | | 40-140 | | | | | 2/17/16 11:38 | |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0629

Date Received: 2/15/2016

Field Sample #: CMW-01

Sampled: 2/12/2016 10:25

Sample ID: 16B0629-01

Sample Matrix: Ground Water

Metals Analyses (Total)

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|----------|---------|---------|-------|----------|-----------|--------------|---------------|--------------------|---------|
| Arsenic | 11 | 2.0 | µg/L | 5 | | SW-846 6020A | 2/16/16 | 2/17/16 11:55 | MJH |
| Barium | 390 | 50 | µg/L | 5 | | SW-846 6020A | 2/16/16 | 2/17/16 11:55 | MJH |
| Cadmium | ND | 2.5 | µg/L | 5 | | SW-846 6020A | 2/16/16 | 2/17/16 11:55 | MJH |
| Chromium | ND | 5.0 | µg/L | 5 | | SW-846 6020A | 2/16/16 | 2/17/16 11:55 | MJH |
| Lead | ND | 5.0 | µg/L | 5 | | SW-846 6020A | 2/16/16 | 2/17/16 11:55 | MJH |
| Mercury | ND | 0.00010 | mg/L | 1 | | SW-846 7470A | 2/17/16 | 2/19/16 9:22 | SCB |
| Selenium | ND | 25 | µg/L | 5 | | SW-846 6020A | 2/16/16 | 2/17/16 11:55 | MJH |
| Silver | ND | 2.5 | µg/L | 5 | | SW-846 6020A | 2/16/16 | 2/17/16 11:55 | MJH |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0629

Date Received: 2/15/2016

Field Sample #: CMW-02

Sampled: 2/12/2016 10:12

Sample ID: 16B0629-02

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 | 50 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:55 | EEH |
| Acrylonitrile | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:55 | EEH |
| tert-Amyl Methyl Ether (TAME) | 1.6 | 0.50 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:55 | EEH |
| Benzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:55 | EEH |
| Bromobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:55 | EEH |
| Bromochloromethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:55 | EEH |
| Bromodichloromethane | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:55 | EEH |
| Bromoform | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:55 | EEH |
| Bromomethane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:55 | EEH |
| 2-Butanone (MEK) | ND | 20 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:55 | EEH |
| tert-Butyl Alcohol (TBA) | 57 | 20 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:55 | EEH |
| n-Butylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:55 | EEH |
| sec-Butylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:55 | EEH |
| tert-Butylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:55 | EEH |
| tert-Butyl Ethyl Ether (TBEE) | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:55 | EEH |
| Carbon Disulfide | ND | 4.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:55 | EEH |
| Carbon Tetrachloride | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:55 | EEH |
| Chlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:55 | EEH |
| Chlorodibromomethane | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:55 | EEH |
| Chloroethane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:55 | EEH |
| Chloroform | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:55 | EEH |
| Chloromethane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:55 | EEH |
| 2-Chlorotoluene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:55 | EEH |
| 4-Chlorotoluene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:55 | EEH |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:55 | EEH |
| 1,2-Dibromoethane (EDB) | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:55 | EEH |
| Dibromomethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:55 | EEH |
| 1,2-Dichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:55 | EEH |
| 1,3-Dichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:55 | EEH |
| 1,4-Dichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:55 | EEH |
| trans-1,4-Dichloro-2-butene | ND | 2.0 | µg/L | 1 | V-05 | SW-846 8260C | 2/18/16 | 2/20/16 3:55 | EEH |
| Dichlorodifluoromethane (Freon 12) | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:55 | EEH |
| 1,1-Dichloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:55 | EEH |
| 1,2-Dichloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:55 | EEH |
| 1,1-Dichloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:55 | EEH |
| cis-1,2-Dichloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:55 | EEH |
| trans-1,2-Dichloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:55 | EEH |
| 1,2-Dichloropropane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:55 | EEH |
| 1,3-Dichloropropane | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:55 | EEH |
| 2,2-Dichloropropane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:55 | EEH |
| 1,1-Dichloropropene | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:55 | EEH |
| cis-1,3-Dichloropropene | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:55 | EEH |
| trans-1,3-Dichloropropene | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:55 | EEH |
| Diethyl Ether | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:55 | EEH |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0629

Date Received: 2/15/2016

Field Sample #: CMW-02

Sampled: 2/12/2016 10:12

Sample ID: 16B0629-02

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---------------------------------------------------|---------|------|-------|----------|-----------|--------------|---------------|--------------------|---------|
| Diisopropyl Ether (DIPE) | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:55 | EEH |
| 1,4-Dioxane | ND | 50 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:55 | EEH |
| Ethylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:55 | EEH |
| Hexachlorobutadiene | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:55 | EEH |
| 2-Hexanone (MBK) | ND | 10 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:55 | EEH |
| Isopropylbenzene (Cumene) | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:55 | EEH |
| p-Isopropyltoluene (p-Cymene) | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:55 | EEH |
| Methyl tert-Butyl Ether (MTBE) | 16 | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:55 | EEH |
| Methylene Chloride | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:55 | EEH |
| 4-Methyl-2-pentanone (MIBK) | ND | 10 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:55 | EEH |
| Naphthalene | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:55 | EEH |
| n-Propylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:55 | EEH |
| Styrene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:55 | EEH |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:55 | EEH |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:55 | EEH |
| Tetrachloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:55 | EEH |
| Tetrahydrofuran | ND | 10 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:55 | EEH |
| Toluene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:55 | EEH |
| 1,2,3-Trichlorobenzene | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:55 | EEH |
| 1,2,4-Trichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:55 | EEH |
| 1,3,5-Trichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:55 | EEH |
| 1,1,1-Trichloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:55 | EEH |
| 1,1,2-Trichloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:55 | EEH |
| Trichloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:55 | EEH |
| Trichlorofluoromethane (Freon 11) | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:55 | EEH |
| 1,2,3-Trichloropropane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:55 | EEH |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:55 | EEH |
| 1,2,4-Trimethylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:55 | EEH |
| 1,3,5-Trimethylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:55 | EEH |
| Vinyl Chloride | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:55 | EEH |
| m+p Xylene | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:55 | EEH |
| o-Xylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 3:55 | EEH |

| Surrogates | % Recovery | Recovery Limits | Flag/Qual |
|-----------------------|------------|-----------------|--------------|
| 1,2-Dichloroethane-d4 | 99.1 | 70-130 | 2/20/16 3:55 |
| Toluene-d8 | 97.7 | 70-130 | 2/20/16 3:55 |
| 4-Bromofluorobenzene | 101 | 70-130 | 2/20/16 3:55 |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0629

Date Received: 2/15/2016

Field Sample #: CMW-02

Sampled: 2/12/2016 10:12

Sample ID: 16B0629-02

Sample Matrix: Ground Water

Petroleum Hydrocarbons Analyses

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|--------------|------------|------|-----------------|----------|-----------|----------------------|---------------|--------------------|---------|
| TPH (C9-C36) | 0.45 | 0.20 | mg/L | 1 | | SW-846 8100 Modified | 2/16/16 | 2/17/16 12:10 | SCS |
| Surrogates | % Recovery | | Recovery Limits | | Flag/Qual | | | | |
| o-Terphenyl | 86.9 | | 40-140 | | | | | 2/17/16 12:10 | |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0629

Date Received: 2/15/2016

Field Sample #: CMW-02

Sampled: 2/12/2016 10:12

Sample ID: 16B0629-02

Sample Matrix: Ground Water

Metals Analyses (Total)

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|----------|---------|---------|-------|----------|-----------|--------------|---------------|--------------------|---------|
| Arsenic | 4.6 | 2.0 | µg/L | 5 | | SW-846 6020A | 2/16/16 | 2/17/16 11:58 | MJH |
| Barium | 720 | 50 | µg/L | 5 | | SW-846 6020A | 2/16/16 | 2/17/16 11:58 | MJH |
| Cadmium | ND | 2.5 | µg/L | 5 | | SW-846 6020A | 2/16/16 | 2/17/16 11:58 | MJH |
| Chromium | ND | 5.0 | µg/L | 5 | | SW-846 6020A | 2/16/16 | 2/17/16 11:58 | MJH |
| Lead | ND | 5.0 | µg/L | 5 | | SW-846 6020A | 2/16/16 | 2/17/16 11:58 | MJH |
| Mercury | ND | 0.00010 | mg/L | 1 | | SW-846 7470A | 2/17/16 | 2/19/16 9:24 | SCB |
| Selenium | ND | 25 | µg/L | 5 | | SW-846 6020A | 2/16/16 | 2/17/16 11:58 | MJH |
| Silver | ND | 2.5 | µg/L | 5 | | SW-846 6020A | 2/16/16 | 2/17/16 11:58 | MJH |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0629

Date Received: 2/15/2016

Field Sample #: CMW-03

Sampled: 2/12/2016 10:00

Sample ID: 16B0629-03

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 | 50 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:21 | EEH |
| Acrylonitrile | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:21 | EEH |
| tert-Amyl Methyl Ether (TAME) | 3.9 | 0.50 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:21 | EEH |
| Benzene | 3.2 | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:21 | EEH |
| Bromobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:21 | EEH |
| Bromochloromethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:21 | EEH |
| Bromodichloromethane | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:21 | EEH |
| Bromoform | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:21 | EEH |
| Bromomethane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:21 | EEH |
| 2-Butanone (MEK) | ND | 20 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:21 | EEH |
| tert-Butyl Alcohol (TBA) | 43 | 20 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:21 | EEH |
| n-Butylbenzene | 5.4 | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:21 | EEH |
| sec-Butylbenzene | 8.9 | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:21 | EEH |
| tert-Butylbenzene | 1.8 | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:21 | EEH |
| tert-Butyl Ethyl Ether (TBEE) | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:21 | EEH |
| Carbon Disulfide | ND | 4.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:21 | EEH |
| Carbon Tetrachloride | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:21 | EEH |
| Chlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:21 | EEH |
| Chlorodibromomethane | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:21 | EEH |
| Chloroethane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:21 | EEH |
| Chloroform | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:21 | EEH |
| Chloromethane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:21 | EEH |
| 2-Chlorotoluene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:21 | EEH |
| 4-Chlorotoluene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:21 | EEH |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:21 | EEH |
| 1,2-Dibromoethane (EDB) | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:21 | EEH |
| Dibromomethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:21 | EEH |
| 1,2-Dichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:21 | EEH |
| 1,3-Dichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:21 | EEH |
| 1,4-Dichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:21 | EEH |
| trans-1,4-Dichloro-2-butene | ND | 2.0 | µg/L | 1 | V-05 | SW-846 8260C | 2/18/16 | 2/20/16 4:21 | EEH |
| Dichlorodifluoromethane (Freon 12) | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:21 | EEH |
| 1,1-Dichloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:21 | EEH |
| 1,2-Dichloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:21 | EEH |
| 1,1-Dichloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:21 | EEH |
| cis-1,2-Dichloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:21 | EEH |
| trans-1,2-Dichloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:21 | EEH |
| 1,2-Dichloropropane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:21 | EEH |
| 1,3-Dichloropropane | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:21 | EEH |
| 2,2-Dichloropropane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:21 | EEH |
| 1,1-Dichloropropene | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:21 | EEH |
| cis-1,3-Dichloropropene | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:21 | EEH |
| trans-1,3-Dichloropropene | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:21 | EEH |
| Diethyl Ether | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:21 | EEH |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0629

Date Received: 2/15/2016

Field Sample #: CMW-03

Sampled: 2/12/2016 10:00

Sample ID: 16B0629-03

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---------------------------------------------------|---------|------|-------|----------|-----------|--------------|---------------|--------------------|---------|
| Diisopropyl Ether (DIPE) | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:21 | EEH |
| 1,4-Dioxane | ND | 50 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:21 | EEH |
| Ethylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:21 | EEH |
| Hexachlorobutadiene | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:21 | EEH |
| 2-Hexanone (MBK) | ND | 10 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:21 | EEH |
| Isopropylbenzene (Cumene) | 21 | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:21 | EEH |
| p-Isopropyltoluene (p-Cymene) | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:21 | EEH |
| Methyl tert-Butyl Ether (MTBE) | 45 | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:21 | EEH |
| Methylene Chloride | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:21 | EEH |
| 4-Methyl-2-pentanone (MIBK) | ND | 10 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:21 | EEH |
| Naphthalene | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:21 | EEH |
| n-Propylbenzene | 50 | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:21 | EEH |
| Styrene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:21 | EEH |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:21 | EEH |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:21 | EEH |
| Tetrachloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:21 | EEH |
| Tetrahydrofuran | ND | 10 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:21 | EEH |
| Toluene | 8.0 | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:21 | EEH |
| 1,2,3-Trichlorobenzene | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:21 | EEH |
| 1,2,4-Trichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:21 | EEH |
| 1,3,5-Trichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:21 | EEH |
| 1,1,1-Trichloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:21 | EEH |
| 1,1,2-Trichloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:21 | EEH |
| Trichloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:21 | EEH |
| Trichlorofluoromethane (Freon 11) | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:21 | EEH |
| 1,2,3-Trichloropropane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:21 | EEH |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:21 | EEH |
| 1,2,4-Trimethylbenzene | 3.8 | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:21 | EEH |
| 1,3,5-Trimethylbenzene | 1.1 | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:21 | EEH |
| Vinyl Chloride | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:21 | EEH |
| m+p Xylene | 2.4 | 2.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:21 | EEH |
| o-Xylene | 1.8 | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:21 | EEH |

| Surrogates | % Recovery | Recovery Limits | Flag/Qual |
|-----------------------|------------|-----------------|-----------|
| 1,2-Dichloroethane-d4 | 97.7 | 70-130 | |
| Toluene-d8 | 97.5 | 70-130 | |
| 4-Bromofluorobenzene | 103 | 70-130 | |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0629

Date Received: 2/15/2016

Field Sample #: CMW-03

Sampled: 2/12/2016 10:00

Sample ID: 16B0629-03

Sample Matrix: Ground Water

Petroleum Hydrocarbons Analyses

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|--------------|------------|------|-----------------|----------|-----------|----------------------|---------------|--------------------|---------|
| TPH (C9-C36) | 1.9 | 0.20 | mg/L | 1 | | SW-846 8100 Modified | 2/16/16 | 2/17/16 13:38 | SCS |
| Surrogates | % Recovery | | Recovery Limits | | Flag/Qual | | | | |
| o-Terphenyl | 83.6 | | 40-140 | | | | | 2/17/16 13:38 | |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0629

Date Received: 2/15/2016

Field Sample #: CMW-03

Sampled: 2/12/2016 10:00

Sample ID: 16B0629-03

Sample Matrix: Ground Water

Metals Analyses (Total)

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|----------|---------|---------|-------|----------|-----------|--------------|---------------|--------------------|---------|
| Arsenic | 7.2 | 2.0 | µg/L | 5 | | SW-846 6020A | 2/16/16 | 2/17/16 12:09 | MJH |
| Barium | 380 | 50 | µg/L | 5 | | SW-846 6020A | 2/16/16 | 2/17/16 12:09 | MJH |
| Cadmium | ND | 2.5 | µg/L | 5 | | SW-846 6020A | 2/16/16 | 2/17/16 12:09 | MJH |
| Chromium | ND | 5.0 | µg/L | 5 | | SW-846 6020A | 2/16/16 | 2/17/16 12:09 | MJH |
| Lead | ND | 5.0 | µg/L | 5 | | SW-846 6020A | 2/16/16 | 2/17/16 12:09 | MJH |
| Mercury | ND | 0.00010 | mg/L | 1 | | SW-846 7470A | 2/17/16 | 2/19/16 9:25 | SCB |
| Selenium | ND | 25 | µg/L | 5 | | SW-846 6020A | 2/16/16 | 2/17/16 12:09 | MJH |
| Silver | ND | 2.5 | µg/L | 5 | | SW-846 6020A | 2/16/16 | 2/17/16 12:09 | MJH |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0629

Date Received: 2/15/2016

Field Sample #: CMW-04

Sampled: 2/12/2016 09:45

Sample ID: 16B0629-04

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 | 50 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:48 | EEH |
| Acrylonitrile | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:48 | EEH |
| tert-Amyl Methyl Ether (TAME) | 2.7 | 0.50 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:48 | EEH |
| Benzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:48 | EEH |
| Bromobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:48 | EEH |
| Bromochloromethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:48 | EEH |
| Bromodichloromethane | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:48 | EEH |
| Bromoform | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:48 | EEH |
| Bromomethane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:48 | EEH |
| 2-Butanone (MEK) | ND | 20 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:48 | EEH |
| tert-Butyl Alcohol (TBA) | ND | 20 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:48 | EEH |
| n-Butylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:48 | EEH |
| sec-Butylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:48 | EEH |
| tert-Butylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:48 | EEH |
| tert-Butyl Ethyl Ether (TBEE) | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:48 | EEH |
| Carbon Disulfide | ND | 4.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:48 | EEH |
| Carbon Tetrachloride | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:48 | EEH |
| Chlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:48 | EEH |
| Chlorodibromomethane | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:48 | EEH |
| Chloroethane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:48 | EEH |
| Chloroform | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:48 | EEH |
| Chloromethane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:48 | EEH |
| 2-Chlorotoluene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:48 | EEH |
| 4-Chlorotoluene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:48 | EEH |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:48 | EEH |
| 1,2-Dibromoethane (EDB) | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:48 | EEH |
| Dibromomethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:48 | EEH |
| 1,2-Dichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:48 | EEH |
| 1,3-Dichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:48 | EEH |
| 1,4-Dichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:48 | EEH |
| trans-1,4-Dichloro-2-butene | ND | 2.0 | µg/L | 1 | V-05 | SW-846 8260C | 2/18/16 | 2/20/16 4:48 | EEH |
| Dichlorodifluoromethane (Freon 12) | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:48 | EEH |
| 1,1-Dichloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:48 | EEH |
| 1,2-Dichloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:48 | EEH |
| 1,1-Dichloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:48 | EEH |
| cis-1,2-Dichloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:48 | EEH |
| trans-1,2-Dichloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:48 | EEH |
| 1,2-Dichloropropane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:48 | EEH |
| 1,3-Dichloropropane | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:48 | EEH |
| 2,2-Dichloropropane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:48 | EEH |
| 1,1-Dichloropropene | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:48 | EEH |
| cis-1,3-Dichloropropene | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:48 | EEH |
| trans-1,3-Dichloropropene | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:48 | EEH |
| Diethyl Ether | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:48 | EEH |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0629

Date Received: 2/15/2016

Field Sample #: CMW-04

Sampled: 2/12/2016 09:45

Sample ID: 16B0629-04

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---------------------------------------------------|---------|------|-------|----------|-----------|--------------|---------------|--------------------|---------|
| Diisopropyl Ether (DIPE) | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:48 | EEH |
| 1,4-Dioxane | ND | 50 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:48 | EEH |
| Ethylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:48 | EEH |
| Hexachlorobutadiene | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:48 | EEH |
| 2-Hexanone (MBK) | ND | 10 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:48 | EEH |
| Isopropylbenzene (Cumene) | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:48 | EEH |
| p-Isopropyltoluene (p-Cymene) | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:48 | EEH |
| Methyl tert-Butyl Ether (MTBE) | 33 | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:48 | EEH |
| Methylene Chloride | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:48 | EEH |
| 4-Methyl-2-pentanone (MIBK) | ND | 10 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:48 | EEH |
| Naphthalene | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:48 | EEH |
| n-Propylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:48 | EEH |
| Styrene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:48 | EEH |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:48 | EEH |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:48 | EEH |
| Tetrachloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:48 | EEH |
| Tetrahydrofuran | ND | 10 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:48 | EEH |
| Toluene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:48 | EEH |
| 1,2,3-Trichlorobenzene | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:48 | EEH |
| 1,2,4-Trichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:48 | EEH |
| 1,3,5-Trichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:48 | EEH |
| 1,1,1-Trichloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:48 | EEH |
| 1,1,2-Trichloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:48 | EEH |
| Trichloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:48 | EEH |
| Trichlorofluoromethane (Freon 11) | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:48 | EEH |
| 1,2,3-Trichloropropane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:48 | EEH |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:48 | EEH |
| 1,2,4-Trimethylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:48 | EEH |
| 1,3,5-Trimethylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:48 | EEH |
| Vinyl Chloride | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:48 | EEH |
| m+p Xylene | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:48 | EEH |
| o-Xylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 4:48 | EEH |

| Surrogates | % Recovery | Recovery Limits | Flag/Qual |
|-----------------------|------------|-----------------|--------------|
| 1,2-Dichloroethane-d4 | 98.2 | 70-130 | 2/20/16 4:48 |
| Toluene-d8 | 98.4 | 70-130 | 2/20/16 4:48 |
| 4-Bromofluorobenzene | 98.9 | 70-130 | 2/20/16 4:48 |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0629

Date Received: 2/15/2016

Field Sample #: CMW-04

Sampled: 2/12/2016 09:45

Sample ID: 16B0629-04

Sample Matrix: Ground Water

Petroleum Hydrocarbons Analyses

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|--------------|------------|------|-----------------|----------|-----------|----------------------|---------------|--------------------|---------|
| TPH (C9-C36) | ND | 0.20 | mg/L | 1 | | SW-846 8100 Modified | 2/16/16 | 2/17/16 12:28 | SCS |
| Surrogates | % Recovery | | Recovery Limits | | Flag/Qual | | | | |
| o-Terphenyl | 81.6 | | 40-140 | | | | | 2/17/16 12:28 | |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0629

Date Received: 2/15/2016

Field Sample #: CMW-04

Sampled: 2/12/2016 09:45

Sample ID: 16B0629-04

Sample Matrix: Ground Water

Metals Analyses (Total)

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|----------|---------|---------|-------|----------|-----------|--------------|---------------|--------------------|---------|
| Arsenic | 2.3 | 2.0 | µg/L | 5 | | SW-846 6020A | 2/16/16 | 2/17/16 12:12 | MJH |
| Barium | 73 | 50 | µg/L | 5 | | SW-846 6020A | 2/16/16 | 2/17/16 12:12 | MJH |
| Cadmium | ND | 2.5 | µg/L | 5 | | SW-846 6020A | 2/16/16 | 2/17/16 12:12 | MJH |
| Chromium | ND | 5.0 | µg/L | 5 | | SW-846 6020A | 2/16/16 | 2/17/16 12:12 | MJH |
| Lead | ND | 5.0 | µg/L | 5 | | SW-846 6020A | 2/16/16 | 2/17/16 12:12 | MJH |
| Mercury | ND | 0.00010 | mg/L | 1 | | SW-846 7470A | 2/17/16 | 2/19/16 9:26 | SCB |
| Selenium | ND | 25 | µg/L | 5 | | SW-846 6020A | 2/16/16 | 2/17/16 12:12 | MJH |
| Silver | ND | 2.5 | µg/L | 5 | | SW-846 6020A | 2/16/16 | 2/17/16 12:12 | MJH |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0629

Date Received: 2/15/2016

Field Sample #: CMW-05

Sampled: 2/12/2016 10:43

Sample ID: 16B0629-05

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|------------------------------------|---------|------|-------|----------|-----------|--------------|---------------|--------------------|---------|
| Acetone | ND | 50 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:15 | EEH |
| Acrylonitrile | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:15 | EEH |
| tert-Amyl Methyl Ether (TAME) | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:15 | EEH |
| Benzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:15 | EEH |
| Bromobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:15 | EEH |
| Bromochloromethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:15 | EEH |
| Bromodichloromethane | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:15 | EEH |
| Bromoform | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:15 | EEH |
| Bromomethane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:15 | EEH |
| 2-Butanone (MEK) | ND | 20 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:15 | EEH |
| tert-Butyl Alcohol (TBA) | 89 | 20 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:15 | EEH |
| n-Butylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:15 | EEH |
| sec-Butylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:15 | EEH |
| tert-Butylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:15 | EEH |
| tert-Butyl Ethyl Ether (TBEE) | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:15 | EEH |
| Carbon Disulfide | ND | 4.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:15 | EEH |
| Carbon Tetrachloride | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:15 | EEH |
| Chlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:15 | EEH |
| Chlorodibromomethane | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:15 | EEH |
| Chloroethane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:15 | EEH |
| Chloroform | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:15 | EEH |
| Chloromethane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:15 | EEH |
| 2-Chlorotoluene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:15 | EEH |
| 4-Chlorotoluene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:15 | EEH |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:15 | EEH |
| 1,2-Dibromoethane (EDB) | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:15 | EEH |
| Dibromomethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:15 | EEH |
| 1,2-Dichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:15 | EEH |
| 1,3-Dichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:15 | EEH |
| 1,4-Dichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:15 | EEH |
| trans-1,4-Dichloro-2-butene | ND | 2.0 | µg/L | 1 | V-05 | SW-846 8260C | 2/18/16 | 2/20/16 5:15 | EEH |
| Dichlorodifluoromethane (Freon 12) | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:15 | EEH |
| 1,1-Dichloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:15 | EEH |
| 1,2-Dichloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:15 | EEH |
| 1,1-Dichloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:15 | EEH |
| cis-1,2-Dichloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:15 | EEH |
| trans-1,2-Dichloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:15 | EEH |
| 1,2-Dichloropropane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:15 | EEH |
| 1,3-Dichloropropane | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:15 | EEH |
| 2,2-Dichloropropane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:15 | EEH |
| 1,1-Dichloropropene | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:15 | EEH |
| cis-1,3-Dichloropropene | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:15 | EEH |
| trans-1,3-Dichloropropene | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:15 | EEH |
| Diethyl Ether | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:15 | EEH |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0629

Date Received: 2/15/2016

Field Sample #: CMW-05

Sampled: 2/12/2016 10:43

Sample ID: 16B0629-05

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---------------------------------------------------|---------|------|-------|----------|-----------|--------------|---------------|--------------------|---------|
| Diisopropyl Ether (DIPE) | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:15 | EEH |
| 1,4-Dioxane | ND | 50 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:15 | EEH |
| Ethylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:15 | EEH |
| Hexachlorobutadiene | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:15 | EEH |
| 2-Hexanone (MBK) | ND | 10 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:15 | EEH |
| Isopropylbenzene (Cumene) | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:15 | EEH |
| p-Isopropyltoluene (p-Cymene) | 14 | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:15 | EEH |
| Methyl tert-Butyl Ether (MTBE) | 21 | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:15 | EEH |
| Methylene Chloride | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:15 | EEH |
| 4-Methyl-2-pentanone (MIBK) | ND | 10 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:15 | EEH |
| Naphthalene | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:15 | EEH |
| n-Propylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:15 | EEH |
| Styrene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:15 | EEH |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:15 | EEH |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:15 | EEH |
| Tetrachloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:15 | EEH |
| Tetrahydrofuran | ND | 10 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:15 | EEH |
| Toluene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:15 | EEH |
| 1,2,3-Trichlorobenzene | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:15 | EEH |
| 1,2,4-Trichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:15 | EEH |
| 1,3,5-Trichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:15 | EEH |
| 1,1,1-Trichloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:15 | EEH |
| 1,1,2-Trichloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:15 | EEH |
| Trichloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:15 | EEH |
| Trichlorofluoromethane (Freon 11) | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:15 | EEH |
| 1,2,3-Trichloropropane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:15 | EEH |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:15 | EEH |
| 1,2,4-Trimethylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:15 | EEH |
| 1,3,5-Trimethylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:15 | EEH |
| Vinyl Chloride | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:15 | EEH |
| m+p Xylene | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:15 | EEH |
| o-Xylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:15 | EEH |

| Surrogates | % Recovery | Recovery Limits | Flag/Qual |
|-----------------------|------------|-----------------|--------------|
| 1,2-Dichloroethane-d4 | 97.5 | 70-130 | 2/20/16 5:15 |
| Toluene-d8 | 97.8 | 70-130 | 2/20/16 5:15 |
| 4-Bromofluorobenzene | 99.6 | 70-130 | 2/20/16 5:15 |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0629

Date Received: 2/15/2016

Field Sample #: CMW-05

Sampled: 2/12/2016 10:43

Sample ID: 16B0629-05

Sample Matrix: Ground Water

Petroleum Hydrocarbons Analyses

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|--------------|------------|------|-----------------|----------|-----------|----------------------|---------------|--------------------|---------|
| TPH (C9-C36) | 0.24 | 0.20 | mg/L | 1 | | SW-846 8100 Modified | 2/16/16 | 2/17/16 12:45 | SCS |
| Surrogates | % Recovery | | Recovery Limits | | Flag/Qual | | | | |
| o-Terphenyl | 75.3 | | 40-140 | | | | | 2/17/16 12:45 | |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0629

Date Received: 2/15/2016

Field Sample #: CMW-05

Sampled: 2/12/2016 10:43

Sample ID: 16B0629-05

Sample Matrix: Ground Water

Metals Analyses (Total)

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|----------|---------|---------|-------|----------|-----------|--------------|---------------|--------------------|---------|
| Arsenic | 9.2 | 2.0 | µg/L | 5 | | SW-846 6020A | 2/16/16 | 2/17/16 12:15 | MJH |
| Barium | 420 | 50 | µg/L | 5 | | SW-846 6020A | 2/16/16 | 2/17/16 12:15 | MJH |
| Cadmium | ND | 2.5 | µg/L | 5 | | SW-846 6020A | 2/16/16 | 2/17/16 12:15 | MJH |
| Chromium | ND | 5.0 | µg/L | 5 | | SW-846 6020A | 2/16/16 | 2/17/16 12:15 | MJH |
| Lead | ND | 5.0 | µg/L | 5 | | SW-846 6020A | 2/16/16 | 2/17/16 12:15 | MJH |
| Mercury | ND | 0.00010 | mg/L | 1 | | SW-846 7470A | 2/17/16 | 2/19/16 9:32 | SCB |
| Selenium | ND | 25 | µg/L | 5 | | SW-846 6020A | 2/16/16 | 2/17/16 12:15 | MJH |
| Silver | ND | 2.5 | µg/L | 5 | | SW-846 6020A | 2/16/16 | 2/17/16 12:15 | MJH |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0629

Date Received: 2/15/2016

Field Sample #: CMW-06

Sampled: 2/12/2016 11:00

Sample ID: 16B0629-06

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|------------------------------------|---------|------|-------|----------|-----------|--------------|---------------|--------------------|---------|
| Acetone | ND | 50 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:42 | EEH |
| Acrylonitrile | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:42 | EEH |
| tert-Amyl Methyl Ether (TAME) | 4.1 | 0.50 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:42 | EEH |
| Benzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:42 | EEH |
| Bromobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:42 | EEH |
| Bromochloromethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:42 | EEH |
| Bromodichloromethane | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:42 | EEH |
| Bromoform | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:42 | EEH |
| Bromomethane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:42 | EEH |
| 2-Butanone (MEK) | ND | 20 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:42 | EEH |
| tert-Butyl Alcohol (TBA) | ND | 20 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:42 | EEH |
| n-Butylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:42 | EEH |
| sec-Butylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:42 | EEH |
| tert-Butylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:42 | EEH |
| tert-Butyl Ethyl Ether (TBEE) | 0.95 | 0.50 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:42 | EEH |
| Carbon Disulfide | ND | 4.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:42 | EEH |
| Carbon Tetrachloride | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:42 | EEH |
| Chlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:42 | EEH |
| Chlorodibromomethane | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:42 | EEH |
| Chloroethane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:42 | EEH |
| Chloroform | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:42 | EEH |
| Chloromethane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:42 | EEH |
| 2-Chlorotoluene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:42 | EEH |
| 4-Chlorotoluene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:42 | EEH |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:42 | EEH |
| 1,2-Dibromoethane (EDB) | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:42 | EEH |
| Dibromomethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:42 | EEH |
| 1,2-Dichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:42 | EEH |
| 1,3-Dichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:42 | EEH |
| 1,4-Dichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:42 | EEH |
| trans-1,4-Dichloro-2-butene | ND | 2.0 | µg/L | 1 | V-05 | SW-846 8260C | 2/18/16 | 2/20/16 5:42 | EEH |
| Dichlorodifluoromethane (Freon 12) | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:42 | EEH |
| 1,1-Dichloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:42 | EEH |
| 1,2-Dichloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:42 | EEH |
| 1,1-Dichloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:42 | EEH |
| cis-1,2-Dichloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:42 | EEH |
| trans-1,2-Dichloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:42 | EEH |
| 1,2-Dichloropropane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:42 | EEH |
| 1,3-Dichloropropane | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:42 | EEH |
| 2,2-Dichloropropane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:42 | EEH |
| 1,1-Dichloropropene | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:42 | EEH |
| cis-1,3-Dichloropropene | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:42 | EEH |
| trans-1,3-Dichloropropene | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:42 | EEH |
| Diethyl Ether | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:42 | EEH |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0629

Date Received: 2/15/2016

Field Sample #: CMW-06

Sampled: 2/12/2016 11:00

Sample ID: 16B0629-06

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---------------------------------------------------|---------|------|-------|----------|-----------|--------------|---------------|--------------------|---------|
| Diisopropyl Ether (DIPE) | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:42 | EEH |
| 1,4-Dioxane | ND | 50 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:42 | EEH |
| Ethylbenzene | 1.9 | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:42 | EEH |
| Hexachlorobutadiene | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:42 | EEH |
| 2-Hexanone (MBK) | ND | 10 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:42 | EEH |
| Isopropylbenzene (Cumene) | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:42 | EEH |
| p-Isopropyltoluene (p-Cymene) | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:42 | EEH |
| Methyl tert-Butyl Ether (MTBE) | 45 | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:42 | EEH |
| Methylene Chloride | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:42 | EEH |
| 4-Methyl-2-pentanone (MIBK) | ND | 10 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:42 | EEH |
| Naphthalene | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:42 | EEH |
| n-Propylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:42 | EEH |
| Styrene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:42 | EEH |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:42 | EEH |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:42 | EEH |
| Tetrachloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:42 | EEH |
| Tetrahydrofuran | ND | 10 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:42 | EEH |
| Toluene | 5.8 | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:42 | EEH |
| 1,2,3-Trichlorobenzene | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:42 | EEH |
| 1,2,4-Trichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:42 | EEH |
| 1,3,5-Trichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:42 | EEH |
| 1,1,1-Trichloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:42 | EEH |
| 1,1,2-Trichloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:42 | EEH |
| Trichloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:42 | EEH |
| Trichlorofluoromethane (Freon 11) | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:42 | EEH |
| 1,2,3-Trichloropropane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:42 | EEH |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:42 | EEH |
| 1,2,4-Trimethylbenzene | 4.6 | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:42 | EEH |
| 1,3,5-Trimethylbenzene | 1.9 | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:42 | EEH |
| Vinyl Chloride | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:42 | EEH |
| m+p Xylene | 6.6 | 2.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:42 | EEH |
| o-Xylene | 3.9 | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 5:42 | EEH |

| Surrogates | % Recovery | Recovery Limits | Flag/Qual |
|-----------------------|------------|-----------------|--------------|
| 1,2-Dichloroethane-d4 | 97.9 | 70-130 | 2/20/16 5:42 |
| Toluene-d8 | 98.3 | 70-130 | 2/20/16 5:42 |
| 4-Bromofluorobenzene | 98.8 | 70-130 | 2/20/16 5:42 |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0629

Date Received: 2/15/2016

Field Sample #: CMW-06

Sampled: 2/12/2016 11:00

Sample ID: 16B0629-06

Sample Matrix: Ground Water

Petroleum Hydrocarbons Analyses

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|--------------|------------|------|-----------------|----------|-----------|----------------------|---------------|--------------------|---------|
| TPH (C9-C36) | 0.23 | 0.20 | mg/L | 1 | | SW-846 8100 Modified | 2/16/16 | 2/17/16 13:03 | SCS |
| Surrogates | % Recovery | | Recovery Limits | | Flag/Qual | | | | |
| o-Terphenyl | 93.4 | | 40-140 | | | | | 2/17/16 13:03 | |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0629

Date Received: 2/15/2016

Field Sample #: CMW-06

Sampled: 2/12/2016 11:00

Sample ID: 16B0629-06

Sample Matrix: Ground Water

Metals Analyses (Total)

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|----------|---------|---------|-------|----------|-----------|--------------|---------------|--------------------|---------|
| Arsenic | 4.7 | 2.0 | µg/L | 5 | | SW-846 6020A | 2/16/16 | 2/17/16 12:19 | MJH |
| Barium | 700 | 50 | µg/L | 5 | | SW-846 6020A | 2/16/16 | 2/17/16 12:19 | MJH |
| Cadmium | ND | 2.5 | µg/L | 5 | | SW-846 6020A | 2/16/16 | 2/17/16 12:19 | MJH |
| Chromium | ND | 5.0 | µg/L | 5 | | SW-846 6020A | 2/16/16 | 2/17/16 12:19 | MJH |
| Lead | ND | 5.0 | µg/L | 5 | | SW-846 6020A | 2/16/16 | 2/17/16 12:19 | MJH |
| Mercury | ND | 0.00010 | mg/L | 1 | | SW-846 7470A | 2/17/16 | 2/19/16 9:33 | SCB |
| Selenium | ND | 25 | µg/L | 5 | | SW-846 6020A | 2/16/16 | 2/17/16 12:19 | MJH |
| Silver | ND | 2.5 | µg/L | 5 | | SW-846 6020A | 2/16/16 | 2/17/16 12:19 | MJH |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0629

Date Received: 2/15/2016

Field Sample #: CMW-07

Sampled: 2/12/2016 11:15

Sample ID: 16B0629-07

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|------------------------------------|---------|------|-------|----------|-----------|--------------|---------------|--------------------|---------|
| Acetone | ND | 50 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 6:09 | EEH |
| Acrylonitrile | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 6:09 | EEH |
| tert-Amyl Methyl Ether (TAME) | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 6:09 | EEH |
| Benzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 6:09 | EEH |
| Bromobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 6:09 | EEH |
| Bromochloromethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 6:09 | EEH |
| Bromodichloromethane | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 6:09 | EEH |
| Bromoform | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 6:09 | EEH |
| Bromomethane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 6:09 | EEH |
| 2-Butanone (MEK) | ND | 20 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 6:09 | EEH |
| tert-Butyl Alcohol (TBA) | ND | 20 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 6:09 | EEH |
| n-Butylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 6:09 | EEH |
| sec-Butylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 6:09 | EEH |
| tert-Butylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 6:09 | EEH |
| tert-Butyl Ethyl Ether (TBEE) | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 6:09 | EEH |
| Carbon Disulfide | ND | 4.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 6:09 | EEH |
| Carbon Tetrachloride | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 6:09 | EEH |
| Chlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 6:09 | EEH |
| Chlorodibromomethane | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 6:09 | EEH |
| Chloroethane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 6:09 | EEH |
| Chloroform | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 6:09 | EEH |
| Chloromethane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 6:09 | EEH |
| 2-Chlorotoluene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 6:09 | EEH |
| 4-Chlorotoluene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 6:09 | EEH |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 6:09 | EEH |
| 1,2-Dibromoethane (EDB) | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 6:09 | EEH |
| Dibromomethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 6:09 | EEH |
| 1,2-Dichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 6:09 | EEH |
| 1,3-Dichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 6:09 | EEH |
| 1,4-Dichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 6:09 | EEH |
| trans-1,4-Dichloro-2-butene | ND | 2.0 | µg/L | 1 | V-05 | SW-846 8260C | 2/18/16 | 2/20/16 6:09 | EEH |
| Dichlorodifluoromethane (Freon 12) | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 6:09 | EEH |
| 1,1-Dichloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 6:09 | EEH |
| 1,2-Dichloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 6:09 | EEH |
| 1,1-Dichloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 6:09 | EEH |
| cis-1,2-Dichloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 6:09 | EEH |
| trans-1,2-Dichloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 6:09 | EEH |
| 1,2-Dichloropropane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 6:09 | EEH |
| 1,3-Dichloropropane | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 6:09 | EEH |
| 2,2-Dichloropropane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 6:09 | EEH |
| 1,1-Dichloropropene | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 6:09 | EEH |
| cis-1,3-Dichloropropene | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 6:09 | EEH |
| trans-1,3-Dichloropropene | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 6:09 | EEH |
| Diethyl Ether | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 6:09 | EEH |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0629

Date Received: 2/15/2016

Field Sample #: CMW-07

Sampled: 2/12/2016 11:15

Sample ID: 16B0629-07

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---------------------------------------------------|---------|------|-------|----------|-----------|--------------|---------------|--------------------|---------|
| Diisopropyl Ether (DIPE) | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 6:09 | EEH |
| 1,4-Dioxane | ND | 50 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 6:09 | EEH |
| Ethylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 6:09 | EEH |
| Hexachlorobutadiene | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 6:09 | EEH |
| 2-Hexanone (MBK) | ND | 10 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 6:09 | EEH |
| Isopropylbenzene (Cumene) | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 6:09 | EEH |
| p-Isopropyltoluene (p-Cymene) | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 6:09 | EEH |
| Methyl tert-Butyl Ether (MTBE) | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 6:09 | EEH |
| Methylene Chloride | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 6:09 | EEH |
| 4-Methyl-2-pentanone (MIBK) | ND | 10 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 6:09 | EEH |
| Naphthalene | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 6:09 | EEH |
| n-Propylbenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 6:09 | EEH |
| Styrene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 6:09 | EEH |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 6:09 | EEH |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 6:09 | EEH |
| Tetrachloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 6:09 | EEH |
| Tetrahydrofuran | ND | 10 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 6:09 | EEH |
| Toluene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 6:09 | EEH |
| 1,2,3-Trichlorobenzene | ND | 5.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 6:09 | EEH |
| 1,2,4-Trichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 6:09 | EEH |
| 1,3,5-Trichlorobenzene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 6:09 | EEH |
| 1,1,1-Trichloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 6:09 | EEH |
| 1,1,2-Trichloroethane | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 6:09 | EEH |
| Trichloroethylene | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 6:09 | EEH |
| Trichlorofluoromethane (Freon 11) | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 6:09 | EEH |
| 1,2,3-Trichloropropane | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 6:09 | EEH |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | ND | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 6:09 | EEH |
| 1,2,4-Trimethylbenzene | 5.9 | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 6:09 | EEH |
| 1,3,5-Trimethylbenzene | 2.3 | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 6:09 | EEH |
| Vinyl Chloride | ND | 2.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 6:09 | EEH |
| m+p Xylene | 2.1 | 2.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 6:09 | EEH |
| o-Xylene | 2.2 | 1.0 | µg/L | 1 | | SW-846 8260C | 2/18/16 | 2/20/16 6:09 | EEH |

| Surrogates | % Recovery | Recovery Limits | Flag/Qual |
|-----------------------|------------|-----------------|--------------|
| 1,2-Dichloroethane-d4 | 97.9 | 70-130 | 2/20/16 6:09 |
| Toluene-d8 | 98.4 | 70-130 | 2/20/16 6:09 |
| 4-Bromofluorobenzene | 100 | 70-130 | 2/20/16 6:09 |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0629

Date Received: 2/15/2016

Field Sample #: CMW-07

Sampled: 2/12/2016 11:15

Sample ID: 16B0629-07

Sample Matrix: Ground Water

Petroleum Hydrocarbons Analyses

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|--------------|------------|------|-----------------|----------|-----------|----------------------|---------------|--------------------|---------|
| TPH (C9-C36) | 0.96 | 0.20 | mg/L | 1 | | SW-846 8100 Modified | 2/16/16 | 2/17/16 13:21 | SCS |
| Surrogates | % Recovery | | Recovery Limits | | Flag/Qual | | | | |
| o-Terphenyl | 86.0 | | 40-140 | | | | | 2/17/16 13:21 | |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0629

Date Received: 2/15/2016

Field Sample #: CMW-07

Sampled: 2/12/2016 11:15

Sample ID: 16B0629-07

Sample Matrix: Ground Water

Metals Analyses (Total)

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|----------|---------|---------|-------|----------|-----------|--------------|---------------|--------------------|---------|
| Arsenic | 13 | 2.0 | µg/L | 5 | | SW-846 6020A | 2/16/16 | 2/17/16 12:22 | MJH |
| Barium | 880 | 50 | µg/L | 5 | | SW-846 6020A | 2/16/16 | 2/17/16 12:22 | MJH |
| Cadmium | ND | 2.5 | µg/L | 5 | | SW-846 6020A | 2/16/16 | 2/17/16 12:22 | MJH |
| Chromium | ND | 5.0 | µg/L | 5 | | SW-846 6020A | 2/16/16 | 2/17/16 12:22 | MJH |
| Lead | 8.0 | 5.0 | µg/L | 5 | | SW-846 6020A | 2/16/16 | 2/17/16 12:22 | MJH |
| Mercury | ND | 0.00010 | mg/L | 1 | | SW-846 7470A | 2/17/16 | 2/19/16 9:35 | SCB |
| Selenium | ND | 25 | µg/L | 5 | | SW-846 6020A | 2/16/16 | 2/17/16 12:22 | MJH |
| Silver | ND | 2.5 | µg/L | 5 | | SW-846 6020A | 2/16/16 | 2/17/16 12:22 | MJH |

Sample Extraction Data

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

| Lab Number [Field ID] | Batch | Initial [mL] | Final [mL] | Date |
|-----------------------|---------|--------------|------------|----------|
| 16B0629-01 [CMW-01] | B142264 | 50.0 | 50.0 | 02/16/16 |
| 16B0629-02 [CMW-02] | B142264 | 50.0 | 50.0 | 02/16/16 |
| 16B0629-03 [CMW-03] | B142264 | 50.0 | 50.0 | 02/16/16 |
| 16B0629-04 [CMW-04] | B142264 | 50.0 | 50.0 | 02/16/16 |
| 16B0629-05 [CMW-05] | B142264 | 50.0 | 50.0 | 02/16/16 |
| 16B0629-06 [CMW-06] | B142264 | 50.0 | 50.0 | 02/16/16 |
| 16B0629-07 [CMW-07] | B142264 | 50.0 | 50.0 | 02/16/16 |

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

| Lab Number [Field ID] | Batch | Initial [mL] | Final [mL] | Date |
|-----------------------|---------|--------------|------------|----------|
| 16B0629-01 [CMW-01] | B142144 | 6.00 | 6.00 | 02/17/16 |
| 16B0629-02 [CMW-02] | B142144 | 6.00 | 6.00 | 02/17/16 |
| 16B0629-03 [CMW-03] | B142144 | 6.00 | 6.00 | 02/17/16 |
| 16B0629-04 [CMW-04] | B142144 | 6.00 | 6.00 | 02/17/16 |
| 16B0629-05 [CMW-05] | B142144 | 6.00 | 6.00 | 02/17/16 |
| 16B0629-06 [CMW-06] | B142144 | 6.00 | 6.00 | 02/17/16 |
| 16B0629-07 [CMW-07] | B142144 | 6.00 | 6.00 | 02/17/16 |

Prep Method: SW-846 3510C-SW-846 8100 Modified

| Lab Number [Field ID] | Batch | Initial [mL] | Final [mL] | Date |
|-----------------------|---------|--------------|------------|----------|
| 16B0629-01 [CMW-01] | B142209 | 1000 | 1.00 | 02/16/16 |
| 16B0629-02 [CMW-02] | B142209 | 1000 | 1.00 | 02/16/16 |
| 16B0629-03 [CMW-03] | B142209 | 1000 | 1.00 | 02/16/16 |
| 16B0629-04 [CMW-04] | B142209 | 1000 | 1.00 | 02/16/16 |
| 16B0629-05 [CMW-05] | B142209 | 1000 | 1.00 | 02/16/16 |
| 16B0629-06 [CMW-06] | B142209 | 1000 | 1.00 | 02/16/16 |
| 16B0629-07 [CMW-07] | B142209 | 1000 | 1.00 | 02/16/16 |

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

| Lab Number [Field ID] | Batch | Initial [mL] | Final [mL] | Date |
|-----------------------|---------|--------------|------------|----------|
| 16B0629-01 [CMW-01] | B142422 | 5 | 5.00 | 02/18/16 |
| 16B0629-02 [CMW-02] | B142422 | 5 | 5.00 | 02/18/16 |
| 16B0629-03 [CMW-03] | B142422 | 5 | 5.00 | 02/18/16 |
| 16B0629-04 [CMW-04] | B142422 | 5 | 5.00 | 02/18/16 |
| 16B0629-05 [CMW-05] | B142422 | 5 | 5.00 | 02/18/16 |
| 16B0629-06 [CMW-06] | B142422 | 5 | 5.00 | 02/18/16 |
| 16B0629-07 [CMW-07] | B142422 | 5 | 5.00 | 02/18/16 |

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

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

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

Batch B142422 - SW-846 5030B

Blank (B142422-BLK1)

Prepared: 02/18/16 Analyzed: 02/20/16

| | | | | | | | | | | |
|------------------------------------|----|------|------|--|--|--|--|--|--|------|
| Acetone | ND | 50 | µg/L | | | | | | | |
| Acrylonitrile | ND | 5.0 | 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 | 0.50 | µg/L | | | | | | | |
| Bromoform | ND | 1.0 | µg/L | | | | | | | |
| Bromomethane | ND | 2.0 | µg/L | | | | | | | |
| 2-Butanone (MEK) | ND | 20 | µg/L | | | | | | | |
| tert-Butyl Alcohol (TBA) | ND | 20 | 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 | 4.0 | µg/L | | | | | | | |
| Carbon Tetrachloride | ND | 5.0 | µg/L | | | | | | | |
| Chlorobenzene | ND | 1.0 | µg/L | | | | | | | |
| Chlorodibromomethane | ND | 0.50 | µg/L | | | | | | | |
| Chloroethane | ND | 2.0 | µg/L | | | | | | | |
| Chloroform | ND | 2.0 | µg/L | | | | | | | |
| Chloromethane | ND | 2.0 | µg/L | | | | | | | |
| 2-Chlorotoluene | ND | 1.0 | µg/L | | | | | | | |
| 4-Chlorotoluene | ND | 1.0 | µg/L | | | | | | | |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 5.0 | 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 | | | | | | | |
| trans-1,4-Dichloro-2-butene | ND | 2.0 | µg/L | | | | | | | V-05 |
| 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 | 2.0 | µg/L | | | | | | | |
| cis-1,3-Dichloropropene | ND | 0.50 | µg/L | | | | | | | |
| trans-1,3-Dichloropropene | ND | 0.50 | µg/L | | | | | | | |
| Diethyl Ether | ND | 2.0 | µg/L | | | | | | | |
| Diisopropyl Ether (DIPE) | ND | 0.50 | µg/L | | | | | | | |
| 1,4-Dioxane | ND | 50 | µg/L | | | | | | | |
| Ethylbenzene | ND | 1.0 | µg/L | | | | | | | |
| Hexachlorobutadiene | ND | 0.50 | µg/L | | | | | | | |
| 2-Hexanone (MBK) | ND | 10 | µg/L | | | | | | | |
| Isopropylbenzene (Cumene) | ND | 1.0 | µg/L | | | | | | | |
| p-Isopropyltoluene (p-Cymene) | ND | 1.0 | µg/L | | | | | | | |
| Methyl tert-Butyl Ether (MTBE) | ND | 1.0 | µg/L | | | | | | | |

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

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

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

Batch B142422 - SW-846 5030B

Blank (B142422-BLK1)

Prepared: 02/18/16 Analyzed: 02/20/16

| | | | | | | | | | | |
|---------------------------------------------------|------|------|------|------|--|------|--------|--|--|--|
| Methylene Chloride | ND | 5.0 | µg/L | | | | | | | |
| 4-Methyl-2-pentanone (MIBK) | ND | 10 | µg/L | | | | | | | |
| Naphthalene | ND | 2.0 | µg/L | | | | | | | |
| 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 | 10 | µg/L | | | | | | | |
| Toluene | ND | 1.0 | µg/L | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 5.0 | µg/L | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 1.0 | µg/L | | | | | | | |
| 1,3,5-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 | | | | | | | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | ND | 1.0 | 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 | 24.4 | | µg/L | 25.0 | | 97.6 | 70-130 | | | |
| Surrogate: Toluene-d8 | 24.4 | | µg/L | 25.0 | | 97.5 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 25.1 | | µg/L | 25.0 | | 100 | 70-130 | | | |

LCS (B142422-BS1)

Prepared: 02/18/16 Analyzed: 02/20/16

| | | | | | | | | | | |
|-------------------------------|------|------|------|------|--|-------|--------|--|------------|---|
| Acetone | 86.1 | 50 | µg/L | 100 | | 86.1 | 70-160 | | | † |
| Acrylonitrile | 12.2 | 5.0 | µg/L | 10.0 | | 122 | 70-130 | | | |
| tert-Amyl Methyl Ether (TAME) | 10.4 | 0.50 | µg/L | 10.0 | | 104 | 70-130 | | | |
| Benzene | 11.1 | 1.0 | µg/L | 10.0 | | 111 | 70-130 | | | |
| Bromobenzene | 11.7 | 1.0 | µg/L | 10.0 | | 117 | 70-130 | | | |
| Bromochloromethane | 11.9 | 1.0 | µg/L | 10.0 | | 119 | 70-130 | | | |
| Bromodichloromethane | 11.2 | 0.50 | µg/L | 10.0 | | 112 | 70-130 | | | |
| Bromoform | 10.5 | 1.0 | µg/L | 10.0 | | 105 | 70-130 | | | |
| Bromomethane | 9.32 | 2.0 | µg/L | 10.0 | | 93.2 | 40-160 | | V-20 | † |
| 2-Butanone (MEK) | 77.2 | 20 | µg/L | 100 | | 77.2 | 40-160 | | | † |
| tert-Butyl Alcohol (TBA) | 101 | 20 | µg/L | 100 | | 101 | 40-160 | | | † |
| n-Butylbenzene | 10.6 | 1.0 | µg/L | 10.0 | | 106 | 70-130 | | | |
| sec-Butylbenzene | 10.8 | 1.0 | µg/L | 10.0 | | 108 | 70-130 | | | |
| tert-Butylbenzene | 10.5 | 1.0 | µg/L | 10.0 | | 105 | 70-130 | | | |
| tert-Butyl Ethyl Ether (TBEE) | 10.5 | 0.50 | µg/L | 10.0 | | 105 | 70-130 | | | |
| Carbon Disulfide | 10.8 | 4.0 | µg/L | 10.0 | | 108 | 70-130 | | | |
| Carbon Tetrachloride | 10.2 | 5.0 | µg/L | 10.0 | | 102 | 70-130 | | | |
| Chlorobenzene | 11.5 | 1.0 | µg/L | 10.0 | | 115 | 70-130 | | | |
| Chlorodibromomethane | 11.2 | 0.50 | µg/L | 10.0 | | 112 | 70-130 | | | |
| Chloroethane | 14.0 | 2.0 | µg/L | 10.0 | | 140 * | 70-130 | | L-02, V-20 | |
| Chloroform | 11.4 | 2.0 | µg/L | 10.0 | | 114 | 70-130 | | | |
| Chloromethane | 11.1 | 2.0 | µg/L | 10.0 | | 111 | 40-160 | | V-20 | † |
| 2-Chlorotoluene | 11.4 | 1.0 | µg/L | 10.0 | | 114 | 70-130 | | | |

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

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------------------------------------------------|--------|-----------------|-------|-------------|---------------------------------------|--------------|-------------|-----|-----------|------------|
| Batch B142422 - SW-846 5030B | | | | | | | | | | |
| LCS (B142422-BS1) | | | | | | | | | | |
| | | | | | Prepared: 02/18/16 Analyzed: 02/20/16 | | | | | |
| 4-Chlorotoluene | 11.4 | 1.0 | µg/L | 10.0 | | 114 | 70-130 | | | |
| 1,2-Dibromo-3-chloropropane (DBCP) | 8.31 | 5.0 | µg/L | 10.0 | | 83.1 | 70-130 | | | |
| 1,2-Dibromoethane (EDB) | 12.2 | 0.50 | µg/L | 10.0 | | 122 | 70-130 | | | |
| Dibromomethane | 12.4 | 1.0 | µg/L | 10.0 | | 124 | 70-130 | | | |
| 1,2-Dichlorobenzene | 11.1 | 1.0 | µg/L | 10.0 | | 111 | 70-130 | | | |
| 1,3-Dichlorobenzene | 11.3 | 1.0 | µg/L | 10.0 | | 113 | 70-130 | | | |
| 1,4-Dichlorobenzene | 11.1 | 1.0 | µg/L | 10.0 | | 111 | 70-130 | | | |
| trans-1,4-Dichloro-2-butene | 7.92 | 2.0 | µg/L | 10.0 | | 79.2 | 70-130 | | | V-05 |
| Dichlorodifluoromethane (Freon 12) | 6.05 | 2.0 | µg/L | 10.0 | | 60.5 | 40-160 | | | † |
| 1,1-Dichloroethane | 11.1 | 1.0 | µg/L | 10.0 | | 111 | 70-130 | | | |
| 1,2-Dichloroethane | 10.8 | 1.0 | µg/L | 10.0 | | 108 | 70-130 | | | |
| 1,1-Dichloroethylene | 11.5 | 1.0 | µg/L | 10.0 | | 115 | 70-130 | | | |
| cis-1,2-Dichloroethylene | 10.5 | 1.0 | µg/L | 10.0 | | 105 | 70-130 | | | |
| trans-1,2-Dichloroethylene | 10.3 | 1.0 | µg/L | 10.0 | | 103 | 70-130 | | | |
| 1,2-Dichloropropane | 10.6 | 1.0 | µg/L | 10.0 | | 106 | 70-130 | | | |
| 1,3-Dichloropropane | 11.5 | 0.50 | µg/L | 10.0 | | 115 | 70-130 | | | |
| 2,2-Dichloropropane | 8.02 | 1.0 | µg/L | 10.0 | | 80.2 | 40-130 | | | † |
| 1,1-Dichloropropene | 10.2 | 2.0 | µg/L | 10.0 | | 102 | 70-130 | | | |
| cis-1,3-Dichloropropene | 9.69 | 0.50 | µg/L | 10.0 | | 96.9 | 70-130 | | | |
| trans-1,3-Dichloropropene | 10.2 | 0.50 | µg/L | 10.0 | | 102 | 70-130 | | | |
| Diethyl Ether | 14.8 | 2.0 | µg/L | 10.0 | | 148 * | 70-130 | | | L-02, V-20 |
| Diisopropyl Ether (DIPE) | 8.94 | 0.50 | µg/L | 10.0 | | 89.4 | 70-130 | | | |
| 1,4-Dioxane | 81.9 | 50 | µg/L | 100 | | 81.9 | 40-130 | | | † |
| Ethylbenzene | 11.5 | 1.0 | µg/L | 10.0 | | 115 | 70-130 | | | |
| Hexachlorobutadiene | 10.6 | 0.50 | µg/L | 10.0 | | 106 | 70-130 | | | |
| 2-Hexanone (MBK) | 78.6 | 10 | µg/L | 100 | | 78.6 | 70-160 | | | † |
| Isopropylbenzene (Cumene) | 11.2 | 1.0 | µg/L | 10.0 | | 112 | 70-130 | | | |
| p-Isopropyltoluene (p-Cymene) | 11.5 | 1.0 | µg/L | 10.0 | | 115 | 70-130 | | | |
| Methyl tert-Butyl Ether (MTBE) | 10.4 | 1.0 | µg/L | 10.0 | | 104 | 70-130 | | | |
| Methylene Chloride | 12.9 | 5.0 | µg/L | 10.0 | | 129 | 70-130 | | | |
| 4-Methyl-2-pentanone (MIBK) | 84.4 | 10 | µg/L | 100 | | 84.4 | 70-160 | | | † |
| Naphthalene | 11.2 | 2.0 | µg/L | 10.0 | | 112 | 40-130 | | | † |
| n-Propylbenzene | 11.5 | 1.0 | µg/L | 10.0 | | 115 | 70-130 | | | |
| Styrene | 12.4 | 1.0 | µg/L | 10.0 | | 124 | 70-130 | | | |
| 1,1,1,2-Tetrachloroethane | 11.7 | 1.0 | µg/L | 10.0 | | 117 | 70-130 | | | |
| 1,1,2,2-Tetrachloroethane | 11.6 | 0.50 | µg/L | 10.0 | | 116 | 70-130 | | | |
| Tetrachloroethylene | 10.8 | 1.0 | µg/L | 10.0 | | 108 | 70-130 | | | |
| Tetrahydrofuran | 9.03 | 10 | µg/L | 10.0 | | 90.3 | 70-130 | | | |
| Toluene | 11.6 | 1.0 | µg/L | 10.0 | | 116 | 70-130 | | | |
| 1,2,3-Trichlorobenzene | 12.4 | 5.0 | µg/L | 10.0 | | 124 | 70-130 | | | |
| 1,2,4-Trichlorobenzene | 12.6 | 1.0 | µg/L | 10.0 | | 126 | 70-130 | | | |
| 1,3,5-Trichlorobenzene | 11.2 | 1.0 | µg/L | 10.0 | | 112 | 70-130 | | | |
| 1,1,1-Trichloroethane | 9.90 | 1.0 | µg/L | 10.0 | | 99.0 | 70-130 | | | |
| 1,1,2-Trichloroethane | 12.4 | 1.0 | µg/L | 10.0 | | 124 | 70-130 | | | |
| Trichloroethylene | 11.5 | 1.0 | µg/L | 10.0 | | 115 | 70-130 | | | |
| Trichlorofluoromethane (Freon 11) | 10.6 | 2.0 | µg/L | 10.0 | | 106 | 70-130 | | | |
| 1,2,3-Trichloropropane | 11.2 | 2.0 | µg/L | 10.0 | | 112 | 70-130 | | | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | 11.2 | 1.0 | µg/L | 10.0 | | 112 | 70-130 | | | |
| 1,2,4-Trimethylbenzene | 11.3 | 1.0 | µg/L | 10.0 | | 113 | 70-130 | | | |
| 1,3,5-Trimethylbenzene | 12.2 | 1.0 | µg/L | 10.0 | | 122 | 70-130 | | | |
| Vinyl Chloride | 11.0 | 2.0 | µg/L | 10.0 | | 110 | 40-160 | | | † |

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

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|-------------------------------------|--------|-----------------|-------|-------------|---------------------------------------|--------------|-------------|--------|-----------|------------|
| Batch B142422 - SW-846 5030B | | | | | | | | | | |
| LCS (B142422-BS1) | | | | | | | | | | |
| | | | | | Prepared: 02/18/16 Analyzed: 02/20/16 | | | | | |
| m+p Xylene | 23.1 | 2.0 | µg/L | 20.0 | | 115 | 70-130 | | | |
| o-Xylene | 11.7 | 1.0 | µg/L | 10.0 | | 117 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 25.1 | | µg/L | 25.0 | | 101 | 70-130 | | | |
| Surrogate: Toluene-d8 | 24.5 | | µg/L | 25.0 | | 97.9 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 24.9 | | µg/L | 25.0 | | 99.6 | 70-130 | | | |
| LCS Dup (B142422-BSD1) | | | | | | | | | | |
| | | | | | Prepared: 02/18/16 Analyzed: 02/20/16 | | | | | |
| Acetone | 93.9 | 50 | µg/L | 100 | | 93.9 | 70-160 | 8.64 | 25 | † |
| Acrylonitrile | 12.8 | 5.0 | µg/L | 10.0 | | 128 | 70-130 | 4.08 | 25 | |
| tert-Amyl Methyl Ether (TAME) | 10.4 | 0.50 | µg/L | 10.0 | | 104 | 70-130 | 0.0965 | 25 | |
| Benzene | 11.3 | 1.0 | µg/L | 10.0 | | 113 | 70-130 | 2.05 | 25 | |
| Bromobenzene | 11.9 | 1.0 | µg/L | 10.0 | | 119 | 70-130 | 1.19 | 25 | |
| Bromochloromethane | 11.7 | 1.0 | µg/L | 10.0 | | 117 | 70-130 | 1.61 | 25 | |
| Bromodichloromethane | 11.0 | 0.50 | µg/L | 10.0 | | 110 | 70-130 | 2.16 | 25 | |
| Bromoform | 11.1 | 1.0 | µg/L | 10.0 | | 111 | 70-130 | 5.46 | 25 | |
| Bromomethane | 11.2 | 2.0 | µg/L | 10.0 | | 112 | 40-160 | 18.3 | 25 | V-20 † |
| 2-Butanone (MEK) | 85.3 | 20 | µg/L | 100 | | 85.3 | 40-160 | 10.0 | 25 | † |
| tert-Butyl Alcohol (TBA) | 114 | 20 | µg/L | 100 | | 114 | 40-160 | 11.8 | 25 | † |
| n-Butylbenzene | 10.8 | 1.0 | µg/L | 10.0 | | 108 | 70-130 | 1.50 | 25 | |
| sec-Butylbenzene | 11.1 | 1.0 | µg/L | 10.0 | | 111 | 70-130 | 2.56 | 25 | |
| tert-Butylbenzene | 10.5 | 1.0 | µg/L | 10.0 | | 105 | 70-130 | 0.572 | 25 | |
| tert-Butyl Ethyl Ether (TBEE) | 10.5 | 0.50 | µg/L | 10.0 | | 105 | 70-130 | 0.00 | 25 | |
| Carbon Disulfide | 11.0 | 4.0 | µg/L | 10.0 | | 110 | 70-130 | 1.56 | 25 | |
| Carbon Tetrachloride | 10.3 | 5.0 | µg/L | 10.0 | | 103 | 70-130 | 0.685 | 25 | |
| Chlorobenzene | 11.8 | 1.0 | µg/L | 10.0 | | 118 | 70-130 | 2.66 | 25 | |
| Chlorodibromomethane | 10.8 | 0.50 | µg/L | 10.0 | | 108 | 70-130 | 3.99 | 25 | |
| Chloroethane | 14.8 | 2.0 | µg/L | 10.0 | | 148 * | 70-130 | 5.35 | 25 | L-02, V-20 |
| Chloroform | 11.5 | 2.0 | µg/L | 10.0 | | 115 | 70-130 | 0.525 | 25 | |
| Chloromethane | 11.1 | 2.0 | µg/L | 10.0 | | 111 | 40-160 | 0.181 | 25 | V-20 † |
| 2-Chlorotoluene | 11.9 | 1.0 | µg/L | 10.0 | | 119 | 70-130 | 4.20 | 25 | |
| 4-Chlorotoluene | 11.6 | 1.0 | µg/L | 10.0 | | 116 | 70-130 | 1.73 | 25 | |
| 1,2-Dibromo-3-chloropropane (DBCP) | 9.53 | 5.0 | µg/L | 10.0 | | 95.3 | 70-130 | 13.7 | 25 | |
| 1,2-Dibromoethane (EDB) | 12.2 | 0.50 | µg/L | 10.0 | | 122 | 70-130 | 0.0817 | 25 | |
| Dibromomethane | 12.3 | 1.0 | µg/L | 10.0 | | 123 | 70-130 | 0.730 | 25 | |
| 1,2-Dichlorobenzene | 11.2 | 1.0 | µg/L | 10.0 | | 112 | 70-130 | 0.717 | 25 | |
| 1,3-Dichlorobenzene | 11.3 | 1.0 | µg/L | 10.0 | | 113 | 70-130 | 0.708 | 25 | |
| 1,4-Dichlorobenzene | 11.0 | 1.0 | µg/L | 10.0 | | 110 | 70-130 | 0.0905 | 25 | |
| trans-1,4-Dichloro-2-butene | 8.72 | 2.0 | µg/L | 10.0 | | 87.2 | 70-130 | 9.62 | 25 | V-05 |
| Dichlorodifluoromethane (Freon 12) | 6.13 | 2.0 | µg/L | 10.0 | | 61.3 | 40-160 | 1.31 | 25 | † |
| 1,1-Dichloroethane | 11.0 | 1.0 | µg/L | 10.0 | | 110 | 70-130 | 1.18 | 25 | |
| 1,2-Dichloroethane | 10.9 | 1.0 | µg/L | 10.0 | | 109 | 70-130 | 0.184 | 25 | |
| 1,1-Dichloroethylene | 11.6 | 1.0 | µg/L | 10.0 | | 116 | 70-130 | 1.38 | 25 | |
| cis-1,2-Dichloroethylene | 10.4 | 1.0 | µg/L | 10.0 | | 104 | 70-130 | 0.668 | 25 | |
| trans-1,2-Dichloroethylene | 10.3 | 1.0 | µg/L | 10.0 | | 103 | 70-130 | 0.00 | 25 | |
| 1,2-Dichloropropane | 11.2 | 1.0 | µg/L | 10.0 | | 112 | 70-130 | 5.04 | 25 | |
| 1,3-Dichloropropane | 11.2 | 0.50 | µg/L | 10.0 | | 112 | 70-130 | 2.81 | 25 | |
| 2,2-Dichloropropane | 7.96 | 1.0 | µg/L | 10.0 | | 79.6 | 40-130 | 0.751 | 25 | † |
| 1,1-Dichloropropene | 10.3 | 2.0 | µg/L | 10.0 | | 103 | 70-130 | 1.37 | 25 | |
| cis-1,3-Dichloropropene | 9.80 | 0.50 | µg/L | 10.0 | | 98.0 | 70-130 | 1.13 | 25 | |
| trans-1,3-Dichloropropene | 10.0 | 0.50 | µg/L | 10.0 | | 100 | 70-130 | 2.17 | 25 | |
| Diethyl Ether | 14.6 | 2.0 | µg/L | 10.0 | | 146 * | 70-130 | 1.09 | 25 | L-02, V-20 |
| Diisopropyl Ether (DIPE) | 9.26 | 0.50 | µg/L | 10.0 | | 92.6 | 70-130 | 3.52 | 25 | |

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

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

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

Batch B142422 - SW-846 5030B

LCS Dup (B142422-BSD1)

Prepared: 02/18/16 Analyzed: 02/20/16

| | | | | | | | | | | |
|---------------------------------------------------|------|------|------|------|--|------|--------|--------|----|-----|
| 1,4-Dioxane | 92.8 | 50 | µg/L | 100 | | 92.8 | 40-130 | 12.5 | 50 | † ‡ |
| Ethylbenzene | 11.8 | 1.0 | µg/L | 10.0 | | 118 | 70-130 | 2.75 | 25 | |
| Hexachlorobutadiene | 10.9 | 0.50 | µg/L | 10.0 | | 109 | 70-130 | 2.42 | 25 | |
| 2-Hexanone (MBK) | 85.2 | 10 | µg/L | 100 | | 85.2 | 70-160 | 8.11 | 25 | † |
| Isopropylbenzene (Cumene) | 11.4 | 1.0 | µg/L | 10.0 | | 114 | 70-130 | 0.885 | 25 | |
| p-Isopropyltoluene (p-Cymene) | 11.8 | 1.0 | µg/L | 10.0 | | 118 | 70-130 | 2.50 | 25 | |
| Methyl tert-Butyl Ether (MTBE) | 10.5 | 1.0 | µg/L | 10.0 | | 105 | 70-130 | 1.43 | 25 | |
| Methylene Chloride | 12.8 | 5.0 | µg/L | 10.0 | | 128 | 70-130 | 0.854 | 25 | |
| 4-Methyl-2-pentanone (MIBK) | 89.6 | 10 | µg/L | 100 | | 89.6 | 70-160 | 5.96 | 25 | † |
| Naphthalene | 12.1 | 2.0 | µg/L | 10.0 | | 121 | 40-130 | 7.30 | 25 | † |
| n-Propylbenzene | 11.5 | 1.0 | µg/L | 10.0 | | 115 | 70-130 | 0.173 | 25 | |
| Styrene | 12.3 | 1.0 | µg/L | 10.0 | | 123 | 70-130 | 0.243 | 25 | |
| 1,1,1,2-Tetrachloroethane | 11.9 | 1.0 | µg/L | 10.0 | | 119 | 70-130 | 1.95 | 25 | |
| 1,1,2,2-Tetrachloroethane | 12.0 | 0.50 | µg/L | 10.0 | | 120 | 70-130 | 3.74 | 25 | |
| Tetrachloroethylene | 11.0 | 1.0 | µg/L | 10.0 | | 110 | 70-130 | 1.92 | 25 | |
| Tetrahydrofuran | 9.27 | 10 | µg/L | 10.0 | | 92.7 | 70-130 | 2.62 | 25 | |
| Toluene | 11.5 | 1.0 | µg/L | 10.0 | | 115 | 70-130 | 0.434 | 25 | |
| 1,2,3-Trichlorobenzene | 12.9 | 5.0 | µg/L | 10.0 | | 129 | 70-130 | 3.79 | 25 | |
| 1,2,4-Trichlorobenzene | 12.6 | 1.0 | µg/L | 10.0 | | 126 | 70-130 | 0.159 | 25 | |
| 1,3,5-Trichlorobenzene | 11.2 | 1.0 | µg/L | 10.0 | | 112 | 70-130 | 0.0892 | 25 | |
| 1,1,1-Trichloroethane | 9.94 | 1.0 | µg/L | 10.0 | | 99.4 | 70-130 | 0.403 | 25 | |
| 1,1,2-Trichloroethane | 11.9 | 1.0 | µg/L | 10.0 | | 119 | 70-130 | 3.46 | 25 | |
| Trichloroethylene | 11.6 | 1.0 | µg/L | 10.0 | | 116 | 70-130 | 0.778 | 25 | |
| Trichlorofluoromethane (Freon 11) | 10.6 | 2.0 | µg/L | 10.0 | | 106 | 70-130 | 0.471 | 25 | |
| 1,2,3-Trichloropropane | 11.9 | 2.0 | µg/L | 10.0 | | 119 | 70-130 | 6.40 | 25 | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | 11.4 | 1.0 | µg/L | 10.0 | | 114 | 70-130 | 1.69 | 25 | |
| 1,2,4-Trimethylbenzene | 11.5 | 1.0 | µg/L | 10.0 | | 115 | 70-130 | 2.28 | 25 | |
| 1,3,5-Trimethylbenzene | 12.4 | 1.0 | µg/L | 10.0 | | 124 | 70-130 | 1.55 | 25 | |
| Vinyl Chloride | 10.6 | 2.0 | µg/L | 10.0 | | 106 | 40-160 | 4.16 | 25 | † |
| m+p Xylene | 23.9 | 2.0 | µg/L | 20.0 | | 119 | 70-130 | 3.45 | 25 | |
| o-Xylene | 11.7 | 1.0 | µg/L | 10.0 | | 117 | 70-130 | 0.257 | 25 | |
| Surrogate: 1,2-Dichloroethane-d4 | 24.4 | | µg/L | 25.0 | | 97.8 | 70-130 | | | |
| Surrogate: Toluene-d8 | 24.6 | | µg/L | 25.0 | | 98.3 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 25.1 | | µg/L | 25.0 | | 101 | 70-130 | | | |

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|-------------------------------------|--------|-----------------|-------|-------------|---------------------------------------|------|-------------|------|-----------|-------|
| Batch B142209 - SW-846 3510C | | | | | | | | | | |
| Blank (B142209-BLK1) | | | | | | | | | | |
| | | | | | Prepared: 02/16/16 Analyzed: 02/17/16 | | | | | |
| TPH (C9-C36) | ND | 0.20 | mg/L | | | | | | | |
| Surrogate: o-Terphenyl | 0.0840 | | mg/L | 0.100 | | 84.0 | 40-140 | | | |
| LCS (B142209-BS1) | | | | | | | | | | |
| | | | | | Prepared: 02/16/16 Analyzed: 02/17/16 | | | | | |
| TPH (C9-C36) | 0.816 | 0.20 | mg/L | 1.00 | | 81.6 | 40-140 | | | |
| Surrogate: o-Terphenyl | 0.0980 | | mg/L | 0.100 | | 98.0 | 40-140 | | | |
| LCS Dup (B142209-BSD1) | | | | | | | | | | |
| | | | | | Prepared: 02/16/16 Analyzed: 02/17/16 | | | | | |
| TPH (C9-C36) | 0.874 | 0.20 | mg/L | 1.00 | | 87.4 | 40-140 | 6.94 | 30 | |
| Surrogate: o-Terphenyl | 0.102 | | mg/L | 0.100 | | 102 | 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 |
|------------------------------------------|---------|-----------------|-------|---------------------------------------|---------------|------|---------------------------------------|-------|-----------|-------|
| Batch B142144 - SW-846 7470A Prep | | | | | | | | | | |
| Blank (B142144-BLK1) | | | | Prepared: 02/17/16 Analyzed: 02/19/16 | | | | | | |
| Mercury | ND | 0.00010 | mg/L | | | | | | | |
| LCS (B142144-BS1) | | | | Prepared: 02/17/16 Analyzed: 02/19/16 | | | | | | |
| Mercury | 0.00215 | 0.00010 | mg/L | 0.00200 | | 108 | 80-120 | | | |
| LCS Dup (B142144-BSD1) | | | | Prepared: 02/17/16 Analyzed: 02/19/16 | | | | | | |
| Mercury | 0.00231 | 0.00010 | mg/L | 0.00200 | | 116 | 80-120 | 7.21 | 20 | |
| Batch B142264 - SW-846 3005A | | | | | | | | | | |
| Blank (B142264-BLK1) | | | | Prepared: 02/16/16 Analyzed: 02/17/16 | | | | | | |
| Arsenic | ND | 2.0 | µg/L | | | | | | | |
| Barium | ND | 50 | µg/L | | | | | | | |
| Cadmium | ND | 2.5 | µg/L | | | | | | | |
| Chromium | ND | 5.0 | µg/L | | | | | | | |
| Lead | ND | 5.0 | µg/L | | | | | | | |
| Selenium | ND | 25 | µg/L | | | | | | | |
| Silver | ND | 2.5 | µg/L | | | | | | | |
| LCS (B142264-BS1) | | | | Prepared: 02/16/16 Analyzed: 02/17/16 | | | | | | |
| Arsenic | 254 | 2.0 | µg/L | 250 | | 102 | 80-120 | | | |
| Barium | 250 | 50 | µg/L | 250 | | 100 | 80-120 | | | |
| Cadmium | 256 | 2.5 | µg/L | 250 | | 102 | 80-120 | | | |
| Chromium | 258 | 5.0 | µg/L | 250 | | 103 | 80-120 | | | |
| Lead | 255 | 5.0 | µg/L | 250 | | 102 | 80-120 | | | |
| Selenium | 258 | 25 | µg/L | 250 | | 103 | 80-120 | | | |
| Silver | 260 | 2.5 | µg/L | 250 | | 104 | 80-120 | | | |
| LCS Dup (B142264-BSD1) | | | | Prepared: 02/16/16 Analyzed: 02/17/16 | | | | | | |
| Arsenic | 248 | 2.0 | µg/L | 250 | | 99.3 | 80-120 | 2.16 | 20 | |
| Barium | 246 | 50 | µg/L | 250 | | 98.4 | 80-120 | 1.62 | 20 | |
| Cadmium | 253 | 2.5 | µg/L | 250 | | 101 | 80-120 | 1.06 | 20 | |
| Chromium | 255 | 5.0 | µg/L | 250 | | 102 | 80-120 | 1.11 | 20 | |
| Lead | 252 | 5.0 | µg/L | 250 | | 101 | 80-120 | 0.926 | 20 | |
| Selenium | 257 | 25 | µg/L | 250 | | 103 | 80-120 | 0.401 | 20 | |
| Silver | 258 | 2.5 | µg/L | 250 | | 103 | 80-120 | 0.926 | 20 | |
| Duplicate (B142264-DUP1) | | | | Source: 16B0629-01 | | | Prepared: 02/16/16 Analyzed: 02/17/16 | | | |
| Arsenic | 10.7 | 2.0 | µg/L | | 10.7 | | | 0.537 | 20 | |
| Barium | 389 | 50 | µg/L | | 392 | | | 0.689 | 20 | |
| Cadmium | ND | 2.5 | µg/L | | ND | | | NC | 20 | |
| Chromium | ND | 5.0 | µg/L | | ND | | | NC | 20 | |
| Lead | ND | 5.0 | µg/L | | ND | | | NC | 20 | |
| Selenium | ND | 25 | µg/L | | ND | | | NC | 20 | |
| Silver | ND | 2.5 | µg/L | | ND | | | NC | 20 | |

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

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

Batch B142264 - SW-846 3005A

Matrix Spike (B142264-MS1)

Source: 16B0629-01

Prepared: 02/16/16 Analyzed: 02/17/16

| | | | | | | | | | | |
|----------|-----|-----|------|-----|------|------|--------|--|--|--|
| Arsenic | 263 | 2.0 | µg/L | 250 | 10.7 | 101 | 75-125 | | | |
| Barium | 631 | 50 | µg/L | 250 | 392 | 95.6 | 75-125 | | | |
| Cadmium | 248 | 2.5 | µg/L | 250 | ND | 99.3 | 75-125 | | | |
| Chromium | 256 | 5.0 | µg/L | 250 | ND | 103 | 75-125 | | | |
| Lead | 259 | 5.0 | µg/L | 250 | 2.23 | 103 | 75-125 | | | |
| Selenium | 257 | 25 | µg/L | 250 | 5.49 | 101 | 75-125 | | | |
| Silver | 240 | 2.5 | µg/L | 250 | ND | 95.9 | 75-125 | | | |

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FLAG/QUALIFIER SUMMARY

| | |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| * | QC result is outside of established limits. |
| † | Wide recovery limits established for difficult compound. |
| ‡ | Wide RPD limits established for difficult compound. |
| # | Data exceeded client recommended or regulatory level |
| ND | Not Detected |
| RL | Reporting Limit |
| DL | Method Detection Limit |
| MCL | Maximum Contaminant Level |
| | Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded. |
| | No results have been blank subtracted unless specified in the case narrative section. |
| L-02 | Laboratory fortified blank/laboratory control sample recovery and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high side. |
| 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-20 | Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound. |

CERTIFICATIONS

Certified Analyses included in this Report

| Analyte | Certifications |
|------------------------------------|-------------------|
| <i>SW-846 6020A in Water</i> | |
| Arsenic | CT,NH,NY,ME,VA |
| Barium | CT,NH,NY,ME,VA |
| Cadmium | CT,NH,NY,RI,ME,VA |
| Chromium | CT,NH,NY,ME,VA |
| Lead | CT,NH,NY,ME,VA |
| Selenium | CT,NH,NY,ME,VA |
| Silver | CT,NH,NY,ME,VA |
| <i>SW-846 7470A in Water</i> | |
| Mercury | CT,NH,NY,NC,ME,VA |
| <i>SW-846 8260C in Water</i> | |
| Acetone | CT,NY,ME,NH,VA |
| Acrylonitrile | CT,NY,ME,NH,VA |
| tert-Amyl Methyl Ether (TAME) | NY,ME,NH,VA |
| Benzene | CT,NY,ME,NH,VA |
| Bromochloromethane | NY,ME,NH,VA |
| Bromodichloromethane | CT,NY,ME,NH,VA |
| Bromoform | CT,NY,ME,NH,VA |
| Bromomethane | CT,NY,ME,NH,VA |
| 2-Butanone (MEK) | CT,NY,ME,NH,VA |
| tert-Butyl Alcohol (TBA) | NY,ME,NH,VA |
| n-Butylbenzene | NY,ME,VA |
| sec-Butylbenzene | NY,ME,VA |
| tert-Butylbenzene | NY,ME,VA |
| tert-Butyl Ethyl Ether (TBEE) | NY,ME,NH,VA |
| Carbon Disulfide | CT,NY,ME,NH,VA |
| Carbon Tetrachloride | CT,NY,ME,NH,VA |
| Chlorobenzene | CT,NY,ME,NH,VA |
| Chlorodibromomethane | CT,NY,ME,NH,VA |
| Chloroethane | CT,NY,ME,NH,VA |
| Chloroform | CT,NY,ME,NH,VA |
| Chloromethane | CT,NY,ME,NH,VA |
| 2-Chlorotoluene | NY,ME,NH,VA |
| 4-Chlorotoluene | NY,ME,NH,VA |
| Dibromomethane | NY,ME,NH,VA |
| 1,2-Dichlorobenzene | CT,NY,ME,NH,VA |
| 1,3-Dichlorobenzene | CT,NY,ME,NH,VA |
| 1,4-Dichlorobenzene | CT,NY,ME,NH,VA |
| trans-1,4-Dichloro-2-butene | NY,ME,NH,VA |
| Dichlorodifluoromethane (Freon 12) | NY,ME,NH,VA |
| 1,1-Dichloroethane | CT,NY,ME,NH,VA |
| 1,2-Dichloroethane | CT,NY,ME,NH,VA |
| 1,1-Dichloroethylene | CT,NY,ME,NH,VA |
| cis-1,2-Dichloroethylene | NY,ME |
| trans-1,2-Dichloroethylene | CT,NY,ME,NH,VA |
| 1,2-Dichloropropane | CT,NY,ME,NH,VA |
| 1,3-Dichloropropane | NY,ME,VA |

CERTIFICATIONS

Certified Analyses included in this Report

| Analyte | Certifications |
|---------------------------------------------------|----------------|
| <i>SW-846 8260C in Water</i> | |
| 2,2-Dichloropropane | NY,ME,NH,VA |
| 1,1-Dichloropropene | NY,ME,NH,VA |
| cis-1,3-Dichloropropene | CT,NY,ME,NH,VA |
| trans-1,3-Dichloropropene | CT,NY,ME,NH,VA |
| Diisopropyl Ether (DIPE) | NY,ME,NH,VA |
| Ethylbenzene | CT,NY,ME,NH,VA |
| Hexachlorobutadiene | CT,NY,ME,NH,VA |
| 2-Hexanone (MBK) | CT,NY,ME,NH,VA |
| Isopropylbenzene (Cumene) | NY,ME,VA |
| p-Isopropyltoluene (p-Cymene) | CT,NY,ME,NH,VA |
| Methyl tert-Butyl Ether (MTBE) | CT,NY,ME,NH,VA |
| Methylene Chloride | CT,NY,ME,NH,VA |
| 4-Methyl-2-pentanone (MIBK) | CT,NY,ME,NH,VA |
| Naphthalene | NY,ME,NH,VA |
| n-Propylbenzene | CT,NY,ME,NH,VA |
| Styrene | CT,NY,ME,NH,VA |
| 1,1,1,2-Tetrachloroethane | CT,NY,ME,NH,VA |
| 1,1,2,2-Tetrachloroethane | CT,NY,ME,NH,VA |
| Tetrachloroethylene | CT,NY,ME,NH,VA |
| Toluene | CT,NY,ME,NH,VA |
| 1,2,3-Trichlorobenzene | NY,ME,NH,VA |
| 1,2,4-Trichlorobenzene | CT,NY,ME,NH,VA |
| 1,3,5-Trichlorobenzene | ME |
| 1,1,1-Trichloroethane | CT,NY,ME,NH,VA |
| 1,1,2-Trichloroethane | CT,NY,ME,NH,VA |
| Trichloroethylene | CT,NY,ME,NH,VA |
| Trichlorofluoromethane (Freon 11) | CT,NY,ME,NH,VA |
| 1,2,3-Trichloropropane | NY,ME,NH,VA |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | NY,VA |
| 1,2,4-Trimethylbenzene | NY,ME,VA |
| 1,3,5-Trimethylbenzene | NY,ME,VA |
| Vinyl Chloride | CT,NY,ME,NH,VA |
| m+p Xylene | CT,NY,ME,NH,VA |
| o-Xylene | CT,NY,ME,NH,VA |

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

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

| Code | Description | Number | Expires |
|------|----------------------------------------------|---------------|------------|
| AIHA | AIHA-LAP, LLC | 100033 | 02/1/2018 |
| MA | Massachusetts DEP | M-MA100 | 06/30/2016 |
| CT | Connecticut Department of Public Health | PH-0567 | 09/30/2017 |
| NY | New York State Department of Health | 10899 NELAP | 04/1/2016 |
| NH-S | New Hampshire Environmental Lab | 2516 NELAP | 02/5/2017 |
| RI | Rhode Island Department of Health | LAO00112 | 12/30/2016 |
| NC | North Carolina Div. of Water Quality | 652 | 12/31/2016 |
| NJ | New Jersey DEP | MA007 NELAP | 06/30/2016 |
| FL | Florida Department of Health | E871027 NELAP | 06/30/2016 |
| VT | Vermont Department of Health Lead Laboratory | LL015036 | 07/30/2016 |
| WA | State of Washington Department of Ecology | C2065 | 02/23/2016 |
| ME | State of Maine | 2011028 | 06/9/2017 |
| VA | Commonwealth of Virginia | 460217 | 12/14/2016 |
| NH-P | New Hampshire Environmental Lab | 2557 NELAP | 09/6/2016 |

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



Sample Receipt Checklist

CLIENT NAME: Coneco RECEIVED BY: JDL DATE: 2/15/2016

1) Was the chain(s) of custody relinquished and signed? Yes X No No COC Incl.

2) Does the chain agree with the samples? Yes X No

If not, explain:

3) Are all the samples in good condition? Yes X No

If not, explain:

4) How were the samples received:

On Ice X Direct from Sampling Ambient In Cooler(s) X

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

Temperature °C by Temp blank Temperature °C by Temp gun 5.8

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

Who was notified Date Time

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

Who was notified Date Time

7) Location where samples are stored:

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

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

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

10) Was the PC notified of any discrepancies with the CoC vs the samples: Yes N/A X

Containers received at Con-Test

| | # of containers | | | # of containers |
|--------------------------------|-----------------|--|----------------------|-----------------|
| 1 Liter Amber | 14 | | 16 oz amber | |
| 500 mL Amber | | | 8 oz amber/clear jar | |
| 250 mL Amber (8oz amber) | | | 4 oz amber/clear jar | |
| 1 Liter Plastic | | | 2 oz amber/clear jar | |
| 500 mL Plastic | | | Plastic Bag / Ziploc | |
| 250 mL plastic | 7 | | SOC Kit | |
| 40 mL Vial - type listed below | 21 | | Perchlorate Kit | |
| Colisure / bacteria bottle | | | Flashpoint bottle | |
| Dissolved Oxygen bottle | | | Other glass jar | |
| Encore | | | Other | |

| | |
|----------------------------------------------------------------------|-----------------------|
| 40 mL vials: # HCl <u>21</u> # Methanol <u> </u> | Time and Date Frozen: |
| Doc# 277 # Bisulfate <u> </u> # DI Water <u> </u> | |
| Rev. 4 August 2013 # Thiosulfate <u> </u> Unpreserved <u> </u> | |

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

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

Doc #277 Rev. 4 August 2013 **Who notified of False statements?**
Log-In Technician Initials: JDL

Date/Time:
2/15/16 1640

February 19, 2016

John Aevazelis
Coneco Engineers & Scientists, Inc.
4 First Street
Bridgewater, MA 02324

Project Location: 434 Allens Ave., Providence, RI
Client Job Number:
Project Number: 7400.B
Laboratory Work Order Number: 16B0628

Enclosed are results of analyses for samples received by the laboratory on February 15, 2016. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Steven Case", written in a cursive style.

Steven M. Case
Project Manager

Table of Contents

| | |
|----------------------------------------------------------------------|----|
| Sample Summary | 4 |
| Case Narrative | 6 |
| Sample Results | 9 |
| 16B0628-01 | 9 |
| 16B0628-02 | 15 |
| 16B0628-03 | 21 |
| 16B0628-04 | 27 |
| 16B0628-05 | 33 |
| 16B0628-06 | 39 |
| 16B0628-07 | 45 |
| 16B0628-08 | 51 |
| Sample Preparation Information | 57 |
| QC Data | 59 |
| Volatile Organic Compounds by GC/MS | 59 |
| B142233 | 59 |
| B142332 | 63 |
| Polychlorinated Biphenyls By GC/ECD | 69 |
| B142207 | 69 |
| Petroleum Hydrocarbons Analyses | 71 |
| B142210 | 71 |
| Metals Analyses (Total) | 72 |
| B142234 | 72 |
| B142272 | 72 |
| Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) | 74 |
| B142226 | 74 |

Table of Contents (continued)

| | |
|---------------------------------|----|
| Dual Column RPD Report | 75 |
| Flag/Qualifier Summary | 86 |
| Certifications | 87 |
| Chain of Custody/Sample Receipt | 90 |

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

Coneco Engineers & Scientists, Inc.
 4 First Street
 Bridgewater, MA 02324
 ATTN: John Aevazelis

REPORT DATE: 2/19/2016

PURCHASE ORDER NUMBER: 7400.B

PROJECT NUMBER: 7400.B

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 16B0628

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

PROJECT LOCATION: 434 Allens Ave., Providence, RI

| FIELD SAMPLE # | LAB ID: | MATRIX | SAMPLE DESCRIPTION | TEST | SUB LAB |
|----------------|------------|--------|--------------------|--------------------------------------------------------------------------------------------------|---------|
| SD-01 | 16B0628-01 | Soil | | SM 2540G SW-846 6010C SW-846 7471B SW-846 8082A SW-846 8100 Modified SW-846 8260C | |
| SD-02 | 16B0628-02 | Soil | | SM 2540G SW-846 6010C SW-846 7471B SW-846 8082A SW-846 8100 Modified SW-846 8260C | |
| SD-03 | 16B0628-03 | Soil | | SM 2540G SW-846 6010C SW-846 7471B SW-846 8082A SW-846 8100 Modified SW-846 8260C | |
| SD-04 | 16B0628-04 | Soil | | SM 2540G SW-846 6010C SW-846 7471B SW-846 8082A SW-846 8100 Modified SW-846 8260C | |
| SD-05 | 16B0628-05 | Soil | | SM 2540G SW-846 6010C SW-846 7471B SW-846 8082A SW-846 8100 Modified SW-846 8260C | |
| SD-06 | 16B0628-06 | Soil | | SM 2540G SW-846 6010C SW-846 7471B SW-846 8082A SW-846 8100 Modified SW-846 8260C | |

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

Coneco Engineers & Scientists, Inc.
 4 First Street
 Bridgewater, MA 02324
 ATTN: John Aevazelis

REPORT DATE: 2/19/2016

PURCHASE ORDER NUMBER: 7400.B

PROJECT NUMBER: 7400.B

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 16B0628

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

PROJECT LOCATION: 434 Allens Ave., Providence, RI

| FIELD SAMPLE # | LAB ID: | MATRIX | SAMPLE DESCRIPTION | TEST | SUB LAB |
|----------------|------------|--------|--------------------|--------------------------------------------------------------------------------------------------|---------|
| SD-07 | 16B0628-07 | Soil | | SM 2540G SW-846 6010C SW-846 7471B SW-846 8082A SW-846 8100 Modified SW-846 8260C | |
| SD-08 | 16B0628-08 | Soil | | SM 2540G SW-846 6010C SW-846 7471B SW-846 8082A SW-846 8100 Modified SW-846 8260C | |

CASE NARRATIVE SUMMARY

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

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332
SW-846 8082A

Qualifications:**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.

Analyte & Samples(s) Qualified:**Aroclor-1260**

B142207-MSD1

R-06

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

Analyte & Samples(s) Qualified:**Aroclor-1260**

16B0628-01[SD-01], B142207-MS1

Aroclor-1260 [2C]

16B0628-01[SD-01], B142207-MS1, B142207-MSD1

SW-846 8100 Modified

Qualifications:**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.

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

B142210-MS1

S-01

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

Analyte & Samples(s) Qualified:**o-Terphenyl**

16B0628-03[SD-03]

SW-846 8260C

Qualifications:**L-04**

Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.

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

16B0628-01[SD-01], 16B0628-02[SD-02], 16B0628-03[SD-03], 16B0628-04[SD-04], 16B0628-05[SD-05], 16B0628-06[SD-06], 16B0628-07[SD-07], 16B0628-08[SD-08], B142233-BLK1, B142233-BS1, B142233-BSD1, B142332-BLK1, B142332-BS1, B142332-BSD1

R-05

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

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

16B0628-04[SD-04], B142332-BLK1, B142332-BS1, B142332-BSD1

V-05

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

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

16B0628-04[SD-04], B142332-BLK1, B142332-BS1, B142332-BSD1

SW-846 8100 Modified

TPH (C9-C36) is quantitated against a calibration made with a diesel standard.

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

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

A handwritten signature in black ink, appearing to read "Tod Kopycinski". The signature is written in a cursive, somewhat stylized script.

Tod E. Kopycinski
Laboratory Director

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0628

Date Received: 2/15/2016

Field Sample #: SD-01

Sampled: 2/12/2016 08:00

Sample ID: 16B0628-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|------------------------------------|---------|---------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Acetone | ND | 0.076 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:24 | MFF |
| Acrylonitrile | ND | 0.0045 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:24 | MFF |
| tert-Amyl Methyl Ether (TAME) | ND | 0.00076 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:24 | MFF |
| Benzene | ND | 0.0015 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:24 | MFF |
| Bromobenzene | ND | 0.0015 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:24 | MFF |
| Bromochloromethane | ND | 0.0015 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:24 | MFF |
| Bromodichloromethane | ND | 0.0015 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:24 | MFF |
| Bromoform | ND | 0.0015 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:24 | MFF |
| Bromomethane | ND | 0.0076 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:24 | MFF |
| 2-Butanone (MEK) | ND | 0.030 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:24 | MFF |
| tert-Butyl Alcohol (TBA) | ND | 0.030 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:24 | MFF |
| n-Butylbenzene | ND | 0.0015 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:24 | MFF |
| sec-Butylbenzene | ND | 0.0015 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:24 | MFF |
| tert-Butylbenzene | ND | 0.0015 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:24 | MFF |
| tert-Butyl Ethyl Ether (TBEE) | ND | 0.00076 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:24 | MFF |
| Carbon Disulfide | ND | 0.0045 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:24 | MFF |
| Carbon Tetrachloride | ND | 0.0015 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:24 | MFF |
| Chlorobenzene | ND | 0.0015 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:24 | MFF |
| Chlorodibromomethane | ND | 0.00076 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:24 | MFF |
| Chloroethane | ND | 0.015 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:24 | MFF |
| Chloroform | ND | 0.0030 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:24 | MFF |
| Chloromethane | ND | 0.0076 | mg/Kg dry | 1 | L-04 | SW-846 8260C | 2/16/16 | 2/16/16 9:24 | MFF |
| 2-Chlorotoluene | ND | 0.0015 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:24 | MFF |
| 4-Chlorotoluene | ND | 0.0015 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:24 | MFF |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 0.0015 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:24 | MFF |
| 1,2-Dibromoethane (EDB) | ND | 0.00076 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:24 | MFF |
| Dibromomethane | ND | 0.0015 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:24 | MFF |
| 1,2-Dichlorobenzene | ND | 0.0015 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:24 | MFF |
| 1,3-Dichlorobenzene | ND | 0.0015 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:24 | MFF |
| 1,4-Dichlorobenzene | ND | 0.0015 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:24 | MFF |
| trans-1,4-Dichloro-2-butene | ND | 0.0030 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:24 | MFF |
| Dichlorodifluoromethane (Freon 12) | ND | 0.015 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:24 | MFF |
| 1,1-Dichloroethane | ND | 0.0015 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:24 | MFF |
| 1,2-Dichloroethane | ND | 0.0015 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:24 | MFF |
| 1,1-Dichloroethylene | ND | 0.0030 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:24 | MFF |
| cis-1,2-Dichloroethylene | ND | 0.0015 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:24 | MFF |
| trans-1,2-Dichloroethylene | ND | 0.0015 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:24 | MFF |
| 1,2-Dichloropropane | ND | 0.0015 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:24 | MFF |
| 1,3-Dichloropropane | ND | 0.00076 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:24 | MFF |
| 2,2-Dichloropropane | ND | 0.0015 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:24 | MFF |
| 1,1-Dichloropropene | ND | 0.0015 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:24 | MFF |
| cis-1,3-Dichloropropene | ND | 0.00076 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:24 | MFF |
| trans-1,3-Dichloropropene | ND | 0.00076 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:24 | MFF |
| Diethyl Ether | ND | 0.015 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:24 | MFF |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0628

Date Received: 2/15/2016

Field Sample #: SD-01

Sampled: 2/12/2016 08:00

Sample ID: 16B0628-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---------------------------------------------------|---------|---------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Diisopropyl Ether (DIPE) | ND | 0.00076 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:24 | MFF |
| 1,4-Dioxane | ND | 0.076 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:24 | MFF |
| Ethylbenzene | ND | 0.0015 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:24 | MFF |
| Hexachlorobutadiene | ND | 0.0015 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:24 | MFF |
| 2-Hexanone (MBK) | ND | 0.015 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:24 | MFF |
| Isopropylbenzene (Cumene) | ND | 0.0015 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:24 | MFF |
| p-Isopropyltoluene (p-Cymene) | ND | 0.0015 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:24 | MFF |
| Methyl tert-Butyl Ether (MTBE) | ND | 0.0030 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:24 | MFF |
| Methylene Chloride | ND | 0.015 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:24 | MFF |
| 4-Methyl-2-pentanone (MIBK) | ND | 0.015 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:24 | MFF |
| Naphthalene | ND | 0.0030 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:24 | MFF |
| n-Propylbenzene | ND | 0.0015 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:24 | MFF |
| Styrene | ND | 0.0015 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:24 | MFF |
| 1,1,1,2-Tetrachloroethane | ND | 0.0015 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:24 | MFF |
| 1,1,2,2-Tetrachloroethane | ND | 0.00076 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:24 | MFF |
| Tetrachloroethylene | ND | 0.0015 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:24 | MFF |
| Tetrahydrofuran | ND | 0.0076 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:24 | MFF |
| Toluene | ND | 0.0015 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:24 | MFF |
| 1,2,3-Trichlorobenzene | ND | 0.0015 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:24 | MFF |
| 1,2,4-Trichlorobenzene | ND | 0.0015 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:24 | MFF |
| 1,3,5-Trichlorobenzene | ND | 0.0015 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:24 | MFF |
| 1,1,1-Trichloroethane | ND | 0.0015 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:24 | MFF |
| 1,1,2-Trichloroethane | ND | 0.0015 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:24 | MFF |
| Trichloroethylene | ND | 0.0015 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:24 | MFF |
| Trichlorofluoromethane (Freon 11) | ND | 0.0076 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:24 | MFF |
| 1,2,3-Trichloropropane | ND | 0.0015 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:24 | MFF |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | ND | 0.0076 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:24 | MFF |
| 1,2,4-Trimethylbenzene | ND | 0.0015 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:24 | MFF |
| 1,3,5-Trimethylbenzene | ND | 0.0015 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:24 | MFF |
| Vinyl Chloride | ND | 0.0076 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:24 | MFF |
| m+p Xylene | ND | 0.0030 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:24 | MFF |
| o-Xylene | ND | 0.0015 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:24 | MFF |

| Surrogates | % Recovery | Recovery Limits | Flag/Qual |
|-----------------------|------------|-----------------|--------------|
| 1,2-Dichloroethane-d4 | 92.2 | 70-130 | 2/16/16 9:24 |
| Toluene-d8 | 96.7 | 70-130 | 2/16/16 9:24 |
| 4-Bromofluorobenzene | 96.6 | 70-130 | 2/16/16 9:24 |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0628

Date Received: 2/15/2016

Field Sample #: SD-01

Sampled: 2/12/2016 08:00

Sample ID: 16B0628-01

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|--------------------------|---------|------------|-----------------|----------|-----------|--------------|---------------|--------------------|---------|
| Aroclor-1016 [1] | ND | 0.13 | mg/Kg dry | 5 | | SW-846 8082A | 2/16/16 | 2/17/16 17:01 | KAL |
| Aroclor-1221 [1] | ND | 0.13 | mg/Kg dry | 5 | | SW-846 8082A | 2/16/16 | 2/17/16 17:01 | KAL |
| Aroclor-1232 [1] | ND | 0.13 | mg/Kg dry | 5 | | SW-846 8082A | 2/16/16 | 2/17/16 17:01 | KAL |
| Aroclor-1242 [1] | ND | 0.13 | mg/Kg dry | 5 | | SW-846 8082A | 2/16/16 | 2/17/16 17:01 | KAL |
| Aroclor-1248 [1] | ND | 0.13 | mg/Kg dry | 5 | | SW-846 8082A | 2/16/16 | 2/17/16 17:01 | KAL |
| Aroclor-1254 [2] | 0.39 | 0.13 | mg/Kg dry | 5 | | SW-846 8082A | 2/16/16 | 2/17/16 17:01 | KAL |
| Aroclor-1260 [1] | 0.32 | 0.13 | mg/Kg dry | 5 | R-06 | SW-846 8082A | 2/16/16 | 2/17/16 17:01 | KAL |
| Aroclor-1262 [1] | ND | 0.13 | mg/Kg dry | 5 | | SW-846 8082A | 2/16/16 | 2/17/16 17:01 | KAL |
| Aroclor-1268 [1] | ND | 0.13 | mg/Kg dry | 5 | | SW-846 8082A | 2/16/16 | 2/17/16 17:01 | KAL |
| Surrogates | | % Recovery | Recovery Limits | | Flag/Qual | | | | |
| Decachlorobiphenyl [1] | | 83.5 | 30-150 | | | | | 2/17/16 17:01 | |
| Decachlorobiphenyl [2] | | 94.0 | 30-150 | | | | | 2/17/16 17:01 | |
| Tetrachloro-m-xylene [1] | | 77.1 | 30-150 | | | | | 2/17/16 17:01 | |
| Tetrachloro-m-xylene [2] | | 80.2 | 30-150 | | | | | 2/17/16 17:01 | |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0628

Date Received: 2/15/2016

Field Sample #: SD-01

Sampled: 2/12/2016 08:00

Sample ID: 16B0628-01

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|--------------|------------|-----|-----------------|----------|-----------|----------------------|---------------|--------------------|---------|
| TPH (C9-C36) | 920 | 110 | mg/Kg dry | 10 | | SW-846 8100 Modified | 2/16/16 | 2/17/16 12:10 | SCS |
| Surrogates | % Recovery | | Recovery Limits | | Flag/Qual | | | | |
| o-Terphenyl | 89.4 | | 40-140 | | | | | 2/17/16 12:10 | |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0628

Date Received: 2/15/2016

Field Sample #: SD-01

Sampled: 2/12/2016 08:00

Sample ID: 16B0628-01

Sample Matrix: Soil

Metals Analyses (Total)

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|----------|---------|-------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Arsenic | ND | 3.1 | mg/Kg dry | 1 | | SW-846 6010C | 2/16/16 | 2/17/16 20:43 | AME |
| Barium | 50 | 3.1 | mg/Kg dry | 1 | | SW-846 6010C | 2/16/16 | 2/17/16 20:43 | AME |
| Cadmium | 0.74 | 0.31 | mg/Kg dry | 1 | | SW-846 6010C | 2/16/16 | 2/17/16 20:43 | AME |
| Chromium | 35 | 0.62 | mg/Kg dry | 1 | | SW-846 6010C | 2/16/16 | 2/17/16 20:43 | AME |
| Lead | 180 | 0.93 | mg/Kg dry | 1 | | SW-846 6010C | 2/16/16 | 2/17/16 20:43 | AME |
| Mercury | 0.50 | 0.032 | mg/Kg dry | 1 | | SW-846 7471B | 2/16/16 | 2/17/16 9:46 | SCB |
| Selenium | ND | 6.2 | mg/Kg dry | 1 | | SW-846 6010C | 2/16/16 | 2/17/16 20:43 | AME |
| Silver | ND | 0.62 | mg/Kg dry | 1 | | SW-846 6010C | 2/16/16 | 2/17/16 20:43 | AME |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0628

Date Received: 2/15/2016

Field Sample #: SD-01

Sampled: 2/12/2016 08:00

Sample ID: 16B0628-01

Sample Matrix: Soil

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

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|---------------|--------------------|---------|
| % Solids | 76.9 | | % Wt | 1 | | SM 2540G | 2/16/16 | 2/17/16 8:00 | MRL |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0628

Date Received: 2/15/2016

Field Sample #: SD-02

Sampled: 2/12/2016 08:05

Sample ID: 16B0628-02

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|------------------------------------|---------|---------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Acetone | ND | 0.074 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:52 | MFF |
| Acrylonitrile | ND | 0.0044 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:52 | MFF |
| tert-Amyl Methyl Ether (TAME) | ND | 0.00074 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:52 | MFF |
| Benzene | ND | 0.0015 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:52 | MFF |
| Bromobenzene | ND | 0.0015 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:52 | MFF |
| Bromochloromethane | ND | 0.0015 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:52 | MFF |
| Bromodichloromethane | ND | 0.0015 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:52 | MFF |
| Bromoform | ND | 0.0015 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:52 | MFF |
| Bromomethane | ND | 0.0074 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:52 | MFF |
| 2-Butanone (MEK) | ND | 0.030 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:52 | MFF |
| tert-Butyl Alcohol (TBA) | ND | 0.030 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:52 | MFF |
| n-Butylbenzene | ND | 0.0015 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:52 | MFF |
| sec-Butylbenzene | ND | 0.0015 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:52 | MFF |
| tert-Butylbenzene | ND | 0.0015 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:52 | MFF |
| tert-Butyl Ethyl Ether (TBEE) | ND | 0.00074 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:52 | MFF |
| Carbon Disulfide | ND | 0.0044 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:52 | MFF |
| Carbon Tetrachloride | ND | 0.0015 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:52 | MFF |
| Chlorobenzene | ND | 0.0015 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:52 | MFF |
| Chlorodibromomethane | ND | 0.00074 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:52 | MFF |
| Chloroethane | ND | 0.015 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:52 | MFF |
| Chloroform | ND | 0.0030 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:52 | MFF |
| Chloromethane | ND | 0.0074 | mg/Kg dry | 1 | L-04 | SW-846 8260C | 2/16/16 | 2/16/16 9:52 | MFF |
| 2-Chlorotoluene | ND | 0.0015 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:52 | MFF |
| 4-Chlorotoluene | ND | 0.0015 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:52 | MFF |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 0.0015 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:52 | MFF |
| 1,2-Dibromoethane (EDB) | ND | 0.00074 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:52 | MFF |
| Dibromomethane | ND | 0.0015 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:52 | MFF |
| 1,2-Dichlorobenzene | ND | 0.0015 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:52 | MFF |
| 1,3-Dichlorobenzene | ND | 0.0015 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:52 | MFF |
| 1,4-Dichlorobenzene | ND | 0.0015 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:52 | MFF |
| trans-1,4-Dichloro-2-butene | ND | 0.0030 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:52 | MFF |
| Dichlorodifluoromethane (Freon 12) | ND | 0.015 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:52 | MFF |
| 1,1-Dichloroethane | ND | 0.0015 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:52 | MFF |
| 1,2-Dichloroethane | ND | 0.0015 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:52 | MFF |
| 1,1-Dichloroethylene | ND | 0.0030 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:52 | MFF |
| cis-1,2-Dichloroethylene | ND | 0.0015 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:52 | MFF |
| trans-1,2-Dichloroethylene | ND | 0.0015 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:52 | MFF |
| 1,2-Dichloropropane | ND | 0.0015 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:52 | MFF |
| 1,3-Dichloropropane | ND | 0.00074 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:52 | MFF |
| 2,2-Dichloropropane | ND | 0.0015 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:52 | MFF |
| 1,1-Dichloropropene | ND | 0.0015 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:52 | MFF |
| cis-1,3-Dichloropropene | ND | 0.00074 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:52 | MFF |
| trans-1,3-Dichloropropene | ND | 0.00074 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:52 | MFF |
| Diethyl Ether | ND | 0.015 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:52 | MFF |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0628

Date Received: 2/15/2016

Field Sample #: SD-02

Sampled: 2/12/2016 08:05

Sample ID: 16B0628-02

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---------------------------------------------------|---------|---------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Diisopropyl Ether (DIPE) | ND | 0.00074 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:52 | MFF |
| 1,4-Dioxane | ND | 0.074 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:52 | MFF |
| Ethylbenzene | ND | 0.0015 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:52 | MFF |
| Hexachlorobutadiene | ND | 0.0015 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:52 | MFF |
| 2-Hexanone (MBK) | ND | 0.015 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:52 | MFF |
| Isopropylbenzene (Cumene) | ND | 0.0015 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:52 | MFF |
| p-Isopropyltoluene (p-Cymene) | ND | 0.0015 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:52 | MFF |
| Methyl tert-Butyl Ether (MTBE) | ND | 0.0030 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:52 | MFF |
| Methylene Chloride | ND | 0.015 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:52 | MFF |
| 4-Methyl-2-pentanone (MIBK) | ND | 0.015 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:52 | MFF |
| Naphthalene | 0.0070 | 0.0030 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:52 | MFF |
| n-Propylbenzene | ND | 0.0015 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:52 | MFF |
| Styrene | ND | 0.0015 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:52 | MFF |
| 1,1,1,2-Tetrachloroethane | ND | 0.0015 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:52 | MFF |
| 1,1,2,2-Tetrachloroethane | ND | 0.00074 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:52 | MFF |
| Tetrachloroethylene | ND | 0.0015 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:52 | MFF |
| Tetrahydrofuran | ND | 0.0074 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:52 | MFF |
| Toluene | ND | 0.0015 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:52 | MFF |
| 1,2,3-Trichlorobenzene | ND | 0.0015 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:52 | MFF |
| 1,2,4-Trichlorobenzene | ND | 0.0015 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:52 | MFF |
| 1,3,5-Trichlorobenzene | ND | 0.0015 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:52 | MFF |
| 1,1,1-Trichloroethane | ND | 0.0015 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:52 | MFF |
| 1,1,2-Trichloroethane | ND | 0.0015 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:52 | MFF |
| Trichloroethylene | ND | 0.0015 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:52 | MFF |
| Trichlorofluoromethane (Freon 11) | ND | 0.0074 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:52 | MFF |
| 1,2,3-Trichloropropane | ND | 0.0015 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:52 | MFF |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | ND | 0.0074 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:52 | MFF |
| 1,2,4-Trimethylbenzene | ND | 0.0015 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:52 | MFF |
| 1,3,5-Trimethylbenzene | ND | 0.0015 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:52 | MFF |
| Vinyl Chloride | ND | 0.0074 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:52 | MFF |
| m+p Xylene | ND | 0.0030 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:52 | MFF |
| o-Xylene | ND | 0.0015 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 9:52 | MFF |

| Surrogates | % Recovery | Recovery Limits | Flag/Qual |
|-----------------------|------------|-----------------|--------------|
| 1,2-Dichloroethane-d4 | 98.2 | 70-130 | 2/16/16 9:52 |
| Toluene-d8 | 97.2 | 70-130 | 2/16/16 9:52 |
| 4-Bromofluorobenzene | 95.8 | 70-130 | 2/16/16 9:52 |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0628

Date Received: 2/15/2016

Field Sample #: SD-02

Sampled: 2/12/2016 08:05

Sample ID: 16B0628-02

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|--------------------------|---------|------------|-----------------|----------|-----------|--------------|---------------|--------------------|---------|
| Aroclor-1016 [1] | ND | 0.14 | mg/Kg dry | 5 | | SW-846 8082A | 2/16/16 | 2/17/16 17:14 | KAL |
| Aroclor-1221 [1] | ND | 0.14 | mg/Kg dry | 5 | | SW-846 8082A | 2/16/16 | 2/17/16 17:14 | KAL |
| Aroclor-1232 [1] | ND | 0.14 | mg/Kg dry | 5 | | SW-846 8082A | 2/16/16 | 2/17/16 17:14 | KAL |
| Aroclor-1242 [1] | ND | 0.14 | mg/Kg dry | 5 | | SW-846 8082A | 2/16/16 | 2/17/16 17:14 | KAL |
| Aroclor-1248 [2] | 0.26 | 0.14 | mg/Kg dry | 5 | | SW-846 8082A | 2/16/16 | 2/17/16 17:14 | KAL |
| Aroclor-1254 [2] | 0.40 | 0.14 | mg/Kg dry | 5 | | SW-846 8082A | 2/16/16 | 2/17/16 17:14 | KAL |
| Aroclor-1260 [1] | 0.16 | 0.14 | mg/Kg dry | 5 | | SW-846 8082A | 2/16/16 | 2/17/16 17:14 | KAL |
| Aroclor-1262 [1] | ND | 0.14 | mg/Kg dry | 5 | | SW-846 8082A | 2/16/16 | 2/17/16 17:14 | KAL |
| Aroclor-1268 [1] | ND | 0.14 | mg/Kg dry | 5 | | SW-846 8082A | 2/16/16 | 2/17/16 17:14 | KAL |
| Surrogates | | % Recovery | Recovery Limits | | Flag/Qual | | | | |
| Decachlorobiphenyl [1] | | 58.3 | 30-150 | | | | | 2/17/16 17:14 | |
| Decachlorobiphenyl [2] | | 71.1 | 30-150 | | | | | 2/17/16 17:14 | |
| Tetrachloro-m-xylene [1] | | 59.9 | 30-150 | | | | | 2/17/16 17:14 | |
| Tetrachloro-m-xylene [2] | | 65.4 | 30-150 | | | | | 2/17/16 17:14 | |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0628

Date Received: 2/15/2016

Field Sample #: SD-02

Sampled: 2/12/2016 08:05

Sample ID: 16B0628-02

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|-------------------|---------|-------------------|------------------------|----------|------------------|----------------------|---------------|--------------------|---------|
| TPH (C9-C36) | 770 | 120 | mg/Kg dry | 10 | | SW-846 8100 Modified | 2/16/16 | 2/17/16 12:28 | SCS |
| Surrogates | | % Recovery | Recovery Limits | | Flag/Qual | | | | |
| o-Terphenyl | | 96.8 | 40-140 | | | | | 2/17/16 12:28 | |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0628

Date Received: 2/15/2016

Field Sample #: SD-02

Sampled: 2/12/2016 08:05

Sample ID: 16B0628-02

Sample Matrix: Soil

Metals Analyses (Total)

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|----------|---------|------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Arsenic | 3.7 | 3.3 | mg/Kg dry | 1 | | SW-846 6010C | 2/16/16 | 2/17/16 20:49 | AME |
| Barium | 140 | 3.3 | mg/Kg dry | 1 | | SW-846 6010C | 2/16/16 | 2/17/16 20:49 | AME |
| Cadmium | 1.3 | 0.33 | mg/Kg dry | 1 | | SW-846 6010C | 2/16/16 | 2/17/16 20:49 | AME |
| Chromium | 46 | 0.66 | mg/Kg dry | 1 | | SW-846 6010C | 2/16/16 | 2/17/16 20:49 | AME |
| Lead | 210 | 0.99 | mg/Kg dry | 1 | | SW-846 6010C | 2/16/16 | 2/17/16 20:49 | AME |
| Mercury | 0.96 | 0.16 | mg/Kg dry | 5 | | SW-846 7471B | 2/16/16 | 2/17/16 14:19 | SCB |
| Selenium | ND | 6.6 | mg/Kg dry | 1 | | SW-846 6010C | 2/16/16 | 2/17/16 20:49 | AME |
| Silver | ND | 0.66 | mg/Kg dry | 1 | | SW-846 6010C | 2/16/16 | 2/17/16 20:49 | AME |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0628

Date Received: 2/15/2016

Sampled: 2/12/2016 08:05

Field Sample #: SD-02

Sample ID: 16B0628-02

Sample Matrix: Soil

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

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|---------------|--------------------|---------|
| % Solids | 70.9 | | % Wt | 1 | | SM 2540G | 2/16/16 | 2/17/16 8:00 | MRL |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0628

Date Received: 2/15/2016

Field Sample #: SD-03

Sampled: 2/12/2016 08:10

Sample ID: 16B0628-03

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|------------------------------------|---------|--------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Acetone | ND | 0.19 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 10:19 | MFF |
| Acrylonitrile | ND | 0.011 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 10:19 | MFF |
| tert-Amyl Methyl Ether (TAME) | ND | 0.0019 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 10:19 | MFF |
| Benzene | ND | 0.0037 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 10:19 | MFF |
| Bromobenzene | ND | 0.0037 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 10:19 | MFF |
| Bromochloromethane | ND | 0.0037 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 10:19 | MFF |
| Bromodichloromethane | ND | 0.0037 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 10:19 | MFF |
| Bromoform | ND | 0.0037 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 10:19 | MFF |
| Bromomethane | ND | 0.019 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 10:19 | MFF |
| 2-Butanone (MEK) | ND | 0.074 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 10:19 | MFF |
| tert-Butyl Alcohol (TBA) | ND | 0.074 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 10:19 | MFF |
| n-Butylbenzene | ND | 0.0037 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 10:19 | MFF |
| sec-Butylbenzene | ND | 0.0037 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 10:19 | MFF |
| tert-Butylbenzene | ND | 0.0037 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 10:19 | MFF |
| tert-Butyl Ethyl Ether (TBEE) | ND | 0.0019 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 10:19 | MFF |
| Carbon Disulfide | ND | 0.011 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 10:19 | MFF |
| Carbon Tetrachloride | ND | 0.0037 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 10:19 | MFF |
| Chlorobenzene | ND | 0.0037 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 10:19 | MFF |
| Chlorodibromomethane | ND | 0.0019 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 10:19 | MFF |
| Chloroethane | ND | 0.037 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 10:19 | MFF |
| Chloroform | ND | 0.0074 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 10:19 | MFF |
| Chloromethane | ND | 0.019 | mg/Kg dry | 1 | L-04 | SW-846 8260C | 2/16/16 | 2/16/16 10:19 | MFF |
| 2-Chlorotoluene | ND | 0.0037 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 10:19 | MFF |
| 4-Chlorotoluene | ND | 0.0037 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 10:19 | MFF |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 0.0037 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 10:19 | MFF |
| 1,2-Dibromoethane (EDB) | ND | 0.0019 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 10:19 | MFF |
| Dibromomethane | ND | 0.0037 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 10:19 | MFF |
| 1,2-Dichlorobenzene | ND | 0.0037 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 10:19 | MFF |
| 1,3-Dichlorobenzene | ND | 0.0037 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 10:19 | MFF |
| 1,4-Dichlorobenzene | ND | 0.0037 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 10:19 | MFF |
| trans-1,4-Dichloro-2-butene | ND | 0.0074 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 10:19 | MFF |
| Dichlorodifluoromethane (Freon 12) | ND | 0.037 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 10:19 | MFF |
| 1,1-Dichloroethane | ND | 0.0037 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 10:19 | MFF |
| 1,2-Dichloroethane | ND | 0.0037 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 10:19 | MFF |
| 1,1-Dichloroethylene | ND | 0.0074 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 10:19 | MFF |
| cis-1,2-Dichloroethylene | ND | 0.0037 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 10:19 | MFF |
| trans-1,2-Dichloroethylene | ND | 0.0037 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 10:19 | MFF |
| 1,2-Dichloropropane | ND | 0.0037 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 10:19 | MFF |
| 1,3-Dichloropropane | ND | 0.0019 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 10:19 | MFF |
| 2,2-Dichloropropane | ND | 0.0037 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 10:19 | MFF |
| 1,1-Dichloropropene | ND | 0.0037 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 10:19 | MFF |
| cis-1,3-Dichloropropene | ND | 0.0019 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 10:19 | MFF |
| trans-1,3-Dichloropropene | ND | 0.0019 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 10:19 | MFF |
| Diethyl Ether | ND | 0.037 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 10:19 | MFF |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0628

Date Received: 2/15/2016

Field Sample #: SD-03

Sampled: 2/12/2016 08:10

Sample ID: 16B0628-03

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---------------------------------------------------|---------|--------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Diisopropyl Ether (DIPE) | ND | 0.0019 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 10:19 | MFF |
| 1,4-Dioxane | ND | 0.19 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 10:19 | MFF |
| Ethylbenzene | ND | 0.0037 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 10:19 | MFF |
| Hexachlorobutadiene | ND | 0.0037 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 10:19 | MFF |
| 2-Hexanone (MBK) | ND | 0.037 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 10:19 | MFF |
| Isopropylbenzene (Cumene) | ND | 0.0037 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 10:19 | MFF |
| p-Isopropyltoluene (p-Cymene) | ND | 0.0037 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 10:19 | MFF |
| Methyl tert-Butyl Ether (MTBE) | 0.029 | 0.0074 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 10:19 | MFF |
| Methylene Chloride | ND | 0.037 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 10:19 | MFF |
| 4-Methyl-2-pentanone (MIBK) | ND | 0.037 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 10:19 | MFF |
| Naphthalene | 0.15 | 0.0074 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 10:19 | MFF |
| n-Propylbenzene | ND | 0.0037 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 10:19 | MFF |
| Styrene | ND | 0.0037 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 10:19 | MFF |
| 1,1,1,2-Tetrachloroethane | ND | 0.0037 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 10:19 | MFF |
| 1,1,2,2-Tetrachloroethane | ND | 0.0019 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 10:19 | MFF |
| Tetrachloroethylene | ND | 0.0037 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 10:19 | MFF |
| Tetrahydrofuran | ND | 0.019 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 10:19 | MFF |
| Toluene | ND | 0.0037 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 10:19 | MFF |
| 1,2,3-Trichlorobenzene | ND | 0.0037 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 10:19 | MFF |
| 1,2,4-Trichlorobenzene | ND | 0.0037 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 10:19 | MFF |
| 1,3,5-Trichlorobenzene | ND | 0.0037 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 10:19 | MFF |
| 1,1,1-Trichloroethane | ND | 0.0037 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 10:19 | MFF |
| 1,1,2-Trichloroethane | ND | 0.0037 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 10:19 | MFF |
| Trichloroethylene | ND | 0.0037 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 10:19 | MFF |
| Trichlorofluoromethane (Freon 11) | ND | 0.019 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 10:19 | MFF |
| 1,2,3-Trichloropropane | ND | 0.0037 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 10:19 | MFF |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | ND | 0.019 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 10:19 | MFF |
| 1,2,4-Trimethylbenzene | ND | 0.0037 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 10:19 | MFF |
| 1,3,5-Trimethylbenzene | ND | 0.0037 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 10:19 | MFF |
| Vinyl Chloride | ND | 0.019 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 10:19 | MFF |
| m+p Xylene | ND | 0.0074 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 10:19 | MFF |
| o-Xylene | ND | 0.0037 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 10:19 | MFF |

| Surrogates | % Recovery | Recovery Limits | Flag/Qual |
|-----------------------|------------|-----------------|---------------|
| 1,2-Dichloroethane-d4 | 89.7 | 70-130 | 2/16/16 10:19 |
| Toluene-d8 | 98.0 | 70-130 | 2/16/16 10:19 |
| 4-Bromofluorobenzene | 96.7 | 70-130 | 2/16/16 10:19 |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0628

Date Received: 2/15/2016

Field Sample #: SD-03

Sampled: 2/12/2016 08:10

Sample ID: 16B0628-03

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|--------------------------|---------|------------|-----------------|----------|-----------|--------------|---------------|--------------------|---------|
| Aroclor-1016 [1] | ND | 0.18 | mg/Kg dry | 5 | | SW-846 8082A | 2/16/16 | 2/17/16 17:27 | KAL |
| Aroclor-1221 [1] | ND | 0.18 | mg/Kg dry | 5 | | SW-846 8082A | 2/16/16 | 2/17/16 17:27 | KAL |
| Aroclor-1232 [1] | ND | 0.18 | mg/Kg dry | 5 | | SW-846 8082A | 2/16/16 | 2/17/16 17:27 | KAL |
| Aroclor-1242 [1] | ND | 0.18 | mg/Kg dry | 5 | | SW-846 8082A | 2/16/16 | 2/17/16 17:27 | KAL |
| Aroclor-1248 [2] | 0.84 | 0.18 | mg/Kg dry | 5 | | SW-846 8082A | 2/16/16 | 2/17/16 17:27 | KAL |
| Aroclor-1254 [2] | 1.3 | 0.18 | mg/Kg dry | 5 | | SW-846 8082A | 2/16/16 | 2/17/16 17:27 | KAL |
| Aroclor-1260 [1] | 0.34 | 0.18 | mg/Kg dry | 5 | | SW-846 8082A | 2/16/16 | 2/17/16 17:27 | KAL |
| Aroclor-1262 [1] | ND | 0.18 | mg/Kg dry | 5 | | SW-846 8082A | 2/16/16 | 2/17/16 17:27 | KAL |
| Aroclor-1268 [1] | ND | 0.18 | mg/Kg dry | 5 | | SW-846 8082A | 2/16/16 | 2/17/16 17:27 | KAL |
| Surrogates | | % Recovery | Recovery Limits | | Flag/Qual | | | | |
| Decachlorobiphenyl [1] | | 55.5 | 30-150 | | | | | 2/17/16 17:27 | |
| Decachlorobiphenyl [2] | | 67.4 | 30-150 | | | | | 2/17/16 17:27 | |
| Tetrachloro-m-xylene [1] | | 53.2 | 30-150 | | | | | 2/17/16 17:27 | |
| Tetrachloro-m-xylene [2] | | 60.2 | 30-150 | | | | | 2/17/16 17:27 | |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0628

Date Received: 2/15/2016

Field Sample #: SD-03

Sampled: 2/12/2016 08:10

Sample ID: 16B0628-03

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|--------------|------------|-----|-----------------|-----------|-----------|----------------------|---------------|--------------------|---------|
| TPH (C9-C36) | 3000 | 300 | mg/Kg dry | 20 | | SW-846 8100 Modified | 2/16/16 | 2/17/16 14:49 | SCS |
| Surrogates | % Recovery | | Recovery Limits | Flag/Qual | | | | | |
| o-Terphenyl | * | | 40-140 | S-01 | | 2/17/16 14:49 | | | |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0628

Date Received: 2/15/2016

Field Sample #: SD-03

Sampled: 2/12/2016 08:10

Sample ID: 16B0628-03

Sample Matrix: Soil

Metals Analyses (Total)

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|----------|---------|------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Arsenic | ND | 4.5 | mg/Kg dry | 1 | | SW-846 6010C | 2/16/16 | 2/17/16 20:54 | AME |
| Barium | 130 | 4.5 | mg/Kg dry | 1 | | SW-846 6010C | 2/16/16 | 2/17/16 20:54 | AME |
| Cadmium | 2.3 | 0.45 | mg/Kg dry | 1 | | SW-846 6010C | 2/16/16 | 2/17/16 20:54 | AME |
| Chromium | 56 | 0.89 | mg/Kg dry | 1 | | SW-846 6010C | 2/16/16 | 2/17/16 20:54 | AME |
| Lead | 320 | 1.3 | mg/Kg dry | 1 | | SW-846 6010C | 2/16/16 | 2/17/16 20:54 | AME |
| Mercury | 1.3 | 0.21 | mg/Kg dry | 5 | | SW-846 7471B | 2/16/16 | 2/17/16 14:21 | SCB |
| Selenium | ND | 8.9 | mg/Kg dry | 1 | | SW-846 6010C | 2/16/16 | 2/17/16 20:54 | AME |
| Silver | ND | 0.89 | mg/Kg dry | 1 | | SW-846 6010C | 2/16/16 | 2/17/16 20:54 | AME |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0628

Date Received: 2/15/2016

Sampled: 2/12/2016 08:10

Field Sample #: SD-03

Sample ID: 16B0628-03

Sample Matrix: Soil

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

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|---------------|--------------------|---------|
| % Solids | 55.1 | | % Wt | 1 | | SM 2540G | 2/16/16 | 2/17/16 8:00 | MRL |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0628

Date Received: 2/15/2016

Field Sample #: SD-04

Sampled: 2/12/2016 08:15

Sample ID: 16B0628-04

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|------------------------------------|---------|---------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Acetone | ND | 0.080 | mg/Kg dry | 1 | R-05 | SW-846 8260C | 2/16/16 | 2/17/16 11:38 | MFF |
| Acrylonitrile | ND | 0.0048 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/17/16 11:38 | MFF |
| tert-Amyl Methyl Ether (TAME) | ND | 0.00080 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/17/16 11:38 | MFF |
| Benzene | ND | 0.0016 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/17/16 11:38 | MFF |
| Bromobenzene | ND | 0.0016 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/17/16 11:38 | MFF |
| Bromochloromethane | ND | 0.0016 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/17/16 11:38 | MFF |
| Bromodichloromethane | ND | 0.0016 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/17/16 11:38 | MFF |
| Bromoform | ND | 0.0016 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/17/16 11:38 | MFF |
| Bromomethane | ND | 0.0080 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/17/16 11:38 | MFF |
| 2-Butanone (MEK) | ND | 0.032 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/17/16 11:38 | MFF |
| tert-Butyl Alcohol (TBA) | ND | 0.032 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/17/16 11:38 | MFF |
| n-Butylbenzene | ND | 0.0016 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/17/16 11:38 | MFF |
| sec-Butylbenzene | ND | 0.0016 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/17/16 11:38 | MFF |
| tert-Butylbenzene | ND | 0.0016 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/17/16 11:38 | MFF |
| tert-Butyl Ethyl Ether (TBEE) | ND | 0.00080 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/17/16 11:38 | MFF |
| Carbon Disulfide | ND | 0.0048 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/17/16 11:38 | MFF |
| Carbon Tetrachloride | ND | 0.0016 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/17/16 11:38 | MFF |
| Chlorobenzene | ND | 0.0016 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/17/16 11:38 | MFF |
| Chlorodibromomethane | ND | 0.00080 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/17/16 11:38 | MFF |
| Chloroethane | ND | 0.016 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/17/16 11:38 | MFF |
| Chloroform | ND | 0.0032 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/17/16 11:38 | MFF |
| Chloromethane | ND | 0.0080 | mg/Kg dry | 1 | L-04 | SW-846 8260C | 2/16/16 | 2/17/16 11:38 | MFF |
| 2-Chlorotoluene | ND | 0.0016 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/17/16 11:38 | MFF |
| 4-Chlorotoluene | ND | 0.0016 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/17/16 11:38 | MFF |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 0.0016 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/17/16 11:38 | MFF |
| 1,2-Dibromoethane (EDB) | ND | 0.00080 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/17/16 11:38 | MFF |
| Dibromomethane | ND | 0.0016 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/17/16 11:38 | MFF |
| 1,2-Dichlorobenzene | ND | 0.0016 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/17/16 11:38 | MFF |
| 1,3-Dichlorobenzene | ND | 0.0016 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/17/16 11:38 | MFF |
| 1,4-Dichlorobenzene | ND | 0.0016 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/17/16 11:38 | MFF |
| trans-1,4-Dichloro-2-butene | ND | 0.0032 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/17/16 11:38 | MFF |
| Dichlorodifluoromethane (Freon 12) | ND | 0.016 | mg/Kg dry | 1 | V-05 | SW-846 8260C | 2/16/16 | 2/17/16 11:38 | MFF |
| 1,1-Dichloroethane | ND | 0.0016 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/17/16 11:38 | MFF |
| 1,2-Dichloroethane | ND | 0.0016 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/17/16 11:38 | MFF |
| 1,1-Dichloroethylene | ND | 0.0032 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/17/16 11:38 | MFF |
| cis-1,2-Dichloroethylene | ND | 0.0016 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/17/16 11:38 | MFF |
| trans-1,2-Dichloroethylene | ND | 0.0016 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/17/16 11:38 | MFF |
| 1,2-Dichloropropane | ND | 0.0016 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/17/16 11:38 | MFF |
| 1,3-Dichloropropane | ND | 0.00080 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/17/16 11:38 | MFF |
| 2,2-Dichloropropane | ND | 0.0016 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/17/16 11:38 | MFF |
| 1,1-Dichloropropene | ND | 0.0016 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/17/16 11:38 | MFF |
| cis-1,3-Dichloropropene | ND | 0.00080 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/17/16 11:38 | MFF |
| trans-1,3-Dichloropropene | ND | 0.00080 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/17/16 11:38 | MFF |
| Diethyl Ether | ND | 0.016 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/17/16 11:38 | MFF |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0628

Date Received: 2/15/2016

Field Sample #: SD-04

Sampled: 2/12/2016 08:15

Sample ID: 16B0628-04

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---------------------------------------------------|---------|---------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Diisopropyl Ether (DIPE) | ND | 0.00080 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/17/16 11:38 | MFF |
| 1,4-Dioxane | ND | 0.080 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/17/16 11:38 | MFF |
| Ethylbenzene | ND | 0.0016 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/17/16 11:38 | MFF |
| Hexachlorobutadiene | ND | 0.0016 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/17/16 11:38 | MFF |
| 2-Hexanone (MBK) | ND | 0.016 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/17/16 11:38 | MFF |
| Isopropylbenzene (Cumene) | ND | 0.0016 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/17/16 11:38 | MFF |
| p-Isopropyltoluene (p-Cymene) | ND | 0.0016 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/17/16 11:38 | MFF |
| Methyl tert-Butyl Ether (MTBE) | ND | 0.0032 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/17/16 11:38 | MFF |
| Methylene Chloride | ND | 0.016 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/17/16 11:38 | MFF |
| 4-Methyl-2-pentanone (MIBK) | ND | 0.016 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/17/16 11:38 | MFF |
| Naphthalene | ND | 0.0032 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/17/16 11:38 | MFF |
| n-Propylbenzene | ND | 0.0016 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/17/16 11:38 | MFF |
| Styrene | ND | 0.0016 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/17/16 11:38 | MFF |
| 1,1,1,2-Tetrachloroethane | ND | 0.0016 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/17/16 11:38 | MFF |
| 1,1,2,2-Tetrachloroethane | ND | 0.00080 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/17/16 11:38 | MFF |
| Tetrachloroethylene | ND | 0.0016 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/17/16 11:38 | MFF |
| Tetrahydrofuran | ND | 0.0080 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/17/16 11:38 | MFF |
| Toluene | ND | 0.0016 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/17/16 11:38 | MFF |
| 1,2,3-Trichlorobenzene | ND | 0.0016 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/17/16 11:38 | MFF |
| 1,2,4-Trichlorobenzene | ND | 0.0016 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/17/16 11:38 | MFF |
| 1,3,5-Trichlorobenzene | ND | 0.0016 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/17/16 11:38 | MFF |
| 1,1,1-Trichloroethane | ND | 0.0016 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/17/16 11:38 | MFF |
| 1,1,2-Trichloroethane | ND | 0.0016 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/17/16 11:38 | MFF |
| Trichloroethylene | ND | 0.0016 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/17/16 11:38 | MFF |
| Trichlorofluoromethane (Freon 11) | ND | 0.0080 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/17/16 11:38 | MFF |
| 1,2,3-Trichloropropane | ND | 0.0016 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/17/16 11:38 | MFF |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | ND | 0.0080 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/17/16 11:38 | MFF |
| 1,2,4-Trimethylbenzene | ND | 0.0016 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/17/16 11:38 | MFF |
| 1,3,5-Trimethylbenzene | ND | 0.0016 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/17/16 11:38 | MFF |
| Vinyl Chloride | ND | 0.0080 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/17/16 11:38 | MFF |
| m+p Xylene | ND | 0.0032 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/17/16 11:38 | MFF |
| o-Xylene | ND | 0.0016 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/17/16 11:38 | MFF |

| Surrogates | % Recovery | Recovery Limits | Flag/Qual |
|-----------------------|------------|-----------------|---------------|
| 1,2-Dichloroethane-d4 | 94.8 | 70-130 | 2/17/16 11:38 |
| Toluene-d8 | 96.9 | 70-130 | 2/17/16 11:38 |
| 4-Bromofluorobenzene | 96.9 | 70-130 | 2/17/16 11:38 |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0628

Date Received: 2/15/2016

Field Sample #: SD-04

Sampled: 2/12/2016 08:15

Sample ID: 16B0628-04

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|--------------------------|---------|------------|-----------------|----------|-----------|--------------|---------------|--------------------|---------|
| Aroclor-1016 [1] | ND | 0.13 | mg/Kg dry | 5 | | SW-846 8082A | 2/16/16 | 2/17/16 17:40 | KAL |
| Aroclor-1221 [1] | ND | 0.13 | mg/Kg dry | 5 | | SW-846 8082A | 2/16/16 | 2/17/16 17:40 | KAL |
| Aroclor-1232 [1] | ND | 0.13 | mg/Kg dry | 5 | | SW-846 8082A | 2/16/16 | 2/17/16 17:40 | KAL |
| Aroclor-1242 [1] | ND | 0.13 | mg/Kg dry | 5 | | SW-846 8082A | 2/16/16 | 2/17/16 17:40 | KAL |
| Aroclor-1248 [1] | ND | 0.13 | mg/Kg dry | 5 | | SW-846 8082A | 2/16/16 | 2/17/16 17:40 | KAL |
| Aroclor-1254 [1] | ND | 0.13 | mg/Kg dry | 5 | | SW-846 8082A | 2/16/16 | 2/17/16 17:40 | KAL |
| Aroclor-1260 [1] | ND | 0.13 | mg/Kg dry | 5 | | SW-846 8082A | 2/16/16 | 2/17/16 17:40 | KAL |
| Aroclor-1262 [1] | ND | 0.13 | mg/Kg dry | 5 | | SW-846 8082A | 2/16/16 | 2/17/16 17:40 | KAL |
| Aroclor-1268 [1] | ND | 0.13 | mg/Kg dry | 5 | | SW-846 8082A | 2/16/16 | 2/17/16 17:40 | KAL |
| Surrogates | | % Recovery | Recovery Limits | | Flag/Qual | | | | |
| Decachlorobiphenyl [1] | | 82.5 | 30-150 | | | | | 2/17/16 17:40 | |
| Decachlorobiphenyl [2] | | 91.1 | 30-150 | | | | | 2/17/16 17:40 | |
| Tetrachloro-m-xylene [1] | | 82.6 | 30-150 | | | | | 2/17/16 17:40 | |
| Tetrachloro-m-xylene [2] | | 96.0 | 30-150 | | | | | 2/17/16 17:40 | |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0628

Date Received: 2/15/2016

Field Sample #: SD-04

Sampled: 2/12/2016 08:15

Sample ID: 16B0628-04

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|--------------|------------|----|-----------------|----------|-----------|----------------------|---------------|--------------------|---------|
| TPH (C9-C36) | 340 | 53 | mg/Kg dry | 5 | | SW-846 8100 Modified | 2/16/16 | 2/17/16 13:03 | SCS |
| Surrogates | % Recovery | | Recovery Limits | | Flag/Qual | | | | |
| o-Terphenyl | 81.8 | | 40-140 | | | | | 2/17/16 13:03 | |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0628

Date Received: 2/15/2016

Field Sample #: SD-04

Sampled: 2/12/2016 08:15

Sample ID: 16B0628-04

Sample Matrix: Soil

Metals Analyses (Total)

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|----------|---------|-------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Arsenic | ND | 3.1 | mg/Kg dry | 1 | | SW-846 6010C | 2/16/16 | 2/17/16 20:59 | AME |
| Barium | 11 | 3.1 | mg/Kg dry | 1 | | SW-846 6010C | 2/16/16 | 2/17/16 20:59 | AME |
| Cadmium | 0.32 | 0.31 | mg/Kg dry | 1 | | SW-846 6010C | 2/16/16 | 2/17/16 20:59 | AME |
| Chromium | 5.6 | 0.61 | mg/Kg dry | 1 | | SW-846 6010C | 2/16/16 | 2/17/16 20:59 | AME |
| Lead | 120 | 0.92 | mg/Kg dry | 1 | | SW-846 6010C | 2/16/16 | 2/17/16 20:59 | AME |
| Mercury | 0.032 | 0.030 | mg/Kg dry | 1 | | SW-846 7471B | 2/16/16 | 2/17/16 9:51 | SCB |
| Selenium | ND | 6.1 | mg/Kg dry | 1 | | SW-846 6010C | 2/16/16 | 2/17/16 20:59 | AME |
| Silver | ND | 0.61 | mg/Kg dry | 1 | | SW-846 6010C | 2/16/16 | 2/17/16 20:59 | AME |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0628

Date Received: 2/15/2016

Field Sample #: SD-04

Sampled: 2/12/2016 08:15

Sample ID: 16B0628-04

Sample Matrix: Soil

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

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|---------------|--------------------|---------|
| % Solids | 78.7 | | % Wt | 1 | | SM 2540G | 2/16/16 | 2/17/16 8:00 | MRL |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0628

Date Received: 2/15/2016

Field Sample #: SD-05

Sampled: 2/12/2016 08:20

Sample ID: 16B0628-05

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|------------------------------------|---------|--------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Acetone | ND | 0.12 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:14 | MFF |
| Acrylonitrile | ND | 0.0075 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:14 | MFF |
| tert-Amyl Methyl Ether (TAME) | ND | 0.0012 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:14 | MFF |
| Benzene | ND | 0.0025 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:14 | MFF |
| Bromobenzene | ND | 0.0025 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:14 | MFF |
| Bromochloromethane | ND | 0.0025 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:14 | MFF |
| Bromodichloromethane | ND | 0.0025 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:14 | MFF |
| Bromoform | ND | 0.0025 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:14 | MFF |
| Bromomethane | ND | 0.012 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:14 | MFF |
| 2-Butanone (MEK) | ND | 0.050 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:14 | MFF |
| tert-Butyl Alcohol (TBA) | ND | 0.050 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:14 | MFF |
| n-Butylbenzene | ND | 0.0025 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:14 | MFF |
| sec-Butylbenzene | ND | 0.0025 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:14 | MFF |
| tert-Butylbenzene | ND | 0.0025 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:14 | MFF |
| tert-Butyl Ethyl Ether (TBEE) | ND | 0.0012 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:14 | MFF |
| Carbon Disulfide | ND | 0.0075 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:14 | MFF |
| Carbon Tetrachloride | ND | 0.0025 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:14 | MFF |
| Chlorobenzene | ND | 0.0025 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:14 | MFF |
| Chlorodibromomethane | ND | 0.0012 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:14 | MFF |
| Chloroethane | ND | 0.025 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:14 | MFF |
| Chloroform | ND | 0.0050 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:14 | MFF |
| Chloromethane | ND | 0.012 | mg/Kg dry | 1 | L-04 | SW-846 8260C | 2/16/16 | 2/16/16 11:14 | MFF |
| 2-Chlorotoluene | ND | 0.0025 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:14 | MFF |
| 4-Chlorotoluene | ND | 0.0025 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:14 | MFF |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 0.0025 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:14 | MFF |
| 1,2-Dibromoethane (EDB) | ND | 0.0012 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:14 | MFF |
| Dibromomethane | ND | 0.0025 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:14 | MFF |
| 1,2-Dichlorobenzene | ND | 0.0025 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:14 | MFF |
| 1,3-Dichlorobenzene | ND | 0.0025 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:14 | MFF |
| 1,4-Dichlorobenzene | ND | 0.0025 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:14 | MFF |
| trans-1,4-Dichloro-2-butene | ND | 0.0050 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:14 | MFF |
| Dichlorodifluoromethane (Freon 12) | ND | 0.025 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:14 | MFF |
| 1,1-Dichloroethane | ND | 0.0025 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:14 | MFF |
| 1,2-Dichloroethane | ND | 0.0025 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:14 | MFF |
| 1,1-Dichloroethylene | ND | 0.0050 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:14 | MFF |
| cis-1,2-Dichloroethylene | ND | 0.0025 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:14 | MFF |
| trans-1,2-Dichloroethylene | ND | 0.0025 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:14 | MFF |
| 1,2-Dichloropropane | ND | 0.0025 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:14 | MFF |
| 1,3-Dichloropropane | ND | 0.0012 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:14 | MFF |
| 2,2-Dichloropropane | ND | 0.0025 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:14 | MFF |
| 1,1-Dichloropropene | ND | 0.0025 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:14 | MFF |
| cis-1,3-Dichloropropene | ND | 0.0012 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:14 | MFF |
| trans-1,3-Dichloropropene | ND | 0.0012 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:14 | MFF |
| Diethyl Ether | ND | 0.025 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:14 | MFF |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0628

Date Received: 2/15/2016

Field Sample #: SD-05

Sampled: 2/12/2016 08:20

Sample ID: 16B0628-05

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---------------------------------------------------|---------|--------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Diisopropyl Ether (DIPE) | ND | 0.0012 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:14 | MFF |
| 1,4-Dioxane | ND | 0.12 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:14 | MFF |
| Ethylbenzene | ND | 0.0025 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:14 | MFF |
| Hexachlorobutadiene | ND | 0.0025 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:14 | MFF |
| 2-Hexanone (MBK) | ND | 0.025 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:14 | MFF |
| Isopropylbenzene (Cumene) | ND | 0.0025 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:14 | MFF |
| p-Isopropyltoluene (p-Cymene) | ND | 0.0025 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:14 | MFF |
| Methyl tert-Butyl Ether (MTBE) | ND | 0.0050 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:14 | MFF |
| Methylene Chloride | ND | 0.025 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:14 | MFF |
| 4-Methyl-2-pentanone (MIBK) | ND | 0.025 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:14 | MFF |
| Naphthalene | ND | 0.0050 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:14 | MFF |
| n-Propylbenzene | ND | 0.0025 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:14 | MFF |
| Styrene | ND | 0.0025 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:14 | MFF |
| 1,1,1,2-Tetrachloroethane | ND | 0.0025 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:14 | MFF |
| 1,1,2,2-Tetrachloroethane | ND | 0.0012 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:14 | MFF |
| Tetrachloroethylene | ND | 0.0025 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:14 | MFF |
| Tetrahydrofuran | ND | 0.012 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:14 | MFF |
| Toluene | ND | 0.0025 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:14 | MFF |
| 1,2,3-Trichlorobenzene | ND | 0.0025 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:14 | MFF |
| 1,2,4-Trichlorobenzene | ND | 0.0025 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:14 | MFF |
| 1,3,5-Trichlorobenzene | ND | 0.0025 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:14 | MFF |
| 1,1,1-Trichloroethane | ND | 0.0025 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:14 | MFF |
| 1,1,2-Trichloroethane | ND | 0.0025 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:14 | MFF |
| Trichloroethylene | ND | 0.0025 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:14 | MFF |
| Trichlorofluoromethane (Freon 11) | ND | 0.012 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:14 | MFF |
| 1,2,3-Trichloropropane | ND | 0.0025 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:14 | MFF |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | ND | 0.012 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:14 | MFF |
| 1,2,4-Trimethylbenzene | ND | 0.0025 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:14 | MFF |
| 1,3,5-Trimethylbenzene | ND | 0.0025 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:14 | MFF |
| Vinyl Chloride | ND | 0.012 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:14 | MFF |
| m+p Xylene | ND | 0.0050 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:14 | MFF |
| o-Xylene | ND | 0.0025 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:14 | MFF |

| Surrogates | % Recovery | Recovery Limits | Flag/Qual |
|-----------------------|------------|-----------------|---------------|
| 1,2-Dichloroethane-d4 | 86.3 | 70-130 | 2/16/16 11:14 |
| Toluene-d8 | 97.7 | 70-130 | 2/16/16 11:14 |
| 4-Bromofluorobenzene | 96.6 | 70-130 | 2/16/16 11:14 |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0628

Date Received: 2/15/2016

Field Sample #: SD-05

Sampled: 2/12/2016 08:20

Sample ID: 16B0628-05

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|--------------------------|---------|------------|-----------------|----------|-----------|--------------|---------------|--------------------|---------|
| Aroclor-1016 [1] | ND | 0.13 | mg/Kg dry | 5 | | SW-846 8082A | 2/16/16 | 2/17/16 17:53 | KAL |
| Aroclor-1221 [1] | ND | 0.13 | mg/Kg dry | 5 | | SW-846 8082A | 2/16/16 | 2/17/16 17:53 | KAL |
| Aroclor-1232 [1] | ND | 0.13 | mg/Kg dry | 5 | | SW-846 8082A | 2/16/16 | 2/17/16 17:53 | KAL |
| Aroclor-1242 [1] | ND | 0.13 | mg/Kg dry | 5 | | SW-846 8082A | 2/16/16 | 2/17/16 17:53 | KAL |
| Aroclor-1248 [1] | ND | 0.13 | mg/Kg dry | 5 | | SW-846 8082A | 2/16/16 | 2/17/16 17:53 | KAL |
| Aroclor-1254 [2] | 0.22 | 0.13 | mg/Kg dry | 5 | | SW-846 8082A | 2/16/16 | 2/17/16 17:53 | KAL |
| Aroclor-1260 [1] | ND | 0.13 | mg/Kg dry | 5 | | SW-846 8082A | 2/16/16 | 2/17/16 17:53 | KAL |
| Aroclor-1262 [1] | ND | 0.13 | mg/Kg dry | 5 | | SW-846 8082A | 2/16/16 | 2/17/16 17:53 | KAL |
| Aroclor-1268 [1] | ND | 0.13 | mg/Kg dry | 5 | | SW-846 8082A | 2/16/16 | 2/17/16 17:53 | KAL |
| Surrogates | | % Recovery | Recovery Limits | | Flag/Qual | | | | |
| Decachlorobiphenyl [1] | | 74.3 | 30-150 | | | | | 2/17/16 17:53 | |
| Decachlorobiphenyl [2] | | 134 | 30-150 | | | | | 2/17/16 17:53 | |
| Tetrachloro-m-xylene [1] | | 67.3 | 30-150 | | | | | 2/17/16 17:53 | |
| Tetrachloro-m-xylene [2] | | 73.8 | 30-150 | | | | | 2/17/16 17:53 | |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0628

Date Received: 2/15/2016

Field Sample #: SD-05

Sampled: 2/12/2016 08:20

Sample ID: 16B0628-05

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|--------------|------------|----|-----------------|----------|-----------|----------------------|---------------|--------------------|---------|
| TPH (C9-C36) | 530 | 56 | mg/Kg dry | 5 | | SW-846 8100 Modified | 2/16/16 | 2/17/16 13:21 | SCS |
| Surrogates | % Recovery | | Recovery Limits | | Flag/Qual | | | | |
| o-Terphenyl | 76.6 | | 40-140 | | | | | 2/17/16 13:21 | |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0628

Date Received: 2/15/2016

Field Sample #: SD-05

Sampled: 2/12/2016 08:20

Sample ID: 16B0628-05

Sample Matrix: Soil

Metals Analyses (Total)

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|----------|---------|-------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Arsenic | 10 | 3.1 | mg/Kg dry | 1 | | SW-846 6010C | 2/16/16 | 2/17/16 21:05 | AME |
| Barium | 120 | 3.1 | mg/Kg dry | 1 | | SW-846 6010C | 2/16/16 | 2/17/16 21:05 | AME |
| Cadmium | 0.86 | 0.31 | mg/Kg dry | 1 | | SW-846 6010C | 2/16/16 | 2/17/16 21:05 | AME |
| Chromium | 21 | 0.63 | mg/Kg dry | 1 | | SW-846 6010C | 2/16/16 | 2/17/16 21:05 | AME |
| Lead | 130 | 0.94 | mg/Kg dry | 1 | | SW-846 6010C | 2/16/16 | 2/17/16 21:05 | AME |
| Mercury | 0.27 | 0.033 | mg/Kg dry | 1 | | SW-846 7471B | 2/16/16 | 2/17/16 9:52 | SCB |
| Selenium | ND | 6.3 | mg/Kg dry | 1 | | SW-846 6010C | 2/16/16 | 2/17/16 21:05 | AME |
| Silver | ND | 0.63 | mg/Kg dry | 1 | | SW-846 6010C | 2/16/16 | 2/17/16 21:05 | AME |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0628

Date Received: 2/15/2016

Field Sample #: SD-05

Sampled: 2/12/2016 08:20

Sample ID: 16B0628-05

Sample Matrix: Soil

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

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|---------------|--------------------|---------|
| % Solids | 75.0 | | % Wt | 1 | | SM 2540G | 2/16/16 | 2/17/16 8:00 | MRL |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0628

Date Received: 2/15/2016

Field Sample #: SD-06

Sampled: 2/12/2016 11:00

Sample ID: 16B0628-06

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|------------------------------------|---------|---------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Acetone | ND | 0.096 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:41 | MFF |
| Acrylonitrile | ND | 0.0058 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:41 | MFF |
| tert-Amyl Methyl Ether (TAME) | ND | 0.00096 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:41 | MFF |
| Benzene | ND | 0.0019 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:41 | MFF |
| Bromobenzene | ND | 0.0019 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:41 | MFF |
| Bromochloromethane | ND | 0.0019 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:41 | MFF |
| Bromodichloromethane | ND | 0.0019 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:41 | MFF |
| Bromoform | ND | 0.0019 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:41 | MFF |
| Bromomethane | ND | 0.0096 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:41 | MFF |
| 2-Butanone (MEK) | ND | 0.039 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:41 | MFF |
| tert-Butyl Alcohol (TBA) | ND | 0.039 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:41 | MFF |
| n-Butylbenzene | ND | 0.0019 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:41 | MFF |
| sec-Butylbenzene | ND | 0.0019 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:41 | MFF |
| tert-Butylbenzene | ND | 0.0019 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:41 | MFF |
| tert-Butyl Ethyl Ether (TBEE) | ND | 0.00096 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:41 | MFF |
| Carbon Disulfide | ND | 0.0058 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:41 | MFF |
| Carbon Tetrachloride | ND | 0.0019 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:41 | MFF |
| Chlorobenzene | ND | 0.0019 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:41 | MFF |
| Chlorodibromomethane | ND | 0.00096 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:41 | MFF |
| Chloroethane | ND | 0.019 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:41 | MFF |
| Chloroform | ND | 0.0039 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:41 | MFF |
| Chloromethane | ND | 0.0096 | mg/Kg dry | 1 | L-04 | SW-846 8260C | 2/16/16 | 2/16/16 11:41 | MFF |
| 2-Chlorotoluene | ND | 0.0019 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:41 | MFF |
| 4-Chlorotoluene | ND | 0.0019 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:41 | MFF |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 0.0019 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:41 | MFF |
| 1,2-Dibromoethane (EDB) | ND | 0.00096 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:41 | MFF |
| Dibromomethane | ND | 0.0019 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:41 | MFF |
| 1,2-Dichlorobenzene | ND | 0.0019 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:41 | MFF |
| 1,3-Dichlorobenzene | ND | 0.0019 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:41 | MFF |
| 1,4-Dichlorobenzene | ND | 0.0019 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:41 | MFF |
| trans-1,4-Dichloro-2-butene | ND | 0.0039 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:41 | MFF |
| Dichlorodifluoromethane (Freon 12) | ND | 0.019 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:41 | MFF |
| 1,1-Dichloroethane | ND | 0.0019 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:41 | MFF |
| 1,2-Dichloroethane | ND | 0.0019 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:41 | MFF |
| 1,1-Dichloroethylene | ND | 0.0039 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:41 | MFF |
| cis-1,2-Dichloroethylene | ND | 0.0019 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:41 | MFF |
| trans-1,2-Dichloroethylene | ND | 0.0019 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:41 | MFF |
| 1,2-Dichloropropane | ND | 0.0019 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:41 | MFF |
| 1,3-Dichloropropane | ND | 0.00096 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:41 | MFF |
| 2,2-Dichloropropane | ND | 0.0019 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:41 | MFF |
| 1,1-Dichloropropene | ND | 0.0019 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:41 | MFF |
| cis-1,3-Dichloropropene | ND | 0.00096 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:41 | MFF |
| trans-1,3-Dichloropropene | ND | 0.00096 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:41 | MFF |
| Diethyl Ether | ND | 0.019 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:41 | MFF |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0628

Date Received: 2/15/2016

Field Sample #: SD-06

Sampled: 2/12/2016 11:00

Sample ID: 16B0628-06

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---------------------------------------------------|---------|---------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Diisopropyl Ether (DIPE) | ND | 0.00096 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:41 | MFF |
| 1,4-Dioxane | ND | 0.096 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:41 | MFF |
| Ethylbenzene | ND | 0.0019 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:41 | MFF |
| Hexachlorobutadiene | ND | 0.0019 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:41 | MFF |
| 2-Hexanone (MBK) | ND | 0.019 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:41 | MFF |
| Isopropylbenzene (Cumene) | ND | 0.0019 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:41 | MFF |
| p-Isopropyltoluene (p-Cymene) | ND | 0.0019 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:41 | MFF |
| Methyl tert-Butyl Ether (MTBE) | ND | 0.0039 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:41 | MFF |
| Methylene Chloride | ND | 0.019 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:41 | MFF |
| 4-Methyl-2-pentanone (MIBK) | ND | 0.019 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:41 | MFF |
| Naphthalene | ND | 0.0039 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:41 | MFF |
| n-Propylbenzene | ND | 0.0019 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:41 | MFF |
| Styrene | ND | 0.0019 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:41 | MFF |
| 1,1,1,2-Tetrachloroethane | ND | 0.0019 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:41 | MFF |
| 1,1,2,2-Tetrachloroethane | ND | 0.00096 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:41 | MFF |
| Tetrachloroethylene | ND | 0.0019 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:41 | MFF |
| Tetrahydrofuran | ND | 0.0096 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:41 | MFF |
| Toluene | ND | 0.0019 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:41 | MFF |
| 1,2,3-Trichlorobenzene | ND | 0.0019 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:41 | MFF |
| 1,2,4-Trichlorobenzene | ND | 0.0019 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:41 | MFF |
| 1,3,5-Trichlorobenzene | ND | 0.0019 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:41 | MFF |
| 1,1,1-Trichloroethane | ND | 0.0019 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:41 | MFF |
| 1,1,2-Trichloroethane | ND | 0.0019 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:41 | MFF |
| Trichloroethylene | ND | 0.0019 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:41 | MFF |
| Trichlorofluoromethane (Freon 11) | ND | 0.0096 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:41 | MFF |
| 1,2,3-Trichloropropane | ND | 0.0019 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:41 | MFF |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | ND | 0.0096 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:41 | MFF |
| 1,2,4-Trimethylbenzene | ND | 0.0019 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:41 | MFF |
| 1,3,5-Trimethylbenzene | ND | 0.0019 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:41 | MFF |
| Vinyl Chloride | ND | 0.0096 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:41 | MFF |
| m+p Xylene | ND | 0.0039 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:41 | MFF |
| o-Xylene | ND | 0.0019 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 11:41 | MFF |

| Surrogates | % Recovery | Recovery Limits | Flag/Qual |
|-----------------------|------------|-----------------|---------------|
| 1,2-Dichloroethane-d4 | 86.4 | 70-130 | 2/16/16 11:41 |
| Toluene-d8 | 96.6 | 70-130 | 2/16/16 11:41 |
| 4-Bromofluorobenzene | 97.1 | 70-130 | 2/16/16 11:41 |

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Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0628

Date Received: 2/15/2016

Field Sample #: SD-06

Sampled: 2/12/2016 11:00

Sample ID: 16B0628-06

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|--------------------------|---------|------------|-----------------|----------|-----------|--------------|---------------|--------------------|---------|
| Aroclor-1016 [1] | ND | 0.12 | mg/Kg dry | 5 | | SW-846 8082A | 2/16/16 | 2/17/16 18:06 | KAL |
| Aroclor-1221 [1] | ND | 0.12 | mg/Kg dry | 5 | | SW-846 8082A | 2/16/16 | 2/17/16 18:06 | KAL |
| Aroclor-1232 [1] | ND | 0.12 | mg/Kg dry | 5 | | SW-846 8082A | 2/16/16 | 2/17/16 18:06 | KAL |
| Aroclor-1242 [1] | ND | 0.12 | mg/Kg dry | 5 | | SW-846 8082A | 2/16/16 | 2/17/16 18:06 | KAL |
| Aroclor-1248 [1] | 0.15 | 0.12 | mg/Kg dry | 5 | | SW-846 8082A | 2/16/16 | 2/17/16 18:06 | KAL |
| Aroclor-1254 [2] | 0.20 | 0.12 | mg/Kg dry | 5 | | SW-846 8082A | 2/16/16 | 2/17/16 18:06 | KAL |
| Aroclor-1260 [1] | ND | 0.12 | mg/Kg dry | 5 | | SW-846 8082A | 2/16/16 | 2/17/16 18:06 | KAL |
| Aroclor-1262 [1] | ND | 0.12 | mg/Kg dry | 5 | | SW-846 8082A | 2/16/16 | 2/17/16 18:06 | KAL |
| Aroclor-1268 [1] | ND | 0.12 | mg/Kg dry | 5 | | SW-846 8082A | 2/16/16 | 2/17/16 18:06 | KAL |
| Surrogates | | % Recovery | Recovery Limits | | Flag/Qual | | | | |
| Decachlorobiphenyl [1] | | 84.8 | 30-150 | | | | | 2/17/16 18:06 | |
| Decachlorobiphenyl [2] | | 93.3 | 30-150 | | | | | 2/17/16 18:06 | |
| Tetrachloro-m-xylene [1] | | 87.5 | 30-150 | | | | | 2/17/16 18:06 | |
| Tetrachloro-m-xylene [2] | | 92.1 | 30-150 | | | | | 2/17/16 18:06 | |

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Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0628

Date Received: 2/15/2016

Field Sample #: SD-06

Sampled: 2/12/2016 11:00

Sample ID: 16B0628-06

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|--------------|------------|----|-----------------|----------|-----------|----------------------|---------------|--------------------|---------|
| TPH (C9-C36) | 230 | 51 | mg/Kg dry | 5 | | SW-846 8100 Modified | 2/16/16 | 2/17/16 13:38 | SCS |
| Surrogates | % Recovery | | Recovery Limits | | Flag/Qual | | | | |
| o-Terphenyl | 87.6 | | 40-140 | | | | | 2/17/16 13:38 | |

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Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0628

Date Received: 2/15/2016

Field Sample #: SD-06

Sampled: 2/12/2016 11:00

Sample ID: 16B0628-06

Sample Matrix: Soil

Metals Analyses (Total)

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|----------|---------|-------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Arsenic | ND | 3.0 | mg/Kg dry | 1 | | SW-846 6010C | 2/16/16 | 2/17/16 21:10 | AME |
| Barium | 25 | 3.0 | mg/Kg dry | 1 | | SW-846 6010C | 2/16/16 | 2/17/16 21:10 | AME |
| Cadmium | 0.67 | 0.30 | mg/Kg dry | 1 | | SW-846 6010C | 2/16/16 | 2/17/16 21:10 | AME |
| Chromium | 11 | 0.61 | mg/Kg dry | 1 | | SW-846 6010C | 2/16/16 | 2/17/16 21:10 | AME |
| Lead | 50 | 0.91 | mg/Kg dry | 1 | | SW-846 6010C | 2/16/16 | 2/17/16 21:10 | AME |
| Mercury | 0.12 | 0.028 | mg/Kg dry | 1 | | SW-846 7471B | 2/16/16 | 2/17/16 9:57 | SCB |
| Selenium | ND | 6.1 | mg/Kg dry | 1 | | SW-846 6010C | 2/16/16 | 2/17/16 21:10 | AME |
| Silver | ND | 0.61 | mg/Kg dry | 1 | | SW-846 6010C | 2/16/16 | 2/17/16 21:10 | AME |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0628

Date Received: 2/15/2016

Field Sample #: SD-06

Sampled: 2/12/2016 11:00

Sample ID: 16B0628-06

Sample Matrix: Soil

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

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|---------------|--------------------|---------|
| % Solids | 81.7 | | % Wt | 1 | | SM 2540G | 2/16/16 | 2/17/16 8:00 | MRL |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0628

Date Received: 2/15/2016

Field Sample #: SD-07

Sampled: 2/12/2016 11:10

Sample ID: 16B0628-07

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|------------------------------------|---------|--------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Acetone | ND | 0.11 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:08 | MFF |
| Acrylonitrile | ND | 0.0065 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:08 | MFF |
| tert-Amyl Methyl Ether (TAME) | ND | 0.0011 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:08 | MFF |
| Benzene | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:08 | MFF |
| Bromobenzene | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:08 | MFF |
| Bromochloromethane | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:08 | MFF |
| Bromodichloromethane | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:08 | MFF |
| Bromoform | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:08 | MFF |
| Bromomethane | ND | 0.011 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:08 | MFF |
| 2-Butanone (MEK) | ND | 0.043 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:08 | MFF |
| tert-Butyl Alcohol (TBA) | ND | 0.043 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:08 | MFF |
| n-Butylbenzene | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:08 | MFF |
| sec-Butylbenzene | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:08 | MFF |
| tert-Butylbenzene | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:08 | MFF |
| tert-Butyl Ethyl Ether (TBEE) | ND | 0.0011 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:08 | MFF |
| Carbon Disulfide | ND | 0.0065 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:08 | MFF |
| Carbon Tetrachloride | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:08 | MFF |
| Chlorobenzene | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:08 | MFF |
| Chlorodibromomethane | ND | 0.0011 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:08 | MFF |
| Chloroethane | ND | 0.022 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:08 | MFF |
| Chloroform | ND | 0.0043 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:08 | MFF |
| Chloromethane | ND | 0.011 | mg/Kg dry | 1 | L-04 | SW-846 8260C | 2/16/16 | 2/16/16 12:08 | MFF |
| 2-Chlorotoluene | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:08 | MFF |
| 4-Chlorotoluene | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:08 | MFF |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:08 | MFF |
| 1,2-Dibromoethane (EDB) | ND | 0.0011 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:08 | MFF |
| Dibromomethane | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:08 | MFF |
| 1,2-Dichlorobenzene | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:08 | MFF |
| 1,3-Dichlorobenzene | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:08 | MFF |
| 1,4-Dichlorobenzene | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:08 | MFF |
| trans-1,4-Dichloro-2-butene | ND | 0.0043 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:08 | MFF |
| Dichlorodifluoromethane (Freon 12) | ND | 0.022 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:08 | MFF |
| 1,1-Dichloroethane | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:08 | MFF |
| 1,2-Dichloroethane | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:08 | MFF |
| 1,1-Dichloroethylene | ND | 0.0043 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:08 | MFF |
| cis-1,2-Dichloroethylene | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:08 | MFF |
| trans-1,2-Dichloroethylene | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:08 | MFF |
| 1,2-Dichloropropane | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:08 | MFF |
| 1,3-Dichloropropane | ND | 0.0011 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:08 | MFF |
| 2,2-Dichloropropane | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:08 | MFF |
| 1,1-Dichloropropene | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:08 | MFF |
| cis-1,3-Dichloropropene | ND | 0.0011 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:08 | MFF |
| trans-1,3-Dichloropropene | ND | 0.0011 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:08 | MFF |
| Diethyl Ether | ND | 0.022 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:08 | MFF |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0628

Date Received: 2/15/2016

Field Sample #: SD-07

Sampled: 2/12/2016 11:10

Sample ID: 16B0628-07

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---------------------------------------------------|---------|--------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Diisopropyl Ether (DIPE) | ND | 0.0011 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:08 | MFF |
| 1,4-Dioxane | ND | 0.11 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:08 | MFF |
| Ethylbenzene | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:08 | MFF |
| Hexachlorobutadiene | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:08 | MFF |
| 2-Hexanone (MBK) | ND | 0.022 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:08 | MFF |
| Isopropylbenzene (Cumene) | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:08 | MFF |
| p-Isopropyltoluene (p-Cymene) | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:08 | MFF |
| Methyl tert-Butyl Ether (MTBE) | ND | 0.0043 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:08 | MFF |
| Methylene Chloride | ND | 0.022 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:08 | MFF |
| 4-Methyl-2-pentanone (MIBK) | ND | 0.022 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:08 | MFF |
| Naphthalene | ND | 0.0043 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:08 | MFF |
| n-Propylbenzene | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:08 | MFF |
| Styrene | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:08 | MFF |
| 1,1,1,2-Tetrachloroethane | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:08 | MFF |
| 1,1,2,2-Tetrachloroethane | ND | 0.0011 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:08 | MFF |
| Tetrachloroethylene | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:08 | MFF |
| Tetrahydrofuran | ND | 0.011 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:08 | MFF |
| Toluene | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:08 | MFF |
| 1,2,3-Trichlorobenzene | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:08 | MFF |
| 1,2,4-Trichlorobenzene | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:08 | MFF |
| 1,3,5-Trichlorobenzene | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:08 | MFF |
| 1,1,1-Trichloroethane | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:08 | MFF |
| 1,1,2-Trichloroethane | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:08 | MFF |
| Trichloroethylene | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:08 | MFF |
| Trichlorofluoromethane (Freon 11) | ND | 0.011 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:08 | MFF |
| 1,2,3-Trichloropropane | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:08 | MFF |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | ND | 0.011 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:08 | MFF |
| 1,2,4-Trimethylbenzene | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:08 | MFF |
| 1,3,5-Trimethylbenzene | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:08 | MFF |
| Vinyl Chloride | ND | 0.011 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:08 | MFF |
| m+p Xylene | ND | 0.0043 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:08 | MFF |
| o-Xylene | ND | 0.0022 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:08 | MFF |

| Surrogates | % Recovery | Recovery Limits | Flag/Qual |
|-----------------------|------------|-----------------|---------------|
| 1,2-Dichloroethane-d4 | 87.0 | 70-130 | 2/16/16 12:08 |
| Toluene-d8 | 96.1 | 70-130 | 2/16/16 12:08 |
| 4-Bromofluorobenzene | 96.6 | 70-130 | 2/16/16 12:08 |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0628

Date Received: 2/15/2016

Field Sample #: SD-07

Sampled: 2/12/2016 11:10

Sample ID: 16B0628-07

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|--------------------------|---------|------------|-----------------|----------|-----------|--------------|---------------|--------------------|---------|
| Aroclor-1016 [1] | ND | 0.12 | mg/Kg dry | 5 | | SW-846 8082A | 2/16/16 | 2/17/16 18:19 | KAL |
| Aroclor-1221 [1] | ND | 0.12 | mg/Kg dry | 5 | | SW-846 8082A | 2/16/16 | 2/17/16 18:19 | KAL |
| Aroclor-1232 [1] | ND | 0.12 | mg/Kg dry | 5 | | SW-846 8082A | 2/16/16 | 2/17/16 18:19 | KAL |
| Aroclor-1242 [1] | ND | 0.12 | mg/Kg dry | 5 | | SW-846 8082A | 2/16/16 | 2/17/16 18:19 | KAL |
| Aroclor-1248 [1] | 0.23 | 0.12 | mg/Kg dry | 5 | | SW-846 8082A | 2/16/16 | 2/17/16 18:19 | KAL |
| Aroclor-1254 [2] | 0.28 | 0.12 | mg/Kg dry | 5 | | SW-846 8082A | 2/16/16 | 2/17/16 18:19 | KAL |
| Aroclor-1260 [1] | ND | 0.12 | mg/Kg dry | 5 | | SW-846 8082A | 2/16/16 | 2/17/16 18:19 | KAL |
| Aroclor-1262 [1] | ND | 0.12 | mg/Kg dry | 5 | | SW-846 8082A | 2/16/16 | 2/17/16 18:19 | KAL |
| Aroclor-1268 [1] | ND | 0.12 | mg/Kg dry | 5 | | SW-846 8082A | 2/16/16 | 2/17/16 18:19 | KAL |
| Surrogates | | % Recovery | Recovery Limits | | Flag/Qual | | | | |
| Decachlorobiphenyl [1] | | 89.4 | 30-150 | | | | | 2/17/16 18:19 | |
| Decachlorobiphenyl [2] | | 94.6 | 30-150 | | | | | 2/17/16 18:19 | |
| Tetrachloro-m-xylene [1] | | 96.8 | 30-150 | | | | | 2/17/16 18:19 | |
| Tetrachloro-m-xylene [2] | | 102 | 30-150 | | | | | 2/17/16 18:19 | |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0628

Date Received: 2/15/2016

Field Sample #: SD-07

Sampled: 2/12/2016 11:10

Sample ID: 16B0628-07

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|--------------|------------|----|-----------------|----------|-----------|----------------------|---------------|--------------------|---------|
| TPH (C9-C36) | 210 | 52 | mg/Kg dry | 5 | | SW-846 8100 Modified | 2/16/16 | 2/17/16 14:31 | SCS |
| Surrogates | % Recovery | | Recovery Limits | | Flag/Qual | | | | |
| o-Terphenyl | 84.6 | | 40-140 | | | | | 2/17/16 14:31 | |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0628

Date Received: 2/15/2016

Field Sample #: SD-07

Sampled: 2/12/2016 11:10

Sample ID: 16B0628-07

Sample Matrix: Soil

Metals Analyses (Total)

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|----------|---------|-------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Arsenic | ND | 2.9 | mg/Kg dry | 1 | | SW-846 6010C | 2/16/16 | 2/17/16 21:16 | AME |
| Barium | 180 | 2.9 | mg/Kg dry | 1 | | SW-846 6010C | 2/16/16 | 2/17/16 21:16 | AME |
| Cadmium | 1.2 | 0.29 | mg/Kg dry | 1 | | SW-846 6010C | 2/16/16 | 2/17/16 21:16 | AME |
| Chromium | 8.8 | 0.58 | mg/Kg dry | 1 | | SW-846 6010C | 2/16/16 | 2/17/16 21:16 | AME |
| Lead | 140 | 0.87 | mg/Kg dry | 1 | | SW-846 6010C | 2/16/16 | 2/17/16 21:16 | AME |
| Mercury | 0.19 | 0.030 | mg/Kg dry | 1 | | SW-846 7471B | 2/16/16 | 2/17/16 9:59 | SCB |
| Selenium | ND | 5.8 | mg/Kg dry | 1 | | SW-846 6010C | 2/16/16 | 2/17/16 21:16 | AME |
| Silver | ND | 0.58 | mg/Kg dry | 1 | | SW-846 6010C | 2/16/16 | 2/17/16 21:16 | AME |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0628

Date Received: 2/15/2016

Field Sample #: SD-07

Sampled: 2/12/2016 11:10

Sample ID: 16B0628-07

Sample Matrix: Soil

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

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|---------------|--------------------|---------|
| % Solids | 80.6 | | % Wt | 1 | | SM 2540G | 2/16/16 | 2/17/16 8:00 | MRL |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0628

Date Received: 2/15/2016

Field Sample #: SD-08

Sampled: 2/12/2016 08:25

Sample ID: 16B0628-08

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|------------------------------------|---------|--------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Acetone | ND | 0.12 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:36 | MFF |
| Acrylonitrile | ND | 0.0069 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:36 | MFF |
| tert-Amyl Methyl Ether (TAME) | ND | 0.0012 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:36 | MFF |
| Benzene | ND | 0.0023 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:36 | MFF |
| Bromobenzene | ND | 0.0023 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:36 | MFF |
| Bromochloromethane | ND | 0.0023 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:36 | MFF |
| Bromodichloromethane | ND | 0.0023 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:36 | MFF |
| Bromoform | ND | 0.0023 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:36 | MFF |
| Bromomethane | ND | 0.012 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:36 | MFF |
| 2-Butanone (MEK) | ND | 0.046 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:36 | MFF |
| tert-Butyl Alcohol (TBA) | ND | 0.046 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:36 | MFF |
| n-Butylbenzene | ND | 0.0023 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:36 | MFF |
| sec-Butylbenzene | ND | 0.0023 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:36 | MFF |
| tert-Butylbenzene | ND | 0.0023 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:36 | MFF |
| tert-Butyl Ethyl Ether (TBEE) | ND | 0.0012 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:36 | MFF |
| Carbon Disulfide | ND | 0.0069 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:36 | MFF |
| Carbon Tetrachloride | ND | 0.0023 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:36 | MFF |
| Chlorobenzene | ND | 0.0023 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:36 | MFF |
| Chlorodibromomethane | ND | 0.0012 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:36 | MFF |
| Chloroethane | ND | 0.023 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:36 | MFF |
| Chloroform | ND | 0.0046 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:36 | MFF |
| Chloromethane | ND | 0.012 | mg/Kg dry | 1 | L-04 | SW-846 8260C | 2/16/16 | 2/16/16 12:36 | MFF |
| 2-Chlorotoluene | ND | 0.0023 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:36 | MFF |
| 4-Chlorotoluene | ND | 0.0023 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:36 | MFF |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 0.0023 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:36 | MFF |
| 1,2-Dibromoethane (EDB) | ND | 0.0012 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:36 | MFF |
| Dibromomethane | ND | 0.0023 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:36 | MFF |
| 1,2-Dichlorobenzene | ND | 0.0023 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:36 | MFF |
| 1,3-Dichlorobenzene | ND | 0.0023 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:36 | MFF |
| 1,4-Dichlorobenzene | ND | 0.0023 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:36 | MFF |
| trans-1,4-Dichloro-2-butene | ND | 0.0046 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:36 | MFF |
| Dichlorodifluoromethane (Freon 12) | ND | 0.023 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:36 | MFF |
| 1,1-Dichloroethane | ND | 0.0023 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:36 | MFF |
| 1,2-Dichloroethane | ND | 0.0023 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:36 | MFF |
| 1,1-Dichloroethylene | ND | 0.0046 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:36 | MFF |
| cis-1,2-Dichloroethylene | ND | 0.0023 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:36 | MFF |
| trans-1,2-Dichloroethylene | ND | 0.0023 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:36 | MFF |
| 1,2-Dichloropropane | ND | 0.0023 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:36 | MFF |
| 1,3-Dichloropropane | ND | 0.0012 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:36 | MFF |
| 2,2-Dichloropropane | ND | 0.0023 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:36 | MFF |
| 1,1-Dichloropropene | ND | 0.0023 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:36 | MFF |
| cis-1,3-Dichloropropene | ND | 0.0012 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:36 | MFF |
| trans-1,3-Dichloropropene | ND | 0.0012 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:36 | MFF |
| Diethyl Ether | ND | 0.023 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:36 | MFF |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0628

Date Received: 2/15/2016

Field Sample #: SD-08

Sampled: 2/12/2016 08:25

Sample ID: 16B0628-08

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---------------------------------------------------|---------|--------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Diisopropyl Ether (DIPE) | ND | 0.0012 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:36 | MFF |
| 1,4-Dioxane | ND | 0.12 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:36 | MFF |
| Ethylbenzene | ND | 0.0023 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:36 | MFF |
| Hexachlorobutadiene | ND | 0.0023 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:36 | MFF |
| 2-Hexanone (MBK) | ND | 0.023 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:36 | MFF |
| Isopropylbenzene (Cumene) | ND | 0.0023 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:36 | MFF |
| p-Isopropyltoluene (p-Cymene) | ND | 0.0023 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:36 | MFF |
| Methyl tert-Butyl Ether (MTBE) | ND | 0.0046 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:36 | MFF |
| Methylene Chloride | ND | 0.023 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:36 | MFF |
| 4-Methyl-2-pentanone (MIBK) | ND | 0.023 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:36 | MFF |
| Naphthalene | ND | 0.0046 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:36 | MFF |
| n-Propylbenzene | ND | 0.0023 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:36 | MFF |
| Styrene | ND | 0.0023 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:36 | MFF |
| 1,1,1,2-Tetrachloroethane | ND | 0.0023 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:36 | MFF |
| 1,1,2,2-Tetrachloroethane | ND | 0.0012 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:36 | MFF |
| Tetrachloroethylene | ND | 0.0023 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:36 | MFF |
| Tetrahydrofuran | ND | 0.012 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:36 | MFF |
| Toluene | ND | 0.0023 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:36 | MFF |
| 1,2,3-Trichlorobenzene | ND | 0.0023 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:36 | MFF |
| 1,2,4-Trichlorobenzene | ND | 0.0023 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:36 | MFF |
| 1,3,5-Trichlorobenzene | ND | 0.0023 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:36 | MFF |
| 1,1,1-Trichloroethane | ND | 0.0023 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:36 | MFF |
| 1,1,2-Trichloroethane | ND | 0.0023 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:36 | MFF |
| Trichloroethylene | ND | 0.0023 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:36 | MFF |
| Trichlorofluoromethane (Freon 11) | ND | 0.012 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:36 | MFF |
| 1,2,3-Trichloropropane | ND | 0.0023 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:36 | MFF |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | ND | 0.012 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:36 | MFF |
| 1,2,4-Trimethylbenzene | ND | 0.0023 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:36 | MFF |
| 1,3,5-Trimethylbenzene | ND | 0.0023 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:36 | MFF |
| Vinyl Chloride | ND | 0.012 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:36 | MFF |
| m+p Xylene | ND | 0.0046 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:36 | MFF |
| o-Xylene | ND | 0.0023 | mg/Kg dry | 1 | | SW-846 8260C | 2/16/16 | 2/16/16 12:36 | MFF |

| Surrogates | % Recovery | Recovery Limits | Flag/Qual |
|-----------------------|------------|-----------------|---------------|
| 1,2-Dichloroethane-d4 | 85.9 | 70-130 | 2/16/16 12:36 |
| Toluene-d8 | 97.0 | 70-130 | 2/16/16 12:36 |
| 4-Bromofluorobenzene | 96.8 | 70-130 | 2/16/16 12:36 |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0628

Date Received: 2/15/2016

Field Sample #: SD-08

Sampled: 2/12/2016 08:25

Sample ID: 16B0628-08

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|--------------------------|---------|------------|-----------------|----------|-----------|--------------|---------------|--------------------|---------|
| Aroclor-1016 [1] | ND | 0.13 | mg/Kg dry | 5 | | SW-846 8082A | 2/16/16 | 2/17/16 18:32 | KAL |
| Aroclor-1221 [1] | ND | 0.13 | mg/Kg dry | 5 | | SW-846 8082A | 2/16/16 | 2/17/16 18:32 | KAL |
| Aroclor-1232 [1] | ND | 0.13 | mg/Kg dry | 5 | | SW-846 8082A | 2/16/16 | 2/17/16 18:32 | KAL |
| Aroclor-1242 [1] | ND | 0.13 | mg/Kg dry | 5 | | SW-846 8082A | 2/16/16 | 2/17/16 18:32 | KAL |
| Aroclor-1248 [1] | ND | 0.13 | mg/Kg dry | 5 | | SW-846 8082A | 2/16/16 | 2/17/16 18:32 | KAL |
| Aroclor-1254 [1] | ND | 0.13 | mg/Kg dry | 5 | | SW-846 8082A | 2/16/16 | 2/17/16 18:32 | KAL |
| Aroclor-1260 [1] | 0.15 | 0.13 | mg/Kg dry | 5 | | SW-846 8082A | 2/16/16 | 2/17/16 18:32 | KAL |
| Aroclor-1262 [1] | ND | 0.13 | mg/Kg dry | 5 | | SW-846 8082A | 2/16/16 | 2/17/16 18:32 | KAL |
| Aroclor-1268 [1] | ND | 0.13 | mg/Kg dry | 5 | | SW-846 8082A | 2/16/16 | 2/17/16 18:32 | KAL |
| Surrogates | | % Recovery | Recovery Limits | | Flag/Qual | | | | |
| Decachlorobiphenyl [1] | | 85.7 | 30-150 | | | | | 2/17/16 18:32 | |
| Decachlorobiphenyl [2] | | 94.1 | 30-150 | | | | | 2/17/16 18:32 | |
| Tetrachloro-m-xylene [1] | | 90.0 | 30-150 | | | | | 2/17/16 18:32 | |
| Tetrachloro-m-xylene [2] | | 99.9 | 30-150 | | | | | 2/17/16 18:32 | |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0628

Date Received: 2/15/2016

Field Sample #: SD-08

Sampled: 2/12/2016 08:25

Sample ID: 16B0628-08

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|--------------|------------|------|-----------------|----------|-----------|----------------------|---------------|--------------------|---------|
| TPH (C9-C36) | 140 | 54 | mg/Kg dry | 5 | | SW-846 8100 Modified | 2/16/16 | 2/17/16 14:31 | SCS |
| Surrogates | % Recovery | | Recovery Limits | | Flag/Qual | | | | |
| o-Terphenyl | | 76.7 | | 40-140 | | | | 2/17/16 14:31 | |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0628

Date Received: 2/15/2016

Field Sample #: SD-08

Sampled: 2/12/2016 08:25

Sample ID: 16B0628-08

Sample Matrix: Soil

Metals Analyses (Total)

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|----------|---------|-------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Arsenic | ND | 3.1 | mg/Kg dry | 1 | | SW-846 6010C | 2/16/16 | 2/17/16 21:21 | AME |
| Barium | 15 | 3.1 | mg/Kg dry | 1 | | SW-846 6010C | 2/16/16 | 2/17/16 21:21 | AME |
| Cadmium | 0.32 | 0.31 | mg/Kg dry | 1 | | SW-846 6010C | 2/16/16 | 2/17/16 21:21 | AME |
| Chromium | 8.8 | 0.62 | mg/Kg dry | 1 | | SW-846 6010C | 2/16/16 | 2/17/16 21:21 | AME |
| Lead | 76 | 0.93 | mg/Kg dry | 1 | | SW-846 6010C | 2/16/16 | 2/17/16 21:21 | AME |
| Mercury | 0.057 | 0.030 | mg/Kg dry | 1 | | SW-846 7471B | 2/16/16 | 2/17/16 10:00 | SCB |
| Selenium | ND | 6.2 | mg/Kg dry | 1 | | SW-846 6010C | 2/16/16 | 2/17/16 21:21 | AME |
| Silver | ND | 0.62 | mg/Kg dry | 1 | | SW-846 6010C | 2/16/16 | 2/17/16 21:21 | AME |

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

Project Location: 434 Allens Ave., Providence, RI

Sample Description:

Work Order: 16B0628

Date Received: 2/15/2016

Sampled: 2/12/2016 08:25

Field Sample #: SD-08

Sample ID: 16B0628-08

Sample Matrix: Soil

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

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|---------------|--------------------|---------|
| % Solids | 77.2 | | % Wt | 1 | | SM 2540G | 2/16/16 | 2/17/16 8:00 | MRL |

Sample Extraction Data

Prep Method: % Solids-SM 2540G

| Lab Number [Field ID] | Batch | Date |
|-----------------------|---------|----------|
| 16B0628-01 [SD-01] | B142226 | 02/16/16 |
| 16B0628-02 [SD-02] | B142226 | 02/16/16 |
| 16B0628-03 [SD-03] | B142226 | 02/16/16 |
| 16B0628-04 [SD-04] | B142226 | 02/16/16 |
| 16B0628-05 [SD-05] | B142226 | 02/16/16 |
| 16B0628-06 [SD-06] | B142226 | 02/16/16 |
| 16B0628-07 [SD-07] | B142226 | 02/16/16 |
| 16B0628-08 [SD-08] | B142226 | 02/16/16 |

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

| Lab Number [Field ID] | Batch | Initial [g] | Final [mL] | Date |
|-----------------------|---------|-------------|------------|----------|
| 16B0628-01 [SD-01] | B142272 | 1.05 | 50.0 | 02/16/16 |
| 16B0628-02 [SD-02] | B142272 | 1.06 | 50.0 | 02/16/16 |
| 16B0628-03 [SD-03] | B142272 | 1.02 | 50.0 | 02/16/16 |
| 16B0628-04 [SD-04] | B142272 | 1.04 | 50.0 | 02/16/16 |
| 16B0628-05 [SD-05] | B142272 | 1.06 | 50.0 | 02/16/16 |
| 16B0628-06 [SD-06] | B142272 | 1.00 | 50.0 | 02/16/16 |
| 16B0628-07 [SD-07] | B142272 | 1.07 | 50.0 | 02/16/16 |
| 16B0628-08 [SD-08] | B142272 | 1.04 | 50.0 | 02/16/16 |

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

| Lab Number [Field ID] | Batch | Initial [g] | Final [mL] | Date |
|-----------------------|---------|-------------|------------|----------|
| 16B0628-01 [SD-01] | B142234 | 0.607 | 50.0 | 02/16/16 |
| 16B0628-02 [SD-02] | B142234 | 0.647 | 50.0 | 02/16/16 |
| 16B0628-03 [SD-03] | B142234 | 0.646 | 50.0 | 02/16/16 |
| 16B0628-04 [SD-04] | B142234 | 0.627 | 50.0 | 02/16/16 |
| 16B0628-05 [SD-05] | B142234 | 0.615 | 50.0 | 02/16/16 |
| 16B0628-06 [SD-06] | B142234 | 0.646 | 50.0 | 02/16/16 |
| 16B0628-07 [SD-07] | B142234 | 0.625 | 50.0 | 02/16/16 |
| 16B0628-08 [SD-08] | B142234 | 0.655 | 50.0 | 02/16/16 |

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

| Lab Number [Field ID] | Batch | Initial [g] | Final [mL] | Date |
|-----------------------|---------|-------------|------------|----------|
| 16B0628-01 [SD-01] | B142207 | 10.0 | 10.0 | 02/16/16 |
| 16B0628-02 [SD-02] | B142207 | 10.0 | 10.0 | 02/16/16 |
| 16B0628-03 [SD-03] | B142207 | 10.0 | 10.0 | 02/16/16 |
| 16B0628-04 [SD-04] | B142207 | 10.0 | 10.0 | 02/16/16 |
| 16B0628-05 [SD-05] | B142207 | 10.0 | 10.0 | 02/16/16 |
| 16B0628-06 [SD-06] | B142207 | 10.0 | 10.0 | 02/16/16 |
| 16B0628-07 [SD-07] | B142207 | 10.0 | 10.0 | 02/16/16 |
| 16B0628-08 [SD-08] | B142207 | 10.0 | 10.0 | 02/16/16 |

Prep Method: SW-846 3546-SW-846 8100 Modified

| Lab Number [Field ID] | Batch | Initial [g] | Final [mL] | Date |
|-----------------------|---------|-------------|------------|----------|
| 16B0628-01 [SD-01] | B142210 | 30.0 | 1.00 | 02/16/16 |
| 16B0628-02 [SD-02] | B142210 | 30.0 | 1.00 | 02/16/16 |

Sample Extraction Data

Prep Method: SW-846 3546-SW-846 8100 Modified

| Lab Number [Field ID] | Batch | Initial [g] | Final [mL] | Date |
|-----------------------|---------|-------------|------------|----------|
| 16B0628-03 [SD-03] | B142210 | 30.0 | 1.00 | 02/16/16 |
| 16B0628-04 [SD-04] | B142210 | 30.0 | 1.00 | 02/16/16 |
| 16B0628-05 [SD-05] | B142210 | 30.0 | 1.00 | 02/16/16 |
| 16B0628-06 [SD-06] | B142210 | 30.0 | 1.00 | 02/16/16 |
| 16B0628-07 [SD-07] | B142210 | 30.0 | 1.00 | 02/16/16 |
| 16B0628-08 [SD-08] | B142210 | 30.0 | 1.00 | 02/16/16 |

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

| Lab Number [Field ID] | Batch | Initial [g] | Final [mL] | Date |
|-----------------------|---------|-------------|------------|----------|
| 16B0628-01 [SD-01] | B142233 | 8.60 | 10.0 | 02/16/16 |
| 16B0628-02 [SD-02] | B142233 | 9.56 | 10.0 | 02/16/16 |
| 16B0628-03 [SD-03] | B142233 | 4.89 | 10.0 | 02/16/16 |
| 16B0628-05 [SD-05] | B142233 | 5.35 | 10.0 | 02/16/16 |
| 16B0628-06 [SD-06] | B142233 | 6.35 | 10.0 | 02/16/16 |
| 16B0628-07 [SD-07] | B142233 | 5.76 | 10.0 | 02/16/16 |
| 16B0628-08 [SD-08] | B142233 | 5.63 | 10.0 | 02/16/16 |

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

| Lab Number [Field ID] | Batch | Initial [g] | Final [mL] | Date |
|-----------------------|---------|-------------|------------|----------|
| 16B0628-04 [SD-04] | B142332 | 7.99 | 10.0 | 02/16/16 |

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

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

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

Batch B142233 - SW-846 5035

Blank (B142233-BLK1)

Prepared & Analyzed: 02/16/16

| | | | | | | | | | | |
|------------------------------------|----|--------|-----------|--|--|--|--|--|--|------|
| Acetone | ND | 0.10 | mg/Kg wet | | | | | | | |
| Acrylonitrile | ND | 0.0060 | 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 | | | | | | | |
| tert-Butyl Alcohol (TBA) | ND | 0.040 | mg/Kg wet | | | | | | | |
| n-Butylbenzene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| sec-Butylbenzene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| tert-Butylbenzene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| tert-Butyl Ethyl Ether (TBEE) | ND | 0.0010 | mg/Kg wet | | | | | | | |
| Carbon Disulfide | ND | 0.0060 | mg/Kg wet | | | | | | | |
| Carbon Tetrachloride | ND | 0.0020 | mg/Kg wet | | | | | | | |
| Chlorobenzene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| Chlorodibromomethane | ND | 0.0010 | mg/Kg wet | | | | | | | |
| Chloroethane | ND | 0.020 | mg/Kg wet | | | | | | | |
| Chloroform | ND | 0.0040 | mg/Kg wet | | | | | | | |
| Chloromethane | ND | 0.010 | mg/Kg wet | | | | | | | L-04 |
| 2-Chlorotoluene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| 4-Chlorotoluene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 0.0020 | mg/Kg wet | | | | | | | |
| 1,2-Dibromoethane (EDB) | ND | 0.0010 | mg/Kg wet | | | | | | | |
| Dibromomethane | ND | 0.0020 | mg/Kg wet | | | | | | | |
| 1,2-Dichlorobenzene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| 1,3-Dichlorobenzene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| 1,4-Dichlorobenzene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| trans-1,4-Dichloro-2-butene | ND | 0.0040 | mg/Kg wet | | | | | | | |
| Dichlorodifluoromethane (Freon 12) | ND | 0.020 | mg/Kg wet | | | | | | | |
| 1,1-Dichloroethane | ND | 0.0020 | mg/Kg wet | | | | | | | |
| 1,2-Dichloroethane | ND | 0.0020 | mg/Kg wet | | | | | | | |
| 1,1-Dichloroethylene | ND | 0.0040 | mg/Kg wet | | | | | | | |
| cis-1,2-Dichloroethylene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| trans-1,2-Dichloroethylene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| 1,2-Dichloropropane | ND | 0.0020 | mg/Kg wet | | | | | | | |
| 1,3-Dichloropropane | ND | 0.0010 | mg/Kg wet | | | | | | | |
| 2,2-Dichloropropane | ND | 0.0020 | mg/Kg wet | | | | | | | |
| 1,1-Dichloropropene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| cis-1,3-Dichloropropene | ND | 0.0010 | mg/Kg wet | | | | | | | |
| trans-1,3-Dichloropropene | ND | 0.0010 | mg/Kg wet | | | | | | | |
| Diethyl Ether | ND | 0.020 | mg/Kg wet | | | | | | | |
| Diisopropyl Ether (DIPE) | ND | 0.0010 | mg/Kg wet | | | | | | | |
| 1,4-Dioxane | ND | 0.10 | mg/Kg wet | | | | | | | |
| 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 | | | | | | | |

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

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

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

Batch B142233 - SW-846 5035

Blank (B142233-BLK1)

Prepared & Analyzed: 02/16/16

| | | | | | | | | | | |
|---------------------------------------------------|----|--------|-----------|--|--|--|--|--|--|--|
| Methylene Chloride | ND | 0.020 | mg/Kg wet | | | | | | | |
| 4-Methyl-2-pentanone (MIBK) | ND | 0.020 | mg/Kg wet | | | | | | | |
| Naphthalene | ND | 0.0040 | mg/Kg wet | | | | | | | |
| n-Propylbenzene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| Styrene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 0.0020 | mg/Kg wet | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 0.0010 | mg/Kg wet | | | | | | | |
| Tetrachloroethylene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| Tetrahydrofuran | ND | 0.010 | mg/Kg wet | | | | | | | |
| Toluene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| 1,3,5-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 | | | | | | | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | ND | 0.010 | 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 | 0.0441 | | mg/Kg wet | 0.0500 | | 88.3 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.0496 | | mg/Kg wet | 0.0500 | | 99.2 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.0478 | | mg/Kg wet | 0.0500 | | 95.5 | 70-130 | | | |

LCS (B142233-BS1)

Prepared & Analyzed: 02/16/16

| | | | | | | | | | | |
|-------------------------------|---------|--------|-----------|--------|--|-------------|----------|--|--|---|
| Acetone | 0.159 | 0.10 | mg/Kg wet | 0.200 | | 79.6 | 70-160 | | | † |
| Acrylonitrile | 0.0176 | 0.0060 | mg/Kg wet | 0.0200 | | 88.0 | 70-130 | | | |
| tert-Amyl Methyl Ether (TAME) | 0.0178 | 0.0010 | mg/Kg wet | 0.0200 | | 89.0 | 70-130 | | | |
| Benzene | 0.0195 | 0.0020 | mg/Kg wet | 0.0200 | | 97.7 | 70-130 | | | |
| Bromobenzene | 0.0201 | 0.0020 | mg/Kg wet | 0.0200 | | 101 | 70-130 | | | |
| Bromochloromethane | 0.0198 | 0.0020 | mg/Kg wet | 0.0200 | | 98.9 | 70-130 | | | |
| Bromodichloromethane | 0.0178 | 0.0020 | mg/Kg wet | 0.0200 | | 88.9 | 70-130 | | | |
| Bromoform | 0.0178 | 0.0020 | mg/Kg wet | 0.0200 | | 89.1 | 70-130 | | | |
| Bromomethane | 0.00996 | 0.010 | mg/Kg wet | 0.0200 | | 49.8 | 40-130 | | | † |
| 2-Butanone (MEK) | 0.166 | 0.040 | mg/Kg wet | 0.200 | | 82.8 | 70-160 | | | † |
| tert-Butyl Alcohol (TBA) | 0.158 | 0.040 | mg/Kg wet | 0.200 | | 79.0 | 40-130 | | | † |
| n-Butylbenzene | 0.0209 | 0.0020 | mg/Kg wet | 0.0200 | | 104 | 70-130 | | | |
| sec-Butylbenzene | 0.0208 | 0.0020 | mg/Kg wet | 0.0200 | | 104 | 70-130 | | | |
| tert-Butylbenzene | 0.0202 | 0.0020 | mg/Kg wet | 0.0200 | | 101 | 70-160 | | | † |
| tert-Butyl Ethyl Ether (TBEE) | 0.0187 | 0.0010 | mg/Kg wet | 0.0200 | | 93.4 | 70-130 | | | |
| Carbon Disulfide | 0.0164 | 0.0060 | mg/Kg wet | 0.0200 | | 82.1 | 70-130 | | | |
| Carbon Tetrachloride | 0.0185 | 0.0020 | mg/Kg wet | 0.0200 | | 92.6 | 70-130 | | | |
| Chlorobenzene | 0.0206 | 0.0020 | mg/Kg wet | 0.0200 | | 103 | 70-130 | | | |
| Chlorodibromomethane | 0.0179 | 0.0010 | mg/Kg wet | 0.0200 | | 89.3 | 70-130 | | | |
| Chloroethane | 0.0188 | 0.020 | mg/Kg wet | 0.0200 | | 94.2 | 70-130 | | | |
| Chloroform | 0.0178 | 0.0040 | mg/Kg wet | 0.0200 | | 88.9 | 70-130 | | | |
| Chloromethane | 0.0121 | 0.010 | mg/Kg wet | 0.0200 | | 60.5 | * 70-130 | | | |
| 2-Chlorotoluene | 0.0203 | 0.0020 | mg/Kg wet | 0.0200 | | 101 | 70-130 | | | |

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

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------------------------------------------------|--------|-----------------|-----------|-------------|---------------|------|-------------|-----|-----------|-------|
| Batch B142233 - SW-846 5035 | | | | | | | | | | |
| LCS (B142233-BS1) | | | | | | | | | | |
| Prepared & Analyzed: 02/16/16 | | | | | | | | | | |
| 4-Chlorotoluene | 0.0195 | 0.0020 | mg/Kg wet | 0.0200 | | 97.3 | 70-130 | | | |
| 1,2-Dibromo-3-chloropropane (DBCP) | 0.0148 | 0.0020 | mg/Kg wet | 0.0200 | | 74.2 | 70-130 | | | |
| 1,2-Dibromoethane (EDB) | 0.0187 | 0.0010 | mg/Kg wet | 0.0200 | | 93.3 | 70-130 | | | |
| Dibromomethane | 0.0192 | 0.0020 | mg/Kg wet | 0.0200 | | 96.2 | 70-130 | | | |
| 1,2-Dichlorobenzene | 0.0196 | 0.0020 | mg/Kg wet | 0.0200 | | 97.8 | 70-130 | | | |
| 1,3-Dichlorobenzene | 0.0194 | 0.0020 | mg/Kg wet | 0.0200 | | 96.8 | 70-130 | | | |
| 1,4-Dichlorobenzene | 0.0191 | 0.0020 | mg/Kg wet | 0.0200 | | 95.3 | 70-130 | | | |
| trans-1,4-Dichloro-2-butene | 0.0168 | 0.0040 | mg/Kg wet | 0.0200 | | 84.1 | 70-130 | | | |
| Dichlorodifluoromethane (Freon 12) | 0.0100 | 0.020 | mg/Kg wet | 0.0200 | | 50.2 | 40-160 | | | † |
| 1,1-Dichloroethane | 0.0187 | 0.0020 | mg/Kg wet | 0.0200 | | 93.7 | 70-130 | | | |
| 1,2-Dichloroethane | 0.0175 | 0.0020 | mg/Kg wet | 0.0200 | | 87.5 | 70-130 | | | |
| 1,1-Dichloroethylene | 0.0159 | 0.0040 | mg/Kg wet | 0.0200 | | 79.3 | 70-130 | | | |
| cis-1,2-Dichloroethylene | 0.0173 | 0.0020 | mg/Kg wet | 0.0200 | | 86.4 | 70-130 | | | |
| trans-1,2-Dichloroethylene | 0.0186 | 0.0020 | mg/Kg wet | 0.0200 | | 93.0 | 70-130 | | | |
| 1,2-Dichloropropane | 0.0194 | 0.0020 | mg/Kg wet | 0.0200 | | 97.2 | 70-130 | | | |
| 1,3-Dichloropropane | 0.0178 | 0.0010 | mg/Kg wet | 0.0200 | | 89.1 | 70-130 | | | |
| 2,2-Dichloropropane | 0.0173 | 0.0020 | mg/Kg wet | 0.0200 | | 86.7 | 70-130 | | | |
| 1,1-Dichloropropene | 0.0194 | 0.0020 | mg/Kg wet | 0.0200 | | 97.2 | 70-130 | | | |
| cis-1,3-Dichloropropene | 0.0170 | 0.0010 | mg/Kg wet | 0.0200 | | 84.9 | 70-130 | | | |
| trans-1,3-Dichloropropene | 0.0166 | 0.0010 | mg/Kg wet | 0.0200 | | 82.9 | 70-130 | | | |
| Diethyl Ether | 0.0181 | 0.020 | mg/Kg wet | 0.0200 | | 90.5 | 70-130 | | | |
| Diisopropyl Ether (DIPE) | 0.0176 | 0.0010 | mg/Kg wet | 0.0200 | | 88.0 | 70-130 | | | |
| 1,4-Dioxane | 0.191 | 0.10 | mg/Kg wet | 0.200 | | 95.4 | 40-160 | | | † |
| Ethylbenzene | 0.0208 | 0.0020 | mg/Kg wet | 0.0200 | | 104 | 70-130 | | | |
| Hexachlorobutadiene | 0.0196 | 0.0020 | mg/Kg wet | 0.0200 | | 98.1 | 70-160 | | | |
| 2-Hexanone (MBK) | 0.173 | 0.020 | mg/Kg wet | 0.200 | | 86.7 | 70-160 | | | † |
| Isopropylbenzene (Cumene) | 0.0212 | 0.0020 | mg/Kg wet | 0.0200 | | 106 | 70-130 | | | |
| p-Isopropyltoluene (p-Cymene) | 0.0207 | 0.0020 | mg/Kg wet | 0.0200 | | 104 | 70-130 | | | |
| Methyl tert-Butyl Ether (MTBE) | 0.0188 | 0.0040 | mg/Kg wet | 0.0200 | | 93.8 | 70-130 | | | |
| Methylene Chloride | 0.0158 | 0.020 | mg/Kg wet | 0.0200 | | 79.2 | 40-160 | | | † |
| 4-Methyl-2-pentanone (MIBK) | 0.168 | 0.020 | mg/Kg wet | 0.200 | | 84.0 | 70-160 | | | † |
| Naphthalene | 0.0165 | 0.0040 | mg/Kg wet | 0.0200 | | 82.5 | 40-130 | | | † |
| n-Propylbenzene | 0.0209 | 0.0020 | mg/Kg wet | 0.0200 | | 104 | 70-130 | | | |
| Styrene | 0.0213 | 0.0020 | mg/Kg wet | 0.0200 | | 107 | 70-130 | | | |
| 1,1,1,2-Tetrachloroethane | 0.0200 | 0.0020 | mg/Kg wet | 0.0200 | | 99.9 | 70-130 | | | |
| 1,1,2,2-Tetrachloroethane | 0.0200 | 0.0010 | mg/Kg wet | 0.0200 | | 100 | 70-130 | | | |
| Tetrachloroethylene | 0.0208 | 0.0020 | mg/Kg wet | 0.0200 | | 104 | 70-130 | | | |
| Tetrahydrofuran | 0.0169 | 0.010 | mg/Kg wet | 0.0200 | | 84.3 | 70-130 | | | |
| Toluene | 0.0187 | 0.0020 | mg/Kg wet | 0.0200 | | 93.4 | 70-130 | | | |
| 1,2,3-Trichlorobenzene | 0.0171 | 0.0020 | mg/Kg wet | 0.0200 | | 85.6 | 70-130 | | | |
| 1,2,4-Trichlorobenzene | 0.0173 | 0.0020 | mg/Kg wet | 0.0200 | | 86.7 | 70-130 | | | |
| 1,3,5-Trichlorobenzene | 0.0192 | 0.0020 | mg/Kg wet | 0.0200 | | 96.1 | 70-130 | | | |
| 1,1,1-Trichloroethane | 0.0178 | 0.0020 | mg/Kg wet | 0.0200 | | 88.8 | 70-130 | | | |
| 1,1,2-Trichloroethane | 0.0196 | 0.0020 | mg/Kg wet | 0.0200 | | 98.0 | 70-130 | | | |
| Trichloroethylene | 0.0196 | 0.0020 | mg/Kg wet | 0.0200 | | 97.8 | 70-130 | | | |
| Trichlorofluoromethane (Freon 11) | 0.0158 | 0.010 | mg/Kg wet | 0.0200 | | 78.8 | 70-130 | | | |
| 1,2,3-Trichloropropane | 0.0174 | 0.0020 | mg/Kg wet | 0.0200 | | 87.2 | 70-130 | | | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | 0.0178 | 0.010 | mg/Kg wet | 0.0200 | | 89.2 | 70-130 | | | |
| 1,2,4-Trimethylbenzene | 0.0205 | 0.0020 | mg/Kg wet | 0.0200 | | 103 | 70-130 | | | |
| 1,3,5-Trimethylbenzene | 0.0219 | 0.0020 | mg/Kg wet | 0.0200 | | 110 | 70-130 | | | |
| Vinyl Chloride | 0.0150 | 0.010 | mg/Kg wet | 0.0200 | | 75.1 | 40-130 | | | † |

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

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|------------------------------------|---------|-----------------|-----------|-------------|---------------|-------------|-------------|-------|-----------|-------|
| Batch B142233 - SW-846 5035 | | | | | | | | | | |
| LCS (B142233-BS1) | | | | | | | | | | |
| Prepared & Analyzed: 02/16/16 | | | | | | | | | | |
| m+p Xylene | 0.0405 | 0.0040 | mg/Kg wet | 0.0400 | | 101 | 70-130 | | | |
| o-Xylene | 0.0196 | 0.0020 | mg/Kg wet | 0.0200 | | 98.2 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0443 | | mg/Kg wet | 0.0500 | | 88.6 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.0488 | | mg/Kg wet | 0.0500 | | 97.6 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.0505 | | mg/Kg wet | 0.0500 | | 101 | 70-130 | | | |
| LCS Dup (B142233-BSD1) | | | | | | | | | | |
| Prepared & Analyzed: 02/16/16 | | | | | | | | | | |
| Acetone | 0.161 | 0.10 | mg/Kg wet | 0.200 | | 80.6 | 70-160 | 1.35 | 25 | † |
| Acrylonitrile | 0.0168 | 0.0060 | mg/Kg wet | 0.0200 | | 83.8 | 70-130 | 4.89 | 25 | |
| tert-Amyl Methyl Ether (TAME) | 0.0184 | 0.0010 | mg/Kg wet | 0.0200 | | 92.2 | 70-130 | 3.53 | 25 | |
| Benzene | 0.0196 | 0.0020 | mg/Kg wet | 0.0200 | | 97.9 | 70-130 | 0.204 | 25 | |
| Bromobenzene | 0.0205 | 0.0020 | mg/Kg wet | 0.0200 | | 103 | 70-130 | 1.97 | 25 | |
| Bromochloromethane | 0.0198 | 0.0020 | mg/Kg wet | 0.0200 | | 99.1 | 70-130 | 0.202 | 25 | |
| Bromodichloromethane | 0.0181 | 0.0020 | mg/Kg wet | 0.0200 | | 90.5 | 70-130 | 1.78 | 25 | |
| Bromoform | 0.0180 | 0.0020 | mg/Kg wet | 0.0200 | | 89.9 | 70-130 | 0.894 | 25 | |
| Bromomethane | 0.0113 | 0.010 | mg/Kg wet | 0.0200 | | 56.3 | 40-130 | 12.3 | 25 | † |
| 2-Butanone (MEK) | 0.168 | 0.040 | mg/Kg wet | 0.200 | | 84.2 | 70-160 | 1.66 | 25 | † |
| tert-Butyl Alcohol (TBA) | 0.158 | 0.040 | mg/Kg wet | 0.200 | | 78.8 | 40-130 | 0.355 | 25 | † |
| n-Butylbenzene | 0.0212 | 0.0020 | mg/Kg wet | 0.0200 | | 106 | 70-130 | 1.62 | 25 | |
| sec-Butylbenzene | 0.0213 | 0.0020 | mg/Kg wet | 0.0200 | | 106 | 70-130 | 2.47 | 25 | |
| tert-Butylbenzene | 0.0204 | 0.0020 | mg/Kg wet | 0.0200 | | 102 | 70-160 | 0.788 | 25 | † |
| tert-Butyl Ethyl Ether (TBEE) | 0.0191 | 0.0010 | mg/Kg wet | 0.0200 | | 95.3 | 70-130 | 2.01 | 25 | |
| Carbon Disulfide | 0.0164 | 0.0060 | mg/Kg wet | 0.0200 | | 82.2 | 70-130 | 0.122 | 25 | |
| Carbon Tetrachloride | 0.0181 | 0.0020 | mg/Kg wet | 0.0200 | | 90.5 | 70-130 | 2.29 | 25 | |
| Chlorobenzene | 0.0210 | 0.0020 | mg/Kg wet | 0.0200 | | 105 | 70-130 | 2.12 | 25 | |
| Chlorodibromomethane | 0.0183 | 0.0010 | mg/Kg wet | 0.0200 | | 91.5 | 70-130 | 2.43 | 25 | |
| Chloroethane | 0.0170 | 0.020 | mg/Kg wet | 0.0200 | | 85.2 | 70-130 | 10.0 | 25 | |
| Chloroform | 0.0180 | 0.0040 | mg/Kg wet | 0.0200 | | 90.1 | 70-130 | 1.34 | 25 | |
| Chloromethane | 0.0128 | 0.010 | mg/Kg wet | 0.0200 | | 63.9 | * 70-130 | 5.47 | 25 | L-04 |
| 2-Chlorotoluene | 0.0207 | 0.0020 | mg/Kg wet | 0.0200 | | 104 | 70-130 | 2.24 | 25 | |
| 4-Chlorotoluene | 0.0200 | 0.0020 | mg/Kg wet | 0.0200 | | 100 | 70-130 | 2.94 | 25 | |
| 1,2-Dibromo-3-chloropropane (DBCP) | 0.0150 | 0.0020 | mg/Kg wet | 0.0200 | | 75.0 | 70-130 | 1.07 | 25 | |
| 1,2-Dibromoethane (EDB) | 0.0194 | 0.0010 | mg/Kg wet | 0.0200 | | 97.2 | 70-130 | 4.09 | 25 | |
| Dibromomethane | 0.0196 | 0.0020 | mg/Kg wet | 0.0200 | | 97.8 | 70-130 | 1.65 | 25 | |
| 1,2-Dichlorobenzene | 0.0201 | 0.0020 | mg/Kg wet | 0.0200 | | 100 | 70-130 | 2.52 | 25 | |
| 1,3-Dichlorobenzene | 0.0196 | 0.0020 | mg/Kg wet | 0.0200 | | 97.8 | 70-130 | 1.03 | 25 | |
| 1,4-Dichlorobenzene | 0.0190 | 0.0020 | mg/Kg wet | 0.0200 | | 95.0 | 70-130 | 0.315 | 25 | |
| trans-1,4-Dichloro-2-butene | 0.0172 | 0.0040 | mg/Kg wet | 0.0200 | | 86.1 | 70-130 | 2.35 | 25 | |
| Dichlorodifluoromethane (Freon 12) | 0.00974 | 0.020 | mg/Kg wet | 0.0200 | | 48.7 | 40-160 | 3.03 | 25 | † |
| 1,1-Dichloroethane | 0.0188 | 0.0020 | mg/Kg wet | 0.0200 | | 93.9 | 70-130 | 0.213 | 25 | |
| 1,2-Dichloroethane | 0.0172 | 0.0020 | mg/Kg wet | 0.0200 | | 85.9 | 70-130 | 1.85 | 25 | |
| 1,1-Dichloroethylene | 0.0161 | 0.0040 | mg/Kg wet | 0.0200 | | 80.3 | 70-130 | 1.25 | 25 | |
| cis-1,2-Dichloroethylene | 0.0174 | 0.0020 | mg/Kg wet | 0.0200 | | 86.9 | 70-130 | 0.577 | 25 | |
| trans-1,2-Dichloroethylene | 0.0183 | 0.0020 | mg/Kg wet | 0.0200 | | 91.4 | 70-130 | 1.74 | 25 | |
| 1,2-Dichloropropane | 0.0197 | 0.0020 | mg/Kg wet | 0.0200 | | 98.3 | 70-130 | 1.13 | 25 | |
| 1,3-Dichloropropane | 0.0184 | 0.0010 | mg/Kg wet | 0.0200 | | 91.9 | 70-130 | 3.09 | 25 | |
| 2,2-Dichloropropane | 0.0176 | 0.0020 | mg/Kg wet | 0.0200 | | 88.1 | 70-130 | 1.60 | 25 | |
| 1,1-Dichloropropene | 0.0194 | 0.0020 | mg/Kg wet | 0.0200 | | 97.1 | 70-130 | 0.103 | 25 | |
| cis-1,3-Dichloropropene | 0.0170 | 0.0010 | mg/Kg wet | 0.0200 | | 84.8 | 70-130 | 0.118 | 25 | |
| trans-1,3-Dichloropropene | 0.0170 | 0.0010 | mg/Kg wet | 0.0200 | | 84.8 | 70-130 | 2.27 | 25 | |
| Diethyl Ether | 0.0178 | 0.020 | mg/Kg wet | 0.0200 | | 88.8 | 70-130 | 1.90 | 25 | |
| Diisopropyl Ether (DIPE) | 0.0177 | 0.0010 | mg/Kg wet | 0.0200 | | 88.4 | 70-130 | 0.454 | 25 | |

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

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

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

Batch B142233 - SW-846 5035

LCS Dup (B142233-BSD1)

Prepared & Analyzed: 02/16/16

| | | | | | | | | | | |
|---------------------------------------------------|--------|--------|-----------|--------|--|------|--------|-------|----|-----|
| 1,4-Dioxane | 0.183 | 0.10 | mg/Kg wet | 0.200 | | 91.7 | 40-160 | 3.99 | 50 | † ‡ |
| Ethylbenzene | 0.0212 | 0.0020 | mg/Kg wet | 0.0200 | | 106 | 70-130 | 1.90 | 25 | |
| Hexachlorobutadiene | 0.0201 | 0.0020 | mg/Kg wet | 0.0200 | | 100 | 70-160 | 2.22 | 25 | |
| 2-Hexanone (MBK) | 0.177 | 0.020 | mg/Kg wet | 0.200 | | 88.6 | 70-160 | 2.14 | 25 | † |
| Isopropylbenzene (Cumene) | 0.0219 | 0.0020 | mg/Kg wet | 0.0200 | | 109 | 70-130 | 3.07 | 25 | |
| p-Isopropyltoluene (p-Cymene) | 0.0213 | 0.0020 | mg/Kg wet | 0.0200 | | 106 | 70-130 | 2.66 | 25 | |
| Methyl tert-Butyl Ether (MTBE) | 0.0184 | 0.0040 | mg/Kg wet | 0.0200 | | 91.9 | 70-130 | 2.05 | 25 | |
| Methylene Chloride | 0.0159 | 0.020 | mg/Kg wet | 0.0200 | | 79.7 | 40-160 | 0.629 | 25 | † |
| 4-Methyl-2-pentanone (MIBK) | 0.172 | 0.020 | mg/Kg wet | 0.200 | | 86.2 | 70-160 | 2.57 | 25 | † |
| Naphthalene | 0.0167 | 0.0040 | mg/Kg wet | 0.0200 | | 83.3 | 40-130 | 0.965 | 25 | † |
| n-Propylbenzene | 0.0215 | 0.0020 | mg/Kg wet | 0.0200 | | 108 | 70-130 | 3.02 | 25 | |
| Styrene | 0.0219 | 0.0020 | mg/Kg wet | 0.0200 | | 110 | 70-130 | 2.77 | 25 | |
| 1,1,1,2-Tetrachloroethane | 0.0204 | 0.0020 | mg/Kg wet | 0.0200 | | 102 | 70-130 | 1.98 | 25 | |
| 1,1,2,2-Tetrachloroethane | 0.0207 | 0.0010 | mg/Kg wet | 0.0200 | | 104 | 70-130 | 3.54 | 25 | |
| Tetrachloroethylene | 0.0213 | 0.0020 | mg/Kg wet | 0.0200 | | 107 | 70-130 | 2.47 | 25 | |
| Tetrahydrofuran | 0.0174 | 0.010 | mg/Kg wet | 0.0200 | | 87.2 | 70-130 | 3.38 | 25 | |
| Toluene | 0.0191 | 0.0020 | mg/Kg wet | 0.0200 | | 95.7 | 70-130 | 2.43 | 25 | |
| 1,2,3-Trichlorobenzene | 0.0175 | 0.0020 | mg/Kg wet | 0.0200 | | 87.3 | 70-130 | 1.97 | 25 | |
| 1,2,4-Trichlorobenzene | 0.0175 | 0.0020 | mg/Kg wet | 0.0200 | | 87.4 | 70-130 | 0.804 | 25 | |
| 1,3,5-Trichlorobenzene | 0.0196 | 0.0020 | mg/Kg wet | 0.0200 | | 98.1 | 70-130 | 2.06 | 25 | |
| 1,1,1-Trichloroethane | 0.0180 | 0.0020 | mg/Kg wet | 0.0200 | | 89.9 | 70-130 | 1.23 | 25 | |
| 1,1,2-Trichloroethane | 0.0202 | 0.0020 | mg/Kg wet | 0.0200 | | 101 | 70-130 | 2.82 | 25 | |
| Trichloroethylene | 0.0193 | 0.0020 | mg/Kg wet | 0.0200 | | 96.3 | 70-130 | 1.55 | 25 | |
| Trichlorofluoromethane (Freon 11) | 0.0160 | 0.010 | mg/Kg wet | 0.0200 | | 80.2 | 70-130 | 1.76 | 25 | |
| 1,2,3-Trichloropropane | 0.0186 | 0.0020 | mg/Kg wet | 0.0200 | | 93.1 | 70-130 | 6.54 | 25 | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | 0.0180 | 0.010 | mg/Kg wet | 0.0200 | | 90.1 | 70-130 | 1.00 | 25 | |
| 1,2,4-Trimethylbenzene | 0.0208 | 0.0020 | mg/Kg wet | 0.0200 | | 104 | 70-130 | 1.16 | 25 | |
| 1,3,5-Trimethylbenzene | 0.0220 | 0.0020 | mg/Kg wet | 0.0200 | | 110 | 70-130 | 0.365 | 25 | |
| Vinyl Chloride | 0.0151 | 0.010 | mg/Kg wet | 0.0200 | | 75.3 | 40-130 | 0.266 | 25 | † |
| m+p Xylene | 0.0414 | 0.0040 | mg/Kg wet | 0.0400 | | 103 | 70-130 | 2.15 | 25 | |
| o-Xylene | 0.0201 | 0.0020 | mg/Kg wet | 0.0200 | | 100 | 70-130 | 2.12 | 25 | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0437 | | mg/Kg wet | 0.0500 | | 87.3 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.0492 | | mg/Kg wet | 0.0500 | | 98.4 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.0506 | | mg/Kg wet | 0.0500 | | 101 | 70-130 | | | |

Batch B142332 - SW-846 5035

Blank (B142332-BLK1)

Prepared & Analyzed: 02/17/16

| | | | | | | | | | | |
|-------------------------------|----|--------|-----------|--|--|--|--|--|--|------|
| Acetone | ND | 0.10 | mg/Kg wet | | | | | | | R-05 |
| Acrylonitrile | ND | 0.0060 | 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 | | | | | | | |
| tert-Butyl Alcohol (TBA) | 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 | | | | | | | |

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 B142332 - SW-846 5035

Blank (B142332-BLK1)

Prepared & Analyzed: 02/17/16

| | | | | | | | | | | |
|------------------------------------|----|--------|-----------|--|--|--|--|--|--|------|
| tert-Butyl Ethyl Ether (TBEE) | ND | 0.0010 | mg/Kg wet | | | | | | | |
| Carbon Disulfide | ND | 0.0060 | mg/Kg wet | | | | | | | |
| Carbon Tetrachloride | ND | 0.0020 | mg/Kg wet | | | | | | | |
| Chlorobenzene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| Chlorodibromomethane | ND | 0.0010 | mg/Kg wet | | | | | | | |
| Chloroethane | ND | 0.020 | mg/Kg wet | | | | | | | |
| Chloroform | ND | 0.0040 | mg/Kg wet | | | | | | | |
| Chloromethane | ND | 0.010 | mg/Kg wet | | | | | | | L-04 |
| 2-Chlorotoluene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| 4-Chlorotoluene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 0.0020 | mg/Kg wet | | | | | | | |
| 1,2-Dibromoethane (EDB) | ND | 0.0010 | mg/Kg wet | | | | | | | |
| Dibromomethane | ND | 0.0020 | mg/Kg wet | | | | | | | |
| 1,2-Dichlorobenzene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| 1,3-Dichlorobenzene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| 1,4-Dichlorobenzene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| trans-1,4-Dichloro-2-butene | ND | 0.0040 | mg/Kg wet | | | | | | | |
| Dichlorodifluoromethane (Freon 12) | ND | 0.020 | 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 | 0.020 | mg/Kg wet | | | | | | | |
| Diisopropyl Ether (DIPE) | ND | 0.0010 | mg/Kg wet | | | | | | | |
| 1,4-Dioxane | ND | 0.10 | mg/Kg wet | | | | | | | |
| Ethylbenzene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| Hexachlorobutadiene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| 2-Hexanone (MBK) | ND | 0.020 | mg/Kg wet | | | | | | | |
| Isopropylbenzene (Cumene) | ND | 0.0020 | mg/Kg wet | | | | | | | |
| p-Isopropyltoluene (p-Cymene) | ND | 0.0020 | mg/Kg wet | | | | | | | |
| Methyl tert-Butyl Ether (MTBE) | ND | 0.0040 | mg/Kg wet | | | | | | | |
| Methylene Chloride | ND | 0.020 | mg/Kg wet | | | | | | | |
| 4-Methyl-2-pentanone (MIBK) | ND | 0.020 | mg/Kg wet | | | | | | | |
| Naphthalene | ND | 0.0040 | mg/Kg wet | | | | | | | |
| n-Propylbenzene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| Styrene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 0.0020 | mg/Kg wet | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 0.0010 | mg/Kg wet | | | | | | | |
| Tetrachloroethylene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| Tetrahydrofuran | ND | 0.010 | mg/Kg wet | | | | | | | |
| Toluene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| 1,3,5-Trichlorobenzene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| 1,1,1-Trichloroethane | ND | 0.0020 | mg/Kg wet | | | | | | | |

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

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------------------------------------------------|--------|-----------------|-----------|-------------|---------------|-------------|-------------|-----|-----------|--------|
| Batch B142332 - SW-846 5035 | | | | | | | | | | |
| Blank (B142332-BLK1) | | | | | | | | | | |
| Prepared & Analyzed: 02/17/16 | | | | | | | | | | |
| 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 | | | | | | | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | ND | 0.010 | 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 | 0.0422 | | mg/Kg wet | 0.0500 | | 84.4 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.0484 | | mg/Kg wet | 0.0500 | | 96.9 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.0480 | | mg/Kg wet | 0.0500 | | 96.0 | 70-130 | | | |
| LCS (B142332-BS1) | | | | | | | | | | |
| Prepared & Analyzed: 02/17/16 | | | | | | | | | | |
| Acetone | 0.159 | 0.10 | mg/Kg wet | 0.200 | | 79.3 | 70-160 | | | R-05 † |
| Acrylonitrile | 0.0168 | 0.0060 | mg/Kg wet | 0.0200 | | 84.2 | 70-130 | | | |
| tert-Amyl Methyl Ether (TAME) | 0.0185 | 0.0010 | mg/Kg wet | 0.0200 | | 92.3 | 70-130 | | | |
| Benzene | 0.0195 | 0.0020 | mg/Kg wet | 0.0200 | | 97.6 | 70-130 | | | |
| Bromobenzene | 0.0217 | 0.0020 | mg/Kg wet | 0.0200 | | 108 | 70-130 | | | |
| Bromochloromethane | 0.0208 | 0.0020 | mg/Kg wet | 0.0200 | | 104 | 70-130 | | | |
| Bromodichloromethane | 0.0190 | 0.0020 | mg/Kg wet | 0.0200 | | 95.0 | 70-130 | | | |
| Bromoform | 0.0187 | 0.0020 | mg/Kg wet | 0.0200 | | 93.5 | 70-130 | | | |
| Bromomethane | 0.0121 | 0.010 | mg/Kg wet | 0.0200 | | 60.7 | 40-130 | | | † |
| 2-Butanone (MEK) | 0.168 | 0.040 | mg/Kg wet | 0.200 | | 84.2 | 70-160 | | | † |
| tert-Butyl Alcohol (TBA) | 0.128 | 0.040 | mg/Kg wet | 0.200 | | 63.8 | 40-130 | | | † |
| n-Butylbenzene | 0.0220 | 0.0020 | mg/Kg wet | 0.0200 | | 110 | 70-130 | | | |
| sec-Butylbenzene | 0.0224 | 0.0020 | mg/Kg wet | 0.0200 | | 112 | 70-130 | | | |
| tert-Butylbenzene | 0.0218 | 0.0020 | mg/Kg wet | 0.0200 | | 109 | 70-160 | | | † |
| tert-Butyl Ethyl Ether (TBEE) | 0.0188 | 0.0010 | mg/Kg wet | 0.0200 | | 93.8 | 70-130 | | | |
| Carbon Disulfide | 0.0158 | 0.0060 | mg/Kg wet | 0.0200 | | 78.9 | 70-130 | | | |
| Carbon Tetrachloride | 0.0180 | 0.0020 | mg/Kg wet | 0.0200 | | 89.8 | 70-130 | | | |
| Chlorobenzene | 0.0217 | 0.0020 | mg/Kg wet | 0.0200 | | 108 | 70-130 | | | |
| Chlorodibromomethane | 0.0189 | 0.0010 | mg/Kg wet | 0.0200 | | 94.7 | 70-130 | | | |
| Chloroethane | 0.0186 | 0.020 | mg/Kg wet | 0.0200 | | 92.8 | 70-130 | | | |
| Chloroform | 0.0180 | 0.0040 | mg/Kg wet | 0.0200 | | 90.2 | 70-130 | | | |
| Chloromethane | 0.0129 | 0.010 | mg/Kg wet | 0.0200 | | 64.3 | * 70-130 | | | L-04 |
| 2-Chlorotoluene | 0.0215 | 0.0020 | mg/Kg wet | 0.0200 | | 107 | 70-130 | | | |
| 4-Chlorotoluene | 0.0207 | 0.0020 | mg/Kg wet | 0.0200 | | 103 | 70-130 | | | |
| 1,2-Dibromo-3-chloropropane (DBCP) | 0.0152 | 0.0020 | mg/Kg wet | 0.0200 | | 75.9 | 70-130 | | | |
| 1,2-Dibromoethane (EDB) | 0.0198 | 0.0010 | mg/Kg wet | 0.0200 | | 99.2 | 70-130 | | | |
| Dibromomethane | 0.0206 | 0.0020 | mg/Kg wet | 0.0200 | | 103 | 70-130 | | | |
| 1,2-Dichlorobenzene | 0.0209 | 0.0020 | mg/Kg wet | 0.0200 | | 104 | 70-130 | | | |
| 1,3-Dichlorobenzene | 0.0209 | 0.0020 | mg/Kg wet | 0.0200 | | 104 | 70-130 | | | |
| 1,4-Dichlorobenzene | 0.0201 | 0.0020 | mg/Kg wet | 0.0200 | | 101 | 70-130 | | | |
| trans-1,4-Dichloro-2-butene | 0.0173 | 0.0040 | mg/Kg wet | 0.0200 | | 86.5 | 70-130 | | | |
| Dichlorodifluoromethane (Freon 12) | 0.0125 | 0.020 | mg/Kg wet | 0.0200 | | 62.7 | 40-160 | | | V-05 † |
| 1,1-Dichloroethane | 0.0182 | 0.0020 | mg/Kg wet | 0.0200 | | 91.2 | 70-130 | | | |
| 1,2-Dichloroethane | 0.0177 | 0.0020 | mg/Kg wet | 0.0200 | | 88.4 | 70-130 | | | |
| 1,1-Dichloroethylene | 0.0155 | 0.0040 | mg/Kg wet | 0.0200 | | 77.3 | 70-130 | | | |
| cis-1,2-Dichloroethylene | 0.0175 | 0.0020 | mg/Kg wet | 0.0200 | | 87.3 | 70-130 | | | |
| trans-1,2-Dichloroethylene | 0.0176 | 0.0020 | mg/Kg wet | 0.0200 | | 88.1 | 70-130 | | | |

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

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------------------------------------------------|--------|-----------------|-----------|-------------|---------------|------|-------------|-----|-----------|-------|
| Batch B142332 - SW-846 5035 | | | | | | | | | | |
| LCS (B142332-BS1) | | | | | | | | | | |
| Prepared & Analyzed: 02/17/16 | | | | | | | | | | |
| 1,2-Dichloropropane | 0.0199 | 0.0020 | mg/Kg wet | 0.0200 | | 99.5 | 70-130 | | | |
| 1,3-Dichloropropane | 0.0191 | 0.0010 | mg/Kg wet | 0.0200 | | 95.6 | 70-130 | | | |
| 2,2-Dichloropropane | 0.0166 | 0.0020 | mg/Kg wet | 0.0200 | | 82.8 | 70-130 | | | |
| 1,1-Dichloropropene | 0.0191 | 0.0020 | mg/Kg wet | 0.0200 | | 95.6 | 70-130 | | | |
| cis-1,3-Dichloropropene | 0.0177 | 0.0010 | mg/Kg wet | 0.0200 | | 88.5 | 70-130 | | | |
| trans-1,3-Dichloropropene | 0.0174 | 0.0010 | mg/Kg wet | 0.0200 | | 87.1 | 70-130 | | | |
| Diethyl Ether | 0.0174 | 0.020 | mg/Kg wet | 0.0200 | | 86.9 | 70-130 | | | |
| Diisopropyl Ether (DIPE) | 0.0177 | 0.0010 | mg/Kg wet | 0.0200 | | 88.3 | 70-130 | | | |
| 1,4-Dioxane | 0.169 | 0.10 | mg/Kg wet | 0.200 | | 84.6 | 40-160 | | | † |
| Ethylbenzene | 0.0223 | 0.0020 | mg/Kg wet | 0.0200 | | 111 | 70-130 | | | |
| Hexachlorobutadiene | 0.0209 | 0.0020 | mg/Kg wet | 0.0200 | | 105 | 70-160 | | | |
| 2-Hexanone (MBK) | 0.180 | 0.020 | mg/Kg wet | 0.200 | | 90.2 | 70-160 | | | † |
| Isopropylbenzene (Cumene) | 0.0227 | 0.0020 | mg/Kg wet | 0.0200 | | 114 | 70-130 | | | |
| p-Isopropyltoluene (p-Cymene) | 0.0223 | 0.0020 | mg/Kg wet | 0.0200 | | 112 | 70-130 | | | |
| Methyl tert-Butyl Ether (MTBE) | 0.0181 | 0.0040 | mg/Kg wet | 0.0200 | | 90.7 | 70-130 | | | |
| Methylene Chloride | 0.0156 | 0.020 | mg/Kg wet | 0.0200 | | 78.0 | 40-160 | | | † |
| 4-Methyl-2-pentanone (MIBK) | 0.177 | 0.020 | mg/Kg wet | 0.200 | | 88.3 | 70-160 | | | † |
| Naphthalene | 0.0158 | 0.0040 | mg/Kg wet | 0.0200 | | 79.2 | 40-130 | | | † |
| n-Propylbenzene | 0.0224 | 0.0020 | mg/Kg wet | 0.0200 | | 112 | 70-130 | | | |
| Styrene | 0.0226 | 0.0020 | mg/Kg wet | 0.0200 | | 113 | 70-130 | | | |
| 1,1,1,2-Tetrachloroethane | 0.0216 | 0.0020 | mg/Kg wet | 0.0200 | | 108 | 70-130 | | | |
| 1,1,2,2-Tetrachloroethane | 0.0215 | 0.0010 | mg/Kg wet | 0.0200 | | 108 | 70-130 | | | |
| Tetrachloroethylene | 0.0225 | 0.0020 | mg/Kg wet | 0.0200 | | 112 | 70-130 | | | |
| Tetrahydrofuran | 0.0190 | 0.010 | mg/Kg wet | 0.0200 | | 95.2 | 70-130 | | | |
| Toluene | 0.0194 | 0.0020 | mg/Kg wet | 0.0200 | | 96.9 | 70-130 | | | |
| 1,2,3-Trichlorobenzene | 0.0167 | 0.0020 | mg/Kg wet | 0.0200 | | 83.5 | 70-130 | | | |
| 1,2,4-Trichlorobenzene | 0.0170 | 0.0020 | mg/Kg wet | 0.0200 | | 84.8 | 70-130 | | | |
| 1,3,5-Trichlorobenzene | 0.0199 | 0.0020 | mg/Kg wet | 0.0200 | | 99.6 | 70-130 | | | |
| 1,1,1-Trichloroethane | 0.0179 | 0.0020 | mg/Kg wet | 0.0200 | | 89.3 | 70-130 | | | |
| 1,1,2-Trichloroethane | 0.0208 | 0.0020 | mg/Kg wet | 0.0200 | | 104 | 70-130 | | | |
| Trichloroethylene | 0.0195 | 0.0020 | mg/Kg wet | 0.0200 | | 97.6 | 70-130 | | | |
| Trichlorofluoromethane (Freon 11) | 0.0158 | 0.010 | mg/Kg wet | 0.0200 | | 79.2 | 70-130 | | | |
| 1,2,3-Trichloropropane | 0.0200 | 0.0020 | mg/Kg wet | 0.0200 | | 100 | 70-130 | | | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | 0.0173 | 0.010 | mg/Kg wet | 0.0200 | | 86.5 | 70-130 | | | |
| 1,2,4-Trimethylbenzene | 0.0219 | 0.0020 | mg/Kg wet | 0.0200 | | 110 | 70-130 | | | |
| 1,3,5-Trimethylbenzene | 0.0234 | 0.0020 | mg/Kg wet | 0.0200 | | 117 | 70-130 | | | |
| Vinyl Chloride | 0.0156 | 0.010 | mg/Kg wet | 0.0200 | | 77.9 | 40-130 | | | † |
| m+p Xylene | 0.0431 | 0.0040 | mg/Kg wet | 0.0400 | | 108 | 70-130 | | | |
| o-Xylene | 0.0211 | 0.0020 | mg/Kg wet | 0.0200 | | 106 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0438 | | mg/Kg wet | 0.0500 | | 87.7 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.0496 | | mg/Kg wet | 0.0500 | | 99.2 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.0511 | | mg/Kg wet | 0.0500 | | 102 | 70-130 | | | |

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|------------------------------------|--------|-----------------|-----------|-------------|---------------|--------|-------------|--------|-----------|--------|
| Batch B142332 - SW-846 5035 | | | | | | | | | | |
| LCS Dup (B142332-BSD1) | | | | | | | | | | |
| Prepared & Analyzed: 02/17/16 | | | | | | | | | | |
| Acetone | 0.212 | 0.10 | mg/Kg wet | 0.200 | | 106 | 70-160 | 28.8 * | 25 | R-05 † |
| Acrylonitrile | 0.0202 | 0.0060 | mg/Kg wet | 0.0200 | | 101 | 70-130 | 18.0 | 25 | |
| tert-Amyl Methyl Ether (TAME) | 0.0201 | 0.0010 | mg/Kg wet | 0.0200 | | 100 | 70-130 | 8.51 | 25 | |
| Benzene | 0.0219 | 0.0020 | mg/Kg wet | 0.0200 | | 110 | 70-130 | 11.6 | 25 | |
| Bromobenzene | 0.0231 | 0.0020 | mg/Kg wet | 0.0200 | | 116 | 70-130 | 6.42 | 25 | |
| Bromochloromethane | 0.0221 | 0.0020 | mg/Kg wet | 0.0200 | | 110 | 70-130 | 5.88 | 25 | |
| Bromodichloromethane | 0.0207 | 0.0020 | mg/Kg wet | 0.0200 | | 104 | 70-130 | 8.56 | 25 | |
| Bromoform | 0.0207 | 0.0020 | mg/Kg wet | 0.0200 | | 103 | 70-130 | 10.1 | 25 | |
| Bromomethane | 0.0118 | 0.010 | mg/Kg wet | 0.0200 | | 58.9 | 40-130 | 3.01 | 25 | † |
| 2-Butanone (MEK) | 0.202 | 0.040 | mg/Kg wet | 0.200 | | 101 | 70-160 | 18.1 | 25 | † |
| tert-Butyl Alcohol (TBA) | 0.137 | 0.040 | mg/Kg wet | 0.200 | | 68.5 | 40-130 | 7.12 | 25 | † |
| n-Butylbenzene | 0.0243 | 0.0020 | mg/Kg wet | 0.0200 | | 122 | 70-130 | 9.94 | 25 | |
| sec-Butylbenzene | 0.0242 | 0.0020 | mg/Kg wet | 0.0200 | | 121 | 70-130 | 7.63 | 25 | |
| tert-Butylbenzene | 0.0231 | 0.0020 | mg/Kg wet | 0.0200 | | 116 | 70-160 | 5.61 | 25 | † |
| tert-Butyl Ethyl Ether (TBEE) | 0.0206 | 0.0010 | mg/Kg wet | 0.0200 | | 103 | 70-130 | 9.45 | 25 | |
| Carbon Disulfide | 0.0167 | 0.0060 | mg/Kg wet | 0.0200 | | 83.5 | 70-130 | 5.67 | 25 | |
| Carbon Tetrachloride | 0.0205 | 0.0020 | mg/Kg wet | 0.0200 | | 102 | 70-130 | 13.2 | 25 | |
| Chlorobenzene | 0.0241 | 0.0020 | mg/Kg wet | 0.0200 | | 120 | 70-130 | 10.5 | 25 | |
| Chlorodibromomethane | 0.0209 | 0.0010 | mg/Kg wet | 0.0200 | | 105 | 70-130 | 9.93 | 25 | |
| Chloroethane | 0.0184 | 0.020 | mg/Kg wet | 0.0200 | | 91.8 | 70-130 | 1.08 | 25 | |
| Chloroform | 0.0206 | 0.0040 | mg/Kg wet | 0.0200 | | 103 | 70-130 | 13.3 | 25 | |
| Chloromethane | 0.0130 | 0.010 | mg/Kg wet | 0.0200 | | 65.2 * | 70-130 | 1.39 | 25 | L-04 |
| 2-Chlorotoluene | 0.0236 | 0.0020 | mg/Kg wet | 0.0200 | | 118 | 70-130 | 9.49 | 25 | |
| 4-Chlorotoluene | 0.0230 | 0.0020 | mg/Kg wet | 0.0200 | | 115 | 70-130 | 10.8 | 25 | |
| 1,2-Dibromo-3-chloropropane (DBCP) | 0.0169 | 0.0020 | mg/Kg wet | 0.0200 | | 84.3 | 70-130 | 10.5 | 25 | |
| 1,2-Dibromoethane (EDB) | 0.0224 | 0.0010 | mg/Kg wet | 0.0200 | | 112 | 70-130 | 12.3 | 25 | |
| Dibromomethane | 0.0225 | 0.0020 | mg/Kg wet | 0.0200 | | 112 | 70-130 | 8.92 | 25 | |
| 1,2-Dichlorobenzene | 0.0223 | 0.0020 | mg/Kg wet | 0.0200 | | 112 | 70-130 | 6.67 | 25 | |
| 1,3-Dichlorobenzene | 0.0227 | 0.0020 | mg/Kg wet | 0.0200 | | 114 | 70-130 | 8.26 | 25 | |
| 1,4-Dichlorobenzene | 0.0215 | 0.0020 | mg/Kg wet | 0.0200 | | 108 | 70-130 | 6.72 | 25 | |
| trans-1,4-Dichloro-2-butene | 0.0190 | 0.0040 | mg/Kg wet | 0.0200 | | 94.9 | 70-130 | 9.26 | 25 | |
| Dichlorodifluoromethane (Freon 12) | 0.0118 | 0.020 | mg/Kg wet | 0.0200 | | 59.1 | 40-160 | 5.91 | 25 | V-05 † |
| 1,1-Dichloroethane | 0.0209 | 0.0020 | mg/Kg wet | 0.0200 | | 105 | 70-130 | 13.8 | 25 | |
| 1,2-Dichloroethane | 0.0195 | 0.0020 | mg/Kg wet | 0.0200 | | 97.7 | 70-130 | 9.99 | 25 | |
| 1,1-Dichloroethylene | 0.0166 | 0.0040 | mg/Kg wet | 0.0200 | | 82.9 | 70-130 | 6.99 | 25 | |
| cis-1,2-Dichloroethylene | 0.0198 | 0.0020 | mg/Kg wet | 0.0200 | | 99.2 | 70-130 | 12.8 | 25 | |
| trans-1,2-Dichloroethylene | 0.0198 | 0.0020 | mg/Kg wet | 0.0200 | | 98.8 | 70-130 | 11.4 | 25 | |
| 1,2-Dichloropropane | 0.0221 | 0.0020 | mg/Kg wet | 0.0200 | | 111 | 70-130 | 10.7 | 25 | |
| 1,3-Dichloropropane | 0.0205 | 0.0010 | mg/Kg wet | 0.0200 | | 102 | 70-130 | 6.87 | 25 | |
| 2,2-Dichloropropane | 0.0195 | 0.0020 | mg/Kg wet | 0.0200 | | 97.3 | 70-130 | 16.1 | 25 | |
| 1,1-Dichloropropene | 0.0215 | 0.0020 | mg/Kg wet | 0.0200 | | 108 | 70-130 | 11.8 | 25 | |
| cis-1,3-Dichloropropene | 0.0201 | 0.0010 | mg/Kg wet | 0.0200 | | 100 | 70-130 | 12.6 | 25 | |
| trans-1,3-Dichloropropene | 0.0191 | 0.0010 | mg/Kg wet | 0.0200 | | 95.4 | 70-130 | 9.10 | 25 | |
| Diethyl Ether | 0.0187 | 0.020 | mg/Kg wet | 0.0200 | | 93.6 | 70-130 | 7.42 | 25 | |
| Diisopropyl Ether (DIPE) | 0.0197 | 0.0010 | mg/Kg wet | 0.0200 | | 98.3 | 70-130 | 10.7 | 25 | |
| 1,4-Dioxane | 0.186 | 0.10 | mg/Kg wet | 0.200 | | 92.8 | 40-160 | 9.16 | 50 | † ‡ |
| Ethylbenzene | 0.0247 | 0.0020 | mg/Kg wet | 0.0200 | | 123 | 70-130 | 10.2 | 25 | |
| Hexachlorobutadiene | 0.0225 | 0.0020 | mg/Kg wet | 0.0200 | | 112 | 70-160 | 7.28 | 25 | |
| 2-Hexanone (MBK) | 0.205 | 0.020 | mg/Kg wet | 0.200 | | 103 | 70-160 | 12.8 | 25 | † |
| Isopropylbenzene (Cumene) | 0.0253 | 0.0020 | mg/Kg wet | 0.0200 | | 126 | 70-130 | 10.7 | 25 | |
| p-Isopropyltoluene (p-Cymene) | 0.0243 | 0.0020 | mg/Kg wet | 0.0200 | | 122 | 70-130 | 8.40 | 25 | |
| Methyl tert-Butyl Ether (MTBE) | 0.0203 | 0.0040 | mg/Kg wet | 0.0200 | | 101 | 70-130 | 11.1 | 25 | |

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

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------------------------------------------------|--------|-----------------|-----------|-------------------------------|---------------|------|-------------|------|-----------|-------|
| Batch B142332 - SW-846 5035 | | | | | | | | | | |
| LCS Dup (B142332-BSD1) | | | | | | | | | | |
| | | | | Prepared & Analyzed: 02/17/16 | | | | | | |
| Methylene Chloride | 0.0172 | 0.020 | mg/Kg wet | 0.0200 | | 86.0 | 40-160 | 9.76 | 25 | † |
| 4-Methyl-2-pentanone (MIBK) | 0.190 | 0.020 | mg/Kg wet | 0.200 | | 95.2 | 70-160 | 7.55 | 25 | † |
| Naphthalene | 0.0174 | 0.0040 | mg/Kg wet | 0.0200 | | 87.2 | 40-130 | 9.62 | 25 | † |
| n-Propylbenzene | 0.0250 | 0.0020 | mg/Kg wet | 0.0200 | | 125 | 70-130 | 11.1 | 25 | |
| Styrene | 0.0253 | 0.0020 | mg/Kg wet | 0.0200 | | 127 | 70-130 | 11.4 | 25 | |
| 1,1,1,2-Tetrachloroethane | 0.0236 | 0.0020 | mg/Kg wet | 0.0200 | | 118 | 70-130 | 9.20 | 25 | |
| 1,1,2,2-Tetrachloroethane | 0.0234 | 0.0010 | mg/Kg wet | 0.0200 | | 117 | 70-130 | 8.63 | 25 | |
| Tetrachloroethylene | 0.0249 | 0.0020 | mg/Kg wet | 0.0200 | | 124 | 70-130 | 9.97 | 25 | |
| Tetrahydrofuran | 0.0211 | 0.010 | mg/Kg wet | 0.0200 | | 106 | 70-130 | 10.3 | 25 | |
| Toluene | 0.0215 | 0.0020 | mg/Kg wet | 0.0200 | | 107 | 70-130 | 10.2 | 25 | |
| 1,2,3-Trichlorobenzene | 0.0188 | 0.0020 | mg/Kg wet | 0.0200 | | 93.8 | 70-130 | 11.6 | 25 | |
| 1,2,4-Trichlorobenzene | 0.0192 | 0.0020 | mg/Kg wet | 0.0200 | | 96.2 | 70-130 | 12.6 | 25 | |
| 1,3,5-Trichlorobenzene | 0.0227 | 0.0020 | mg/Kg wet | 0.0200 | | 114 | 70-130 | 13.2 | 25 | |
| 1,1,1-Trichloroethane | 0.0198 | 0.0020 | mg/Kg wet | 0.0200 | | 98.9 | 70-130 | 10.2 | 25 | |
| 1,1,2-Trichloroethane | 0.0224 | 0.0020 | mg/Kg wet | 0.0200 | | 112 | 70-130 | 7.32 | 25 | |
| Trichloroethylene | 0.0227 | 0.0020 | mg/Kg wet | 0.0200 | | 114 | 70-130 | 15.2 | 25 | |
| Trichlorofluoromethane (Freon 11) | 0.0163 | 0.010 | mg/Kg wet | 0.0200 | | 81.6 | 70-130 | 2.99 | 25 | |
| 1,2,3-Trichloropropane | 0.0211 | 0.0020 | mg/Kg wet | 0.0200 | | 106 | 70-130 | 5.25 | 25 | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | 0.0184 | 0.010 | mg/Kg wet | 0.0200 | | 92.1 | 70-130 | 6.27 | 25 | |
| 1,2,4-Trimethylbenzene | 0.0238 | 0.0020 | mg/Kg wet | 0.0200 | | 119 | 70-130 | 8.22 | 25 | |
| 1,3,5-Trimethylbenzene | 0.0255 | 0.0020 | mg/Kg wet | 0.0200 | | 127 | 70-130 | 8.60 | 25 | |
| Vinyl Chloride | 0.0153 | 0.010 | mg/Kg wet | 0.0200 | | 76.5 | 40-130 | 1.81 | 25 | † |
| m+p Xylene | 0.0479 | 0.0040 | mg/Kg wet | 0.0400 | | 120 | 70-130 | 10.5 | 25 | |
| o-Xylene | 0.0236 | 0.0020 | mg/Kg wet | 0.0200 | | 118 | 70-130 | 10.9 | 25 | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0430 | | mg/Kg wet | 0.0500 | | 86.1 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.0492 | | mg/Kg wet | 0.0500 | | 98.5 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.0506 | | mg/Kg wet | 0.0500 | | 101 | 70-130 | | | |

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

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 B142207 - SW-846 3546 | | | | | | | | | | |
| Blank (B142207-BLK1) | | | | | | | | | | |
| Prepared: 02/16/16 Analyzed: 02/17/16 | | | | | | | | | | |
| 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 | 0.193 | | mg/Kg wet | 0.200 | | 96.7 | 30-150 | | | |
| Surrogate: Decachlorobiphenyl [2C] | 0.180 | | mg/Kg wet | 0.200 | | 90.2 | 30-150 | | | |
| Surrogate: Tetrachloro-m-xylene | 0.179 | | mg/Kg wet | 0.200 | | 89.5 | 30-150 | | | |
| Surrogate: Tetrachloro-m-xylene [2C] | 0.185 | | mg/Kg wet | 0.200 | | 92.4 | 30-150 | | | |
| LCS (B142207-BS1) | | | | | | | | | | |
| Prepared: 02/16/16 Analyzed: 02/17/16 | | | | | | | | | | |
| Aroclor-1016 | 0.18 | 0.020 | mg/Kg wet | 0.200 | | 92.3 | 40-140 | | | |
| Aroclor-1016 [2C] | 0.20 | 0.020 | mg/Kg wet | 0.200 | | 101 | 40-140 | | | |
| Aroclor-1260 | 0.20 | 0.020 | mg/Kg wet | 0.200 | | 99.0 | 40-140 | | | |
| Aroclor-1260 [2C] | 0.18 | 0.020 | mg/Kg wet | 0.200 | | 90.0 | 40-140 | | | |
| Surrogate: Decachlorobiphenyl | 0.202 | | mg/Kg wet | 0.200 | | 101 | 30-150 | | | |
| Surrogate: Decachlorobiphenyl [2C] | 0.184 | | mg/Kg wet | 0.200 | | 91.9 | 30-150 | | | |
| Surrogate: Tetrachloro-m-xylene | 0.178 | | mg/Kg wet | 0.200 | | 88.8 | 30-150 | | | |
| Surrogate: Tetrachloro-m-xylene [2C] | 0.187 | | mg/Kg wet | 0.200 | | 93.6 | 30-150 | | | |
| LCS Dup (B142207-BSD1) | | | | | | | | | | |
| Prepared: 02/16/16 Analyzed: 02/17/16 | | | | | | | | | | |
| Aroclor-1016 | 0.19 | 0.020 | mg/Kg wet | 0.200 | | 93.3 | 40-140 | 1.13 | 30 | |
| Aroclor-1016 [2C] | 0.19 | 0.020 | mg/Kg wet | 0.200 | | 97.1 | 40-140 | 4.26 | 30 | |
| Aroclor-1260 | 0.18 | 0.020 | mg/Kg wet | 0.200 | | 90.1 | 40-140 | 9.39 | 30 | |
| Aroclor-1260 [2C] | 0.17 | 0.020 | mg/Kg wet | 0.200 | | 87.1 | 40-140 | 3.26 | 30 | |
| Surrogate: Decachlorobiphenyl | 0.187 | | mg/Kg wet | 0.200 | | 93.3 | 30-150 | | | |
| Surrogate: Decachlorobiphenyl [2C] | 0.174 | | mg/Kg wet | 0.200 | | 86.8 | 30-150 | | | |
| Surrogate: Tetrachloro-m-xylene | 0.180 | | mg/Kg wet | 0.200 | | 89.9 | 30-150 | | | |
| Surrogate: Tetrachloro-m-xylene [2C] | 0.173 | | mg/Kg wet | 0.200 | | 86.7 | 30-150 | | | |

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

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 B142207 - SW-846 3546

Matrix Spike (B142207-MS1)

Source: 16B0628-01

Prepared: 02/16/16 Analyzed: 02/17/16

| | | | | | | | | | | |
|--------------------------------------|-------|------|-----------|-------|------|------|--------|--|--|------|
| Aroclor-1016 | 0.32 | 0.13 | mg/Kg dry | 0.260 | ND | 124 | 40-140 | | | |
| Aroclor-1016 [2C] | 0.34 | 0.13 | mg/Kg dry | 0.260 | ND | 129 | 40-140 | | | |
| Aroclor-1260 | 0.48 | 0.13 | mg/Kg dry | 0.260 | 0.32 | 61.2 | 40-140 | | | R-06 |
| Aroclor-1260 [2C] | 0.47 | 0.13 | mg/Kg dry | 0.260 | 0.30 | 66.3 | 40-140 | | | R-06 |
| Surrogate: Decachlorobiphenyl | 0.195 | | mg/Kg dry | 0.260 | | 75.0 | 30-150 | | | |
| Surrogate: Decachlorobiphenyl [2C] | 0.237 | | mg/Kg dry | 0.260 | | 91.0 | 30-150 | | | |
| Surrogate: Tetrachloro-m-xylene | 0.189 | | mg/Kg dry | 0.260 | | 72.8 | 30-150 | | | |
| Surrogate: Tetrachloro-m-xylene [2C] | 0.200 | | mg/Kg dry | 0.260 | | 76.8 | 30-150 | | | |

Matrix Spike Dup (B142207-MSD1)

Source: 16B0628-01

Prepared: 02/16/16 Analyzed: 02/17/16

| | | | | | | | | | | |
|--------------------------------------|-------|------|-----------|-------|------|--------------|--------|---------------|----|-------|
| Aroclor-1016 | 0.31 | 0.13 | mg/Kg dry | 0.260 | ND | 118 | 40-140 | 4.39 | 30 | |
| Aroclor-1016 [2C] | 0.36 | 0.13 | mg/Kg dry | 0.260 | ND | 137 | 40-140 | 6.17 | 30 | |
| Aroclor-1260 | 0.72 | 0.13 | mg/Kg dry | 0.260 | 0.32 | 155 * | 40-140 | 86.6 * | 30 | MS-23 |
| Aroclor-1260 [2C] | 0.66 | 0.13 | mg/Kg dry | 0.260 | 0.30 | 137 | 40-140 | 69.6 * | 30 | R-06 |
| Surrogate: Decachlorobiphenyl | 0.203 | | mg/Kg dry | 0.260 | | 78.2 | 30-150 | | | |
| Surrogate: Decachlorobiphenyl [2C] | 0.239 | | mg/Kg dry | 0.260 | | 92.0 | 30-150 | | | |
| Surrogate: Tetrachloro-m-xylene | 0.198 | | mg/Kg dry | 0.260 | | 76.3 | 30-150 | | | |
| Surrogate: Tetrachloro-m-xylene [2C] | 0.209 | | mg/Kg dry | 0.260 | | 80.2 | 30-150 | | | |

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

QUALITY CONTROL

Petroleum Hydrocarbons Analyses - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|----------------------------------------|--------|-----------------|-----------|-------------|---------------|--------|-------------|--------|-----------|-------|
| Batch B142210 - SW-846 3546 | | | | | | | | | | |
| Blank (B142210-BLK1) | | | | | | | | | | |
| Prepared: 02/16/16 Analyzed: 02/17/16 | | | | | | | | | | |
| TPH (C9-C36) | ND | 8.3 | mg/Kg wet | | | | | | | |
| Surrogate: o-Terphenyl | 2.46 | | mg/Kg wet | 3.33 | | 73.8 | 40-140 | | | |
| LCS (B142210-BS1) | | | | | | | | | | |
| Prepared: 02/16/16 Analyzed: 02/17/16 | | | | | | | | | | |
| TPH (C9-C36) | 22.6 | 8.3 | mg/Kg wet | 33.3 | | 67.8 | 40-140 | | | |
| Surrogate: o-Terphenyl | 2.40 | | mg/Kg wet | 3.33 | | 72.0 | 40-140 | | | |
| LCS Dup (B142210-BSD1) | | | | | | | | | | |
| Prepared: 02/16/16 Analyzed: 02/17/16 | | | | | | | | | | |
| TPH (C9-C36) | 22.6 | 8.3 | mg/Kg wet | 33.3 | | 67.9 | 40-140 | 0.0478 | 30 | |
| Surrogate: o-Terphenyl | 2.32 | | mg/Kg wet | 3.33 | | 69.7 | 40-140 | | | |
| Matrix Spike (B142210-MS1) | | | | | | | | | | |
| Source: 16B0628-06 | | | | | | | | | | |
| Prepared: 02/16/16 Analyzed: 02/17/16 | | | | | | | | | | |
| TPH (C9-C36) | 239 | 51 | mg/Kg dry | 40.8 | 235 | 8.94 * | 40-140 | | | MS-22 |
| Surrogate: o-Terphenyl | 3.67 | | mg/Kg dry | 4.08 | | 90.0 | 40-140 | | | |
| Matrix Spike Dup (B142210-MSD1) | | | | | | | | | | |
| Source: 16B0628-06 | | | | | | | | | | |
| Prepared: 02/16/16 Analyzed: 02/17/16 | | | | | | | | | | |
| TPH (C9-C36) | 266 | 51 | mg/Kg dry | 40.8 | 235 | 76.0 | 40-140 | 10.8 | 30 | |
| Surrogate: o-Terphenyl | 3.75 | | mg/Kg dry | 4.08 | | 91.8 | 40-140 | | | |

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

QUALITY CONTROL

Metals Analyses (Total) - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------------------------------------------------------------------------------------------------|--------|-----------------|-----------|-------------|---------------|------|-------------|------|-----------|-------|
| Batch B142234 - SW-846 7471 | | | | | | | | | | |
| Blank (B142234-BLK1) Prepared: 02/16/16 Analyzed: 02/17/16 | | | | | | | | | | |
| Mercury | ND | 0.025 | mg/Kg wet | | | | | | | |
| LCS (B142234-BS1) Prepared: 02/16/16 Analyzed: 02/17/16 | | | | | | | | | | |
| Mercury | 8.95 | 0.81 | mg/Kg wet | 7.10 | | 126 | 73.7-126.3 | | | |
| LCS Dup (B142234-BSD1) Prepared: 02/16/16 Analyzed: 02/17/16 | | | | | | | | | | |
| Mercury | 8.39 | 0.80 | mg/Kg wet | 7.10 | | 118 | 73.7-126.3 | 6.47 | 30 | |
| Duplicate (B142234-DUP1) Source: 16B0628-01 Prepared: 02/16/16 Analyzed: 02/17/16 | | | | | | | | | | |
| Mercury | 0.386 | 0.031 | mg/Kg dry | | 0.502 | | | 26.1 | 35 | |
| Matrix Spike (B142234-MS1) Source: 16B0628-01 Prepared: 02/16/16 Analyzed: 02/17/16 | | | | | | | | | | |
| Mercury | 0.675 | 0.064 | mg/Kg dry | 0.212 | 0.502 | 81.8 | 75-125 | | | |
| Batch B142272 - SW-846 3050B | | | | | | | | | | |
| Blank (B142272-BLK1) Prepared: 02/16/16 Analyzed: 02/18/16 | | | | | | | | | | |
| 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 (B142272-BS1) Prepared: 02/16/16 Analyzed: 02/17/16 | | | | | | | | | | |
| Arsenic | 93.0 | 4.5 | mg/Kg wet | 98.5 | | 94.4 | 77.8-122.1 | | | |
| Barium | 306 | 4.5 | mg/Kg wet | 308 | | 99.4 | 82-117.4 | | | |
| Cadmium | 140 | 0.45 | mg/Kg wet | 146 | | 95.6 | 81.9-118.2 | | | |
| Chromium | 179 | 0.89 | mg/Kg wet | 182 | | 98.2 | 78.7-120.6 | | | |
| Lead | 122 | 1.3 | mg/Kg wet | 130 | | 93.7 | 82.4-117.8 | | | |
| Selenium | 145 | 8.9 | mg/Kg wet | 154 | | 94.2 | 77.1-122.3 | | | |
| Silver | 36.5 | 0.89 | mg/Kg wet | 40.9 | | 89.2 | 74.3-125.4 | | | |
| LCS Dup (B142272-BSD1) Prepared: 02/16/16 Analyzed: 02/17/16 | | | | | | | | | | |
| Arsenic | 89.6 | 4.9 | mg/Kg wet | 98.5 | | 91.0 | 77.8-122.1 | 3.70 | 30 | |
| Barium | 287 | 4.9 | mg/Kg wet | 308 | | 93.3 | 82-117.4 | 6.34 | 30 | |
| Cadmium | 131 | 0.49 | mg/Kg wet | 146 | | 89.8 | 81.9-118.2 | 6.24 | 30 | |
| Chromium | 174 | 0.99 | mg/Kg wet | 182 | | 95.7 | 78.7-120.6 | 2.62 | 30 | |
| Lead | 113 | 1.5 | mg/Kg wet | 130 | | 86.9 | 82.4-117.8 | 7.53 | 30 | |
| Selenium | 137 | 9.9 | mg/Kg wet | 154 | | 89.1 | 77.1-122.3 | 5.55 | 30 | |
| Silver | 35.3 | 0.99 | mg/Kg wet | 40.9 | | 86.3 | 74.3-125.4 | 3.25 | 30 | |

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

QUALITY CONTROL

Metals Analyses (Total) - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|-------------------------------------|--------|-----------------|-----------|-------------|---------------------------------------|------|-------------|-----|-----------|-------|
| Batch B142272 - SW-846 3050B | | | | | | | | | | |
| MRL Check (B142272-MRL1) | | | | | Prepared: 02/16/16 Analyzed: 02/18/16 | | | | | |
| Lead | 0.785 | 0.72 | mg/Kg wet | 0.721 | | 109 | 80-120 | | | |

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

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 B142226 - % Solids

Duplicate (B142226-DUP1)

Source: 16B0628-01

Prepared: 02/16/16 Analyzed: 02/17/16

| | | | | | | | | | | |
|----------|------|--|------|--|------|--|--|------|----|--|
| % Solids | 77.9 | | % Wt | | 76.9 | | | 1.29 | 20 | |
|----------|------|--|------|--|------|--|--|------|----|--|

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

SD-01

SW-846 8082A

Lab Sample ID: 16B0628-01 Date(s) Analyzed: 02/17/2016 02/17/2016

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

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

| ANALYTE | COL | RT | RT WINDOW | | CONCENTRATION | %D |
|--------------|-----|------|-----------|------|---------------|------|
| | | | FROM | TO | | |
| Aroclor-1254 | 1 | 0.00 | 0.00 | 0.00 | 0.28 | |
| | 2 | 0.00 | 0.00 | 0.00 | 0.39 | 34.6 |
| Aroclor-1260 | 1 | 0.00 | 0.00 | 0.00 | 0.32 | |
| | 2 | 0.00 | 0.00 | 0.00 | 0.30 | 7.1 |

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

SD-02

SW-846 8082A

Lab Sample ID: 16B0628-02 Date(s) Analyzed: 02/17/2016 02/17/2016

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

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

| ANALYTE | COL | RT | RT WINDOW | | CONCENTRATION | %D |
|--------------|-----|------|-----------|------|---------------|------|
| | | | FROM | TO | | |
| Aroclor-1248 | 1 | 0.00 | 0.00 | 0.00 | 0.25 | |
| | 2 | 0.00 | 0.00 | 0.00 | 0.26 | 3.9 |
| Aroclor-1254 | 1 | 0.00 | 0.00 | 0.00 | 0.32 | |
| | 2 | 0.00 | 0.00 | 0.00 | 0.40 | 21.0 |

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

| |
|--------------|
| SD-03 |
|--------------|

Lab Sample ID: 16B0628-03 Date(s) Analyzed: 02/17/2016 02/17/2016

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

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

| ANALYTE | COL | RT | RT WINDOW | | CONCENTRATION | %D |
|--------------|-----|------|-----------|------|---------------|------|
| | | | FROM | TO | | |
| Aroclor-1248 | 1 | 0.00 | 0.00 | 0.00 | 0.73 | |
| | 2 | 0.00 | 0.00 | 0.00 | 0.84 | 13.6 |
| Aroclor-1254 | 1 | 0.00 | 0.00 | 0.00 | 1.1 | |
| | 2 | 0.00 | 0.00 | 0.00 | 1.3 | 20.3 |
| Aroclor-1260 | 1 | 0.00 | 0.00 | 0.00 | 0.34 | |
| | 2 | 0.00 | 0.00 | 0.00 | 0.28 | 18.8 |

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

SD-05

SW-846 8082A

Lab Sample ID: 16B0628-05 Date(s) Analyzed: 02/17/2016 02/17/2016

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

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

| ANALYTE | COL | RT | RT WINDOW | | CONCENTRATION | %D |
|--------------|-----|------|-----------|------|---------------|------|
| | | | FROM | TO | | |
| Aroclor-1254 | 1 | 0.00 | 0.00 | 0.00 | 0.18 | |
| | 2 | 0.00 | 0.00 | 0.00 | 0.22 | 17.8 |

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

| |
|--------------|
| SD-06 |
|--------------|

Lab Sample ID: 16B0628-06 Date(s) Analyzed: 02/17/2016 02/17/2016

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

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

| ANALYTE | COL | RT | RT WINDOW | | CONCENTRATION | %D |
|--------------|-----|------|-----------|------|---------------|------|
| | | | FROM | TO | | |
| Aroclor-1248 | 1 | 0.00 | 0.00 | 0.00 | 0.15 | |
| | 2 | 0.00 | 0.00 | 0.00 | 0.15 | 2.6 |
| Aroclor-1254 | 1 | 0.00 | 0.00 | 0.00 | 0.17 | |
| | 2 | 0.00 | 0.00 | 0.00 | 0.20 | 16.8 |

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

| |
|--------------|
| SD-07 |
|--------------|

Lab Sample ID: 16B0628-07 Date(s) Analyzed: 02/17/2016 02/17/2016

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

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

| ANALYTE | COL | RT | RT WINDOW | | CONCENTRATION | %D |
|--------------|-----|------|-----------|------|---------------|-----|
| | | | FROM | TO | | |
| Aroclor-1248 | 1 | 0.00 | 0.00 | 0.00 | 0.23 | |
| | 2 | 0.00 | 0.00 | 0.00 | 0.22 | 2.7 |
| Aroclor-1254 | 1 | 0.00 | 0.00 | 0.00 | 0.26 | |
| | 2 | 0.00 | 0.00 | 0.00 | 0.28 | 6.3 |

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

SD-08

SW-846 8082A

Lab Sample ID: 16B0628-08 Date(s) Analyzed: 02/17/2016 02/17/2016

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

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

| ANALYTE | COL | RT | RT WINDOW | | CONCENTRATION | %D |
|--------------|-----|------|-----------|------|---------------|-----|
| | | | FROM | TO | | |
| Aroclor-1260 | 1 | 0.00 | 0.00 | 0.00 | 0.15 | |
| | 2 | 0.00 | 0.00 | 0.00 | 0.15 | 2.0 |

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

| |
|----------------|
| LCS Dup |
|----------------|

Lab Sample ID: B142207-BSD1 Date(s) Analyzed: 02/17/2016 02/17/2016

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

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

| ANALYTE | COL | RT | RT WINDOW | | CONCENTRATION | %D |
|--------------|-----|------|-----------|------|---------------|----|
| | | | FROM | TO | | |
| Aroclor-1016 | 1 | 0.00 | 0.00 | 0.00 | 0.19 | |
| | 2 | 0.00 | 0.00 | 0.00 | 0.19 | 2 |
| Aroclor-1260 | 1 | 0.00 | 0.00 | 0.00 | 0.18 | |
| | 2 | 0.00 | 0.00 | 0.00 | 0.17 | 6 |

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

Matrix Spike Dup

Lab Sample ID: B142207-MSD1 Date(s) Analyzed: 02/17/2016 02/17/2016

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

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

| ANALYTE | COL | RT | RT WINDOW | | CONCENTRATION | %D |
|--------------|-----|------|-----------|------|---------------|----|
| | | | FROM | TO | | |
| Aroclor-1016 | 1 | 0.00 | 0.00 | 0.00 | 0.31 | |
| | 2 | 0.00 | 0.00 | 0.00 | 0.36 | 16 |
| Aroclor-1260 | 1 | 0.00 | 0.00 | 0.00 | 0.72 | |
| | 2 | 0.00 | 0.00 | 0.00 | 0.66 | 9 |

FLAG/QUALIFIER SUMMARY

| | |
|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| * | QC result is outside of established limits. |
| † | Wide recovery limits established for difficult compound. |
| ‡ | Wide RPD limits established for difficult compound. |
| # | Data exceeded client recommended or regulatory level |
| ND | Not Detected |
| RL | Reporting Limit |
| DL | Method Detection Limit |
| MCL | Maximum Contaminant 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. |
| 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. |
| R-05 | Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound. |
| R-06 | Matrix spike duplicate RPD is outside of control limits. Reduced precision is anticipated for reported result for this compound in this sample. |
| S-01 | The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences. |
| 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. |

CERTIFICATIONS

Certified Analyses included in this Report

| Analyte | Certifications |
|------------------------------------|-----------------------|
| <i>SW-846 6010C in Soil</i> | |
| Arsenic | CT,NH,NY,ME,VA |
| Barium | CT,NH,NY,ME,VA |
| Cadmium | CT,NH,NY,ME,VA |
| Chromium | CT,NH,NY,ME,VA |
| Lead | CT,NH,NY,AIHA,ME,VA |
| Selenium | CT,NH,NY,ME,VA |
| Silver | CT,NH,NY,ME,VA |
| <i>SW-846 7471B in Soil</i> | |
| Mercury | CT,NH,NY,NC,ME,VA |
| <i>SW-846 8082A in Soil</i> | |
| 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 | NH,NY,NC,ME,VA |
| Aroclor-1262 [2C] | NH,NY,NC,ME,VA |
| Aroclor-1268 | NH,NY,NC,ME,VA |
| Aroclor-1268 [2C] | NH,NY,NC,ME,VA |
| <i>SW-846 8260C in Soil</i> | |
| Acetone | CT,NH,NY,ME,VA |
| Acrylonitrile | CT,NH,NY,ME,VA |
| Benzene | CT,NH,NY,ME,VA |
| Bromobenzene | NH,NY,ME,VA |
| Bromochloromethane | NH,NY,ME,VA |
| Bromodichloromethane | CT,NH,NY,ME,VA |
| Bromoform | CT,NH,NY,ME,VA |
| Bromomethane | CT,NH,NY,ME,VA |
| 2-Butanone (MEK) | CT,NH,NY,ME,VA |
| n-Butylbenzene | CT,NH,NY,ME,VA |
| sec-Butylbenzene | CT,NH,NY,ME,VA |
| tert-Butylbenzene | CT,NH,NY,ME,VA |
| Carbon Disulfide | CT,NH,NY,ME,VA |
| Carbon Tetrachloride | CT,NH,NY,ME,VA |
| Chlorobenzene | CT,NH,NY,ME,VA |
| Chlorodibromomethane | CT,NH,NY,ME,VA |
| Chloroethane | CT,NH,NY,ME,VA |

CERTIFICATIONS

Certified Analyses included in this Report

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

CERTIFICATIONS

Certified Analyses included in this Report

| Analyte | Certifications |
|---------|----------------|
|---------|----------------|

SW-846 8260C in Soil

o-Xylene CT,NH,NY,ME,VA

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

| Code | Description | Number | Expires |
|------|----------------------------------------------|---------------|------------|
| AIHA | AIHA-LAP, LLC | 100033 | 02/1/2018 |
| MA | Massachusetts DEP | M-MA100 | 06/30/2016 |
| CT | Connecticut Department of Public Health | PH-0567 | 09/30/2017 |
| NY | New York State Department of Health | 10899 NELAP | 04/1/2016 |
| NH-S | New Hampshire Environmental Lab | 2516 NELAP | 02/5/2017 |
| RI | Rhode Island Department of Health | LAO00112 | 12/30/2016 |
| NC | North Carolina Div. of Water Quality | 652 | 12/31/2016 |
| NJ | New Jersey DEP | MA007 NELAP | 06/30/2016 |
| FL | Florida Department of Health | E871027 NELAP | 06/30/2016 |
| VT | Vermont Department of Health Lead Laboratory | LL015036 | 07/30/2016 |
| WA | State of Washington Department of Ecology | C2065 | 02/23/2016 |
| ME | State of Maine | 2011028 | 06/9/2017 |
| VA | Commonwealth of Virginia | 460217 | 12/14/2016 |
| NH-P | New Hampshire Environmental Lab | 2557 NELAP | 09/6/2016 |

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



Sample Receipt Checklist

CLIENT NAME: Coneco RECEIVED BY: JDL DATE: 2/15/2016

1) Was the chain(s) of custody relinquished and signed? Yes X No No COC Incl.

2) Does the chain agree with the samples? Yes X No

If not, explain:

3) Are all the samples in good condition? Yes X No

If not, explain:

4) How were the samples received:

On Ice X Direct from Sampling Ambient In Cooler(s) X

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

Temperature °C by Temp blank Temperature °C by Temp gun 5.8

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

Who was notified Date Time

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

Who was notified Date Time

7) Location where samples are stored:

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

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

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

10) Was the PC notified of any discrepancies with the CoC vs the samples: Yes N/A X

Containers received at Con-Test

| | # of containers | | | # of containers |
|--------------------------------|-----------------|--|----------------------|-----------------|
| 1 Liter Amber | | | 16 oz amber | |
| 500 mL Amber | | | 8 oz amber/clear jar | 8 |
| 250 mL Amber (8oz amber) | | | 4 oz amber/clear jar | |
| 1 Liter Plastic | | | 2 oz amber/clear jar | |
| 500 mL Plastic | | | Plastic Bag / Ziploc | |
| 250 mL plastic | | | SOC Kit | |
| 40 mL Vial - type listed below | 24 | | Perchlorate Kit | |
| Colisure / bacteria bottle | | | Flashpoint bottle | |
| Dissolved Oxygen bottle | | | Other glass jar | |
| Encore | | | Other | |

| | | |
|----------------------------------------------|-------------------------|--------------------------------------------------|
| 40 mL vials: # HCl <u> </u> | # Methanol <u>8</u> | Time and Date Frozen: 2/15/16 1640 |
| Doc# 277 # Bisulfate <u> </u> | # DI Water <u>16</u> | |
| Rev. 4 August 2013 # Thiosulfate <u> </u> | Unpreserved <u> </u> | |

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

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

Doc #277 Rev. 4 August 2013 **Who notified of False statements?**
Log-In Technician Initials: JDL

Date/Time:
2/15/16 1640