PHASE II ENVIRONMENTAL SITE INVESTIGATION REPORT

OF

PROPOSED ADDITION TO PUBLIC SCHOOL 450Q
28-01 41ST AVENUE
QUEENS, NEW YORK 11101

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EXECUTIVE SUMMARY

At the request of the New York City School Construction Authority (NYCSCA), TRC Engineers, Inc. (TRC) conducted a Phase II Environmental Site Investigation (ESI) at the site of a proposed addition to Public School (P.S.) 450Q (hereafter referred to as the "Site"). The Site is located at 28-01 41st Avenue in Long Island City, Queens, New York 11101. The legal description of the Site is Block 404, portion of Lot 1.

The Site consists of an approximately 47,000 square foot (sf) asphalt-paved lot improved with a playground and parking area that is associated with a four-story school building adjoining the Site to the south. Historically, the Site was developed with 13 residences (one- and two-story), six stores (one- and two-story), and a two-story building labeled "Chinese Laundry" located on the northeastern portion of the Site. By 1936 the buildings had been razed and the Site was used as a playground for the adjacent school building. Since 1936, the Site use has remained unchanged, but the southern portion of the Site has also been used for automobile parking. A Test Fit/Sketch Study dated February 3, 2016 was provided by the NYCSCA. The Test Fit/Sketch Study considers a stand-alone, five-story building with basement to be constructed north of the existing school building in the area which is currently improved with a playground.

The Site is bounded to the north and northeast by 40th Avenue followed by an industrial building, a church with a rectory, and a religious facility; to the east and southeast by 29th Street followed by residential/commercial buildings, a hotel, a church, and a Metropolitan Transportation Authority (MTA) facility under construction; to the south and southwest by a four-story public school facility (P.S. 450Q) followed by 41st Avenue; and, to the west and northwest by 28th Street followed by residential and commercial buildings and a vacant lot.

TRC performed a Phase I Environmental Site Assessment (ESA) for the Site for the NYCSCA. The Phase I ESA Report, dated March 10, 2016, identified on-Site recognized environmental conditions (RECs)/historical RECs/vapor encroachment conditions (VECs) associated with the historic use of a former Site building as "Chinese Laundry"; the potential presence of fill material and suspect buried structures; and listings in the regulatory agency database for a closed spill case and petroleum bulk storage tanks. Additionally, one of the on-site petroleum storage tanks was closed-in-place in 2015, but updated closure documentation was not submitted to the New York State Department of Environmental Conservation, which is considered a regulatory compliance issue.

The purpose of the Phase II ESI was two-fold: 1) to determine if the RECs, VECs, and environmental concerns identified in the Phase I ESA Report require special consideration and/or affect the suitability of the Site for use as a public school facility; and, 2) to preliminarily characterize the environmental condition of the soil anticipated to be excavated for development of the proposed new addition to the Site. Phase II ESI field activities were performed on March 12, 19 and 20, 2016. The investigation consisted of a geophysical survey; the advancement of soil borings; installation of temporary soil vapor probes and groundwater monitoring wells and, the collection and laboratory analysis of soil vapor, soil, and groundwater samples.

Based on the results of the Phase II ESI, the following can be concluded:

- A release from the two 15,000-gallon USTs located in the southeastern portion of the Site was not identified based on the field findings and laboratory analytical data. Note that one of the on-Site petroleum storage tanks is active and one of the tanks was closed-in-place in 2015, but updated closure documentation was not submitted to the New York State Department of Environmental Conservation.
- Petroleum- and chlorinated solvent- related VOCs were detected in soil vapor at concentrations exceeding background comparison criteria, with the detected PCE concentration in two samples exceed the NYSDOH AGV. The detected concentrations are attributable to an off-site source since these compounds were not detected in soil samples at the Site. Formaldehyde was not detected in any of the soil vapor samples.
- VOCs were not detected in the soil samples at concentrations above Unrestricted Use SCOs and/or CP-51 SCLs.
- The SVOCs benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, dibenz(a,h)anthracene, and indeno(1,2,3-cd)pyrene); the metals arsenic, barium, cadmium, copper, lead, mercury and zinc; and the pesticides 4,4'-DDD and 4,4'-DDT were detected in one or more soil samples at concentrations above their respective Unrestricted Use SCOs. TRC attributes the detected SVOC, metal, and pesticide concentrations exceeding the regulatory criteria to the characteristics of fill material at the Site since there was no evidence of contamination observed in these soil samples.
- Based on the total lead and total barium concentrations, two soil samples were selected for Toxicity Characteristic Leaching Procedure (TCLP) lead and barium analyses and two soil samples were selected for TCLP lead analysis only. The results of TCLP lead analysis showed that the leachable lead concentrations in three of the four samples did not exceed the toxicity characteristic standard of 5 milligrams per liter (mg/L). The results of TCLP lead analyses for one sample (TRC-SB-1 (10-12)) was 7.6 mg/L, which exceeds the toxicity characteristic for lead of 5 mg/L. The results of TCLP barium analysis showed that the concentrations of TCLP barium did not exceed the toxicity characteristic for barium of 100 mg/L.
- Groundwater sampling analytical data revealed that metals were detected in groundwater above regulatory criteria and were attributed to the characteristics of Site soils and/or turbidity of groundwater. Four SVOCs were detected at concentrations marginally above their respective Class GA Values in two groundwater samples.

To address the RECs, VECs, and environmental concerns that require special considerations and/or affect the suitability of the Site for use as a school facility, TRC recommends the following:

- As a preventive measure an active sub-slab depressurization system and soil vapor barrier should be integrated into the building design to prevent petroleum-related and solvent-related VOCs in soil vapor from entering the proposed school building.
- Based on the results of preliminary design sampling that was completed during the Phase II ESI, a pre-design investigation should be performed in the area of soil boring location TRC-SB-1 to confirm the extent of hazardous lead impacted soil.
- If soil is to be excavated during construction activities of the proposed public school facility, TRC recommends properly characterizing the soil to identify appropriate material handling, reuse, and/or disposal requirements. Excavated material should be managed in accordance with applicable federal, state, and local laws and regulations and in consideration of the results of the

characterization sampling and analysis. Additionally, the project construction specifications should require completion of waste characterization sampling by the contractor.

- The Test Fit/Sketch Study provided by the NYCSCA indicates that a new stand-alone five-story building with a basement is to be constructed on the Site. The proposed new addition to the Site may encounter the two USTs during construction activities. A determination should be made regarding the continued operation of the two USTs. If the USTs interfere with construction of the proposed new addition, they should be closed and removed in accordance with NYSDEC requirements.
- After the proposed new building and grounds are constructed, if exposed soil (landscaped areas) are incorporated into the development of the Site, any exposed soil should be covered by a minimum 2-foot thick layer of environmentally clean fill.
- Although not anticipated based on the presumed depth of groundwater, if dewatering is necessary during school construction activities, it is expected that characterization and treatment of dewatering effluent may be required prior to discharge to the municipal sewer. Dewatering, groundwater treatment, and disposal should be performed in accordance with applicable local, state and federal regulations. Dewatering required during construction should be minimized to mitigate potential influx of contaminated water from off-site sources toward the Site.
- Any suspect ACM, LBP, PCB-containing materials, including buried structures, affected by Site development should be properly managed during such activities.

A description of the recommended engineering control and associated cost estimate is included in *Appendix F*.

1.0 INTRODUCTION

1.1 Purpose

At the request of the New York City School Construction Authority (NYCSCA), TRC Engineers, Inc. (TRC) conducted a Phase II Environmental Site Investigation (ESI) at the site of a proposed addition to Public School (P.S.) 450Q (hereafter referred to as the "Site"). The Site is located at 28-01 41st Avenue in Long Island City, Queens, New York 11101. The legal description of the Site is Block 404, portion of Lot 1. *Figure 1* presents a Site Location Map.

The Site consists of an approximately 47,000 square foot (sf) asphalt-paved lot improved with a playground and parking area that is associated with a four-story school building adjoining the Site to the south. Historically, the Site was developed with 13 residences (one- and two-story), six stores (one- and two-story), and a two-story building labeled "Chinese Laundry" located on the northeastern portion of the Site. By 1936 the buildings had been razed and the Site was used as a playground for the adjacent school building. Since 1936, the Site use has remained unchanged, but the southern portion of the Site has also been used for automobile parking. A Test Fit/Sketch Study dated February 3, 2016 was provided by the NYCSCA. The Test Fit/Sketch Study considers a stand-alone, five-story building with basement to be constructed north of the existing school building in the area which is currently improved with a playground. The Test Fit/Sketch Study is provided in *Appendix E*.

The Site is bounded to the north and northeast by 40th Avenue followed by an industrial building, a church with a rectory, and a religious facility; to the east and southeast by 29th Street followed by residential/commercial buildings, a hotel, a church, and a Metropolitan Transportation Authority (MTA) facility under construction; to the south and southwest by a four-story public school facility (P.S. 450Q) followed by 41st Avenue; and, to the west and northwest by 28th Street followed by residential and commercial buildings and a vacant lot.

This Phase II ESI was performed as a follow up to the Phase I Environmental Site Assessment (ESA) prepared by TRC dated March 10, 2016. Its purpose is to determine if the Recognized Environmental Conditions (RECs), Vapor Encroachment Conditions (VECs), or environmental concerns identified on the Site or adjacent areas in the Phase I ESA require special considerations and/or may have affected the suitability of the Site for construction of the proposed new addition to the Site. The analytical data collected during this study will also assist in preliminarily characterizing the soil if excavation is required for development of the new addition to the Site. To accomplish these objectives, Phase II ESI field activities were performed on March 12, 19 and 20, 2016. The investigation consisted of a geophysical survey; the advancement of soil borings; installation of temporary soil vapor probes and groundwater monitoring wells; and, the collection and laboratory analysis of soil vapor, soil, and groundwater samples.

1.2 Recognized Environmental Conditions, Vapor Encroachment Conditions and Environmental Concerns

A Phase I ESA was completed by TRC in March 2016. The Phase I ESA revealed the following RECs, historic RECs (HRECs), and/or VECs and in connection with the Site:

<u>On-Site RECs/VECs:</u>

- The Site address is listed in the New York State Department of Environmental Conservation (NYSDEC) Petroleum Bulk Storage (PBS) database (ID 2-478776) for two in-service 15,000-gallon No. 6 fuel oil underground storage tanks (USTs) that were installed in 1999. The USTs are located beneath the southeastern corner of the Site (adjacent to the 450Q school building and 29th Street). According to the school's Custodial Engineer, one of the tanks was closed-in-place in 2015; however, updated PBS information and closure documentation has not been submitted to the NYSDEC.

- The Site address is listed in the New York (NY) Spills database (Spill Case No: 0011166) due to a 1/12/2001 release caused by "buried leaking pipe fittings" associated with two 15,000-gallon USTs, which underlie the southeastern portion of the Site. The piping was repaired, approximately 10 cubic yards of soil were removed and endpoint soil sample results revealed no exceedances of the regulatory criteria. According to the database report, a closure report was prepared and submitted to the NYSDEC. The spill case was closed in 2003; therefore, this release is considered a HREC.

- A building formerly located on the northeastern portion of the Site was identified as "Chinese Laundry".

- Potential historic fill of unknown origin and buried structures from demolition of former buildings may be present at the Site.

Off-Site RECs/VECs:

- The historic and current uses of nearby properties as dry cleaners and, the historic uses of surrounding properties as garages, garages with gasoline tanks, auto repair/service shops, machine shops, motor repair shops, cleaning and dyeing facilities, undertakers, chemical labs, sheet metal shops, manufacturers, and warehouses.

- Adjacent and nearby facilities are listed in the following regulatory agency databases: PBS tanks; NY Spills / Leaking Underground Storage Tanks (LTANKS); New York State Inactive Hazardous Waste Disposal Site (SHWS); Brownfield Cleanup Program; Registered Dry Cleaners; Environmental Data Resources (EDR) United States (US) Historic Auto Stations; EDR US Historic Cleaners; E-designation; and Resource Conservation and Recovery Information System (RCRIS) Generators/Transporters (Gen/Trans).

Summary of Environmental Concerns:

The Phase I ESA revealed evidence of environmental concerns in connection with the Site, including the following:

- Suspect asbestos-containing material (ACM), lead-based paint (LBP), and/or polychlorinated biphenyl (PCB)-containing material may be present in potential fill material and suspect buried structures.

- According to the school's Custodial Engineer, one of the tanks was closed-in-place in 2015, but updated PBS information and closure documentation has not been submitted to the NYSDEC.

Based on the results of the Phase I ESA, TRC recommended performing a Phase II ESI consisting of soil vapor (including formaldehyde), soil, and groundwater sampling to determine whether the identified RECs and/or VECs have affected the suitability of the Site for use as a public school facility.

2.0 DESCRIPTION OF PHASE II ESI FIELD ACTIVITIES

Phase II ESI field activities were performed on March 12, 19, and 20, 2016; and consisted of the following:

- A geophysical survey to verify that the proposed boring locations were clear of subsurface utilities and structures, and to identify potential buried structures (i.e., underground storage tanks) in other accessible areas of the Site;
- Installation of seven (7) soil vapor probes. Collection and laboratory analysis of a soil vapor sample from each vapor probe;
- Advancement of 11 soil borings; continuous soil sampling to a maximum depth of 35 feet below ground surface (bgs); and, selection for laboratory analysis of discrete soil samples from the borings; and
- Installation of five (5) temporary 1-inch diameter, slotted, polyvinyl chloride (PVC) groundwater monitoring wells. Collection and analysis of groundwater samples from four (4) of the five (5) temporary monitoring wells.

A Site Plan showing the sampling locations, Site features, and tax block and lot designations is provided as *Figure 2*. Representative photographs of the field investigation activities are included in *Appendix A*.

The Phase II ESI was conducted in general accordance with TRC's Phase II ESI Scope of Work dated March 11, 2016, with the following exceptions:

- As part of the Phase II ESI, three (3) soil borings (TRC-UST-1 through TRC-UST-3) were proposed to be installed around the accessible areas of the two (2) on-site 15,000-gallon USTs to assess for potential impacts. Due to the presence and proximity of underground utilities identified near the USTs, TRC's geophysical subcontractor could not clear a proposed boring location to the east of the two USTs (TRC-UST-3). Field observations from the soil borings installed to the west (TRC-UST-1) and to the north (TRC-UST-2) of the two USTs found no indicators of contamination or elevated photoionization detector (PID) measurements in the soil samples collected from soil borings TRC-UST-1 and TRC-UST-2. Based on the field observations, and discussions with NYCSCA, proposed soil boring TRC-UST-3 was not installed.

- Groundwater samples were collected from four (4) of the five (5) temporary monitoring wells for laboratory analysis. A groundwater sample could not be collected from the temporary monitoring well installed in soil boring TRC-SB-3 due to poor groundwater recharge.

The scope of the field activities and methods are described below.

2.1 Geophysical Survey

A geophysical survey was performed on March 12, 2016 by Nova Geophysical Services of Douglaston, New York to determine the location and extent of subsurface anomalies (e.g., USTs and associated ancillary piping, subsurface piping and utility lines, buried foundations and structures, etc.) and to verify that the proposed sample locations were clear of subsurface structures and utilities. The geophysical survey equipment consisted of Software and Sensor's 250 Megahertz (MHz) ground penetrating radar (GPR) antenna. The area of each soil boring location was surveyed. Sample locations were established in areas that did not conflict with subsurface structures or utilities.

A copy of the geophysical survey report is presented as *Appendix B.*

2.2 Asbestos Clearance

New York Environmental and its subcontractor cored through the asphalt pavement and performed the asbestos testing and sample collection on March 10, 2016. New York Environmental provided asbestos laboratory analysis results in a letter report dated March 14, 2016 (refer to *Appendix C.*) The results of the analyses revealed that there were no asbestos containing materials identified.

2.3 Soil Vapor Survey

A soil vapor survey was conducted as part of the Phase II ESI to evaluate the potential for vapor intrusion at the Site. Seven (7) soil vapor samples were collected for laboratory analysis. *Figure 2* shows the locations of the soil vapor survey points advanced at the Site as part of the Phase II ESI.

2.3.1 Soil Vapor Sampling

The soil vapor sampling program was completed on March 19 and 20, 2016 in conformance with the applicable procedures described in ASTM E 2600-10 "Standard Guide for Vapor Encroachment Screening on Property Involved in Real Estate Transactions" and the protocols outlined in the New York State Department of Health (NYSDOH) "Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York", dated October 2006 (NYSDOH Vapor Intrusion Guidance Document). Aquifer Drilling & Testing (ADT) of Mineola, New York was retained as a subcontractor by TRC for drilling services on March 19 and 20, 2016. *Figure 2* presents the soil vapor sampling locations.

The rationale for each sample follows:

- TRC-SV-1 – provide spatial coverage of the southwest portion of the Site and investigate potential impacts from on- and off-site RECs/VECs.
- TRC-SV-2 – provide spatial coverage of the western portion of the Site and investigate potential impacts from on- and off-site RECs/VECs.
- TRC-SV-3 – provide spatial coverage of the northwest portion of the Site and investigate potential impacts from on- and off-site RECs/VECs.
- TRC-SV-4 – provide spatial coverage of the central portion of the Site and investigate potential impacts from on- and off-site RECs/VECs.
- TRC-SV-5 – provide spatial coverage of the southeast portion of the Site and investigate potential impacts from on- and off-site RECs/VECs.
- TRC-SV-6 – provide spatial coverage of the eastern portion of the Site and investigate potential impacts from on- and off-site RECs/VECs.
- TRC-SV-7 – provide spatial coverage of the northeast portion of the Site and investigate potential impacts from on- and off-site RECs/VECs.

The soil vapor samples were collected using a direct-drive system (i.e., Geoprobe). The soil vapor samples were collected at approximately 5 feet bgs by installing a stainless steel vapor probe connected to polyethylene tubing and sealing the annular space with hydrated bentonite.

The adequacy of each seal was tested in accordance with the NYSDOH-approved method for vapor sampling using a cardboard box placed over the borehole and sealed from the ambient air using bentonite. Helium tracer gas was then pumped into the box. The above grade end of the tubing, which is the sample collection point, was then attached to a helium gas detector. The adequacy of the seal was verified by direct helium readings of less than 10 percent. The temporary soil vapor probes were then purged using a photoionization detector (PID) to evacuate three volumes of soil vapor. PID readings during purging ranged from 0.2 to 2.7 parts per million (ppm).

The soil vapor samples were collected in laboratory-supplied individually certified-clean 6-liter SUMMA canisters for an approximately 1-hour sampling period. The samples were collected for one hour to obtain a sufficient sample volume to utilize United States Environmental Protection Agency (USEPA) Method TO-15. Immediately after opening the SUMMA canister, the initial vacuum (inches of mercury) was noted. After approximately one (1) hour, a final vacuum reading was noted and the SUMMA canister was closed. Upon completion, the soil vapor points were backfilled to near grade surface with the drill cuttings and then the ground surface was restored to its original condition.

The soil vapor samples were analyzed for a list of 26 petroleum and chlorinated solvent related volatile organic compounds (VOCs) and formaldehyde by USEPA Method TO-15 (low level sensitivity). The canisters were properly labeled and transported via courier to Con-Test Analytical Laboratories (Con-Test) of East Longmeadow, MA utilizing standard chain-of-custody procedures. Con-Test is a NYSDOH Environmental Laboratory Approval Program (ELAP)-certified analytical laboratory, whose current certification has been verified by TRC. A summary of the analytical results is provided in Table 1 and a copy of the analytical laboratory results is attached in Appendix C.

2.4 Subsurface Soil Investigation

A soil sampling program was conducted as part of the Phase II ESI. Soil samples were collected to assess the potential for a release from the two 15,000-gallon USTs located in the southeastern portion of the Site, to assess the current environmental conditions, and to characterize subsurface soil at the Site. *Figure 2* shows the locations of the soil borings advanced at the Site as part of the Phase II ESI. Eleven (11) soil borings were completed, and twenty-one (21) soil samples were selected for laboratory analysis. Soil sampling was conducted in accordance with the procedures set forth in the NYSDEC DER-10 Technical Guidance for Site Investigation and Remediation, dated May 2010 (DER-10).

The subsurface soil sampling was performed on March 19 and 20, 2016. ADT of Mineola, New York was retained as a subcontractor by TRC for drilling services.

Direct push drilling methods, utilizing a track mounted direct drive rig (i.e., Geoprobe), were used to retrieve soil samples from 11 boring locations. Soil samples were collected continuously from the ground surface to a maximum boring depth of 35 feet bgs in 5-foot long, 2-inch diameter macro-core samplers lined with acetate sleeves. A description of the soils retained in each sample core was logged by TRC's on-Site environmental scientist and the soils were screened in the field for the presence of VOCs with a PID. The soil boring logs are presented in *Appendix D.* Upon completion of each boring, each borehole was backfilled with drill cuttings, well sand and hydrated bentonite and then the ground surface was restored to its original condition.

The following soil borings were advanced around the accessible areas of the USTs to assess for potential impacts for the USTs:

- Soil boring TRC-UST-1 was advanced to the west of the two 15,000-gallon USTs to an approximate depth of 15 feet bgs. One soil sample collected from below the invert of the two USTs, from 13 to 14 feet bgs, was selected for laboratory analysis.
- Soil boring TRC-UST-2 was advanced to the north of the two 15,000-gallon USTs to an approximate depth of 15 feet bgs. One soil sample collected from below the invert of the two USTs, from 13 to 14 feet bgs, was selected for laboratory analysis.

The following soil borings TRC-SB-1 through TRC-SB-9 were advanced on the Site to provide spatial coverage on the Site and investigate potential impacts from on- and off-site RECs:

- Soil boring TRC-SB-1 was advanced in the southwestern portion of the Site to an approximate depth of 35 feet bgs. One soil sample collected from 1 to 3 feet bgs and one soil sample collected from 10 to 12 feet bgs were selected for laboratory analysis.
- Soil boring TRC-SB-2 was advanced in the western portion of the Site to an approximate depth of 35 feet bgs. One soil sample collected from 1 to 3 feet bgs and one soil sample collected from 10 to 12 feet bgs were selected for laboratory analysis.
- Soil boring TRC-SB-3 was advanced in the northwestern portion of the Site to an approximate depth of 35 feet bgs. One soil sample collected from 1 to 3 feet bgs and one soil sample collected from 10 to 12 feet bgs were selected for laboratory analysis.
- Soil boring TRC-SB-4 was advanced in the southern portion of the Site to an approximate depth of 25 feet bgs. One soil sample collected from 1 to 3 feet bgs and one soil sample collected from 10 to 12 feet bgs were selected for laboratory analysis.
- Soil boring TRC-SB-5 was advanced in the central portion of the Site to an approximate depth of 35 feet bgs. One soil sample collected from 1 to 3 feet bgs and one soil sample collected from 10 to 12 feet bgs were selected for laboratory analysis.
- Soil boring TRC-SB-6 was advanced in the northern portion of the Site to an approximate depth of 35 feet bgs. One soil sample collected from 1 to 3 feet bgs and one soil sample collected from 10 to 12 feet bgs were selected for laboratory analysis.
- Soil boring TRC-SB-7 was advanced in the southeastern portion of the Site to an approximate depth of 35 feet bgs. One soil sample collected from 1 to 3 feet bgs and one soil sample collected from 10 to 12 feet bgs were selected for laboratory analysis.
- Soil boring TRC-SB-8 was advanced in the eastern portion of the Site to an approximate depth of 35 feet bgs. One soil sample collected from 1 to 3 feet bgs and one soil sample collected from 10 to 12 feet bgs were selected for laboratory analysis.
- Soil boring TRC-SB-9 was advanced in the northeastern portion of the Site to an approximate depth of 35 feet bgs. One soil sample collected from 1 to 3 feet bgs and one soil sample collected from 10 to 12 feet bgs were selected for laboratory analysis.

There were no visual and olfactory indications of contamination (i.e., elevated PID readings, staining, and odor) observed in the soil samples collected from the soil borings.

Fill material consisting of brown and gray sand, silty sand, gravel, brick, and rock fragments was encountered at the Site to a maximum depth of approximately thirteen (13) feet bgs. The subsurface below the identified fill material consisted of brown and gray sand and silty sand to the terminal depth of the borings which ranged from 15 to 35 feet bgs.

PID responses throughout the depth of each boring and the laboratory analyses performed on the soil samples are summarized in the table below.

Summary of PID Screening Results and Soil Sample Analytical Plan

Soil Boring Identification Number	Boring Depth (ft bgs unless otherwise noted)	Depth of Sample Intervals Selected for Analysis (ft bgs unless otherwise noted)	PID Reading (ppm)	TCL/CP-51VOCs plus TICs	TCL/CP-51 SVOs plus TICs	CP-51 TABLE 3 PARAMETERS	TAL METALS	PCBs	TOTAL PETROLEUM HYDROCARBONS	TCLP LEAD	TCLP BARIUM	TCL PESTICIDES AND HERBICIDES	HEXAVALENT CHROMIUM	CYANIDE
TRC-UST-1	15	13-14	0.0			X								
TRC-UST-2	15	13-14	0.0			X								
TRC-SB-1	35	1-3	0.0	X	X		X	X		X	X	X		
		10-12	0.0	X	X		X	X	X	X		X	X	X
TRC-SB-2	35	1-3	0.0	X	X		X	X	X	X	X	X	X	X
		10-12	0.0	X	X		X	X				X		
TRC-SB-3	35	1-3	0.0	X	X		X	X				X		
		10-12	0.0	X	X		X	X				X		
TRC-SB-4	25	1-3	0.0	X	X		X	X				X		
		10-12	0.0	X	X		X	X				X		
DUP-1		10-12	0.0	X	X		X	X				X		
TRC-SB-5	35	1-3	0.0	X	X		X	X				X		
		10-12	0.0	X	X		X	X	X			X	X	X
TRC-SB-6	35	1-3	0.0	X	X		X	X	X			X	X	X
		10-12	0.0	X	X		X	X		X		X		
TRC-SB-7	35	1-3	0.0	X	X		X	X				X		
		10-12	0.0	X	X		X	X	X			X	X	X
TRC-SB-8	35	1-3	0.0	X	X		X	X				X		
		10-12	0.0	X	X		X	X				X		
TRC-SB-9	35	1-3	0.0	X	X		X	X				X		
		10-12	0.0	X	X		X	X				X		

X - Sample analysis performed
TICs – Tentatively identified compounds

The procedure for the selection of soil samples from soil borings TRC-UST-1, TRC-UST-2, and TRC-SB-1 through TRC-SB-9 for analysis was as follows:

- At soil boring locations TRC-UST-1 and TRC-UST-2, since no apparent impacted soils were identified based on field observations and PID readings; one soil sample was collected from the depth below the invert of the two USTs, approximately 13 to 14 feet bgs.

- At soil boring locations TRC-SB-1 through TRC-SB-9, since no apparent impacted soils were identified based on field observations and PID readings; one soil sample was collected from approximately 1-3 feet bgs (the interval is presumed to encompass historic fill) and a second soil sample was collected at a depth of 10-12 feet bgs (presumed development depth).

Selected discrete soil samples were analyzed for the following parameters: NYSDEC CP-51 Table 3, USEPA Target Compound List (CP-51/TCL) listed VOCs plus tentatively identified compounds (TICs); CP-51/TCL listed semi-volatile organic compounds (SVOCs) plus TICs; PCBs; Target Analyte List (TAL) metals (less AL, Ca, Fe, K, Mg, and Na); pesticides and herbicides.

Additionally, in support of pre-design waste classification objectives, one (1) soil sample from TRC-SB-1, TRC-SB-2, TRC-SB-5, TRC-SB-6, and TRC-SB-7 was selected for laboratory analysis for total petroleum hydrocarbons, cyanide, and hexavalent chromium. Additionally, based on the total lead and total barium concentrations, the soil sample from TRC-SB-1 (1-3) was selected for Toxicity Characteristic Leaching Procedure (TCLP) lead and barium analyses; the soil sample from TRC-SB-1 (10-12) was selected for TCLP lead analysis; the soil sample from TRC-SB-2 (1-3) was selected for TCLP lead and barium analyses; and the soil sample from TRC-SB-6 (10-12) was selected for TCLP lead analysis.

The samples were collected and containerized in accordance with NYSDEC/USEPA protocols. Each container was properly labeled, preserved, and placed in a cooler for transport via courier to Con-Test in East Longmeadow, MA. Con-Test is a NYSDOH ELAP-certified analytical laboratory whose current certification has been verified by TRC. Standard chain-of-custody procedures were followed.

2.5 Groundwater Investigation

A groundwater sampling program was conducted as part of the Phase II ESI. Groundwater samples were collected to assess the current environmental condition of groundwater at the Site. *Figure 2* shows the locations of the groundwater samples collected at the Site during the Phase II ESI. Groundwater samples were collected from the following four (4) temporary monitoring wells: TRC-SB-1/GW-1, TRC-SB-5/GW-3, TRC-SB-7/GW-4, and TRC-SB-9/GW-5.

The groundwater sampling program was completed on March 19 and 20, 2016. ADT was retained as a subcontractor by TRC for drilling services. Groundwater samples were collected by installing temporary 1 inch PVC monitoring wells below the observed water table[1]. Groundwater was encountered at a depth of approximately 27 to 30 feet bgs. Groundwater samples were collected using a check valve and dedicated Teflon lined tubing. Prior to the collection of groundwater samples, sample locations were purged until groundwater turbidity reached a minimum (e.g., less than 50 Nephelometric Turbidity Units [NTUs] was the goal) and other parameters stabilized. Conductivity, salinity, dissolved oxygen, pH, temperature, and turbidity were monitored using a Horiba™ water quality meter during purging. There were no visual or olfactory indications of contamination observed in the groundwater samples collected. A summary of groundwater field screening results and the groundwater sample analytical plan is presented in the table below.

[1] An attempt was made to collect a groundwater sample at location TRC-SB-3/GW-2, however, a groundwater sample could not be collected from the temporary monitoring well installed in the soil boring due to poor groundwater recharge in the temporary well.

Groundwater Sample Analytical Plan

Groundwater Sample Identification Number	Depth to Water (ft bgs)	Sheen or Odor?	TCL/CP-51 VOCs plus TICs	TCL/CP-51 SVOCs plus TICs	TAL Metals (total)	TAL Metals (dissolved)	NYCDEP Sewer Use Parameters
TRC-SB-1/GW-1	29	No	X	X	X	X	
TRC-SB-5/GW-3	30	No	X	X	X	X	
TRC-SB-7/GW-4	30	No	X	X	X	X	
TRC-SB-9/GW-5	28	No	X	X	X	X	X

X - Sample analysis performed

Groundwater samples were collected from locations TRC-SB-1/GW-1, TRC-SB-5/GW-3, TRC-SB-7/GW-4, and TRC-SB-9/GW-5 and were analyzed for TCL/CP-51 VOCs plus TICs, TCL/CP-51 list SVOCs plus, and TAL Metals (less Al, Ca, Fe, K, Mg and Na) both unfiltered and laboratory filtered. The groundwater sample from TRC-SB-9/GW-5 was additionally analyzed for New York City Department of Environmental Protection (NYCDEP) Sewer Use Parameters.

The samples were collected and containerized in accordance with NYSDEC/USEPA protocols. Each container was properly labeled, preserved, and placed in a cooler for transport via courier to Con-Test of East Longmeadow, MA. Con-Test is a NYSDOH ELAP-certified analytical laboratory whose current certification has been verified by TRC. Standard chain-of-custody procedures were followed. Upon completion, the temporary wells were removed, the boreholes were backfilled to near grade surface with the drill cuttings and/or well sand, and the ground surface was restored to its original condition.

3.0 SITE DESCRIPTION AND PHYSICAL CHARACTERISTICS

The Site consists of an approximately 47,000 sf asphalt-paved lot improved with a playground and parking area that is associated with a four-story school building adjoining the Site to the south. TRC understands that the planned Site development includes the construction of an addition to Public School 450Q. A Test Fit/Sketch Study dated February 3, 2016 was provided by the NYCSCA. The Test Fit/Sketch Study considers a stand-alone, five-story building with basement to be constructed north of the existing school building in the area which is currently improved with a playground. The Test Fit/Sketch Study is provided in *Appendix E*.

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The Site is bounded to the north and northeast by 40th Avenue followed by an industrial building, a church with a rectory, and a religious facility; to the east and southeast by 29th Street followed by residential/commercial buildings, a hotel, a church, and a Metropolitan Transportation Authority (MTA) facility under construction; to the south and southwest by a four-story public school facility (P.S. 450Q) followed by 41st Avenue; and, to the west and northwest by 28th Street followed by residential and commercial buildings and a vacant lot. A site location map is shown on *Figure 1* and Site features are shown on *Figure 2*.

3.1 Topography

Based on field observations, the topography of the Site and immediate surrounding area slopes downward to the east and south. According to the United States Geological Survey (USGS) 7.5-Minute Quadrangle Maps (Central Park, NY-NJ, 2013 and Brooklyn, NY, 2013) the Site elevation is approximately 35 feet above mean sea level (amsl). A copy of the topographic map is presented in *Figure 1*.

3.2 Geology

The geology of Queens County can be characterized as a wedge-shaped layer of Cretaceous and Pleistocene unconsolidated sediments, thickening to the south-southeast. Several impermeable clay layers are found within this sediment package, generally creating three distinct aquifers. Consolidated crystalline bedrock is of Precambrian age. The thickness of the unconsolidated sequence ranges from zero to approximately 1,300 feet bgs from north to south. The southernmost portions of Queens consist of glaciofluvial sediments derived from melt-water of the retreating glaciers.

Bedrock was not encountered during the Phase II ESI. Fill material consisting of brown and gray sand, silty sand, gravel, brick, and rock fragments was encountered at the Site to a maximum depth of approximately thirteen (13) feet bgs. The subsurface native material below the identified fill material consisted of brown and gray sand and silty sand to the terminal depth of the borings which ranged from 15 to 35 feet bgs.

3.3 Hydrology

Under natural, undisturbed conditions, shallow groundwater flow generally follows the topography of the land surface and on this basis, the topography suggests that groundwater flows across the Site in a southeasterly direction towards Dutch Kills, a tributary of Newtown Creek. Dutch Kills is located approximately 0.5 miles south-southwest of the Site. Based on information gathered during the Phase II

ESI, groundwater was encountered at the Site at depths ranging from 27 to 30 feet bgs. Groundwater in this section of Queens is not used as a source of potable water.

4.0 DISCUSSION OF FINDINGS

This section presents a discussion of the findings of the Phase II ESI. Tabulated results of laboratory analyses are presented in the Tables section of this report. Laboratory quality control (QC) issues for specific media, if present, are discussed in the appropriate sections below. The complete laboratory analytical data packages are included in *Appendix C*.

4.1 Applicable Regulatory Standards

This subsection identifies the Health Effects Institute (HEI), USEPA, NYSDEC, NYSDOH, NYCDEP and/or ASTM regulatory standards and guidelines used to evaluate the results of the soil vapor, subsurface soil, and groundwater samples. The standards and guidelines used to evaluate the specific data are described individually below.

4.1.1 Soil Vapor Guidelines

The analytical results for the soil vapor samples were compared to the NYSDOH Air Guideline Values (AGVs) presented in the NYSDOH Vapor Intrusion Guidance Document and the NYSDOH September 2013 Tetrachloroethene in Indoor and Outdoor Air Fact Sheet. Additionally, the soil vapor sample results were compared to background levels of VOCs in indoor air presented in Appendix C of the NYSDOH Vapor Intrusion Guidance Document, including Upper Fence Limit indoor air values from "Table C-1. NYSDOH 2003: Study of Volatile Organic Chemicals in Air of Fuel Oil Heated Homes," 90th Percentile indoor air values from "Table C-2. EPA 2001: Building Assessment and Survey Evaluation (BASE) Database, SUMMA canister method," and the 95th Percentile Indoor Air Values from "Table C-5, HEI 2005: Relationship of Indoor, Outdoor and Personal Air." The results of the analyses of the soil vapor samples were also compared to Matrices 1 and 2 in the NYSDOH Vapor Intrusion Guidance Document. Finally, the results were compared to the 95th Percentile Concentrations in Existing Residences published in Appendix X7 of ASTM E 2600-08 "Standard Practice for Assessment of Vapor Intrusion into Structures on Property Involved in Real Estate Transactions."

4.1.2 Soil Cleanup Objectives (SCOs)

The Unrestricted Use SCOs found in 6 NYCRR 375-6, Remedial Program Soil Cleanup Objectives are the appropriate standards for use in evaluating the results of the analyses of the Phase II ESI soil samples. Soil which is free of contaminants above these standards is suitable for "unrestricted use" which is the land use category without imposed restrictions, such as environmental easements or other land use controls.

In addition, the Soil Cleanup Levels (SCLs) for Fuel Oil Contaminated Soil found in Table 3 of CP-51 were used to evaluate the VOC and SVOC soils data. CP-51 replaces the Technical and Administrative Guidance Memorandum (TAGM) 4046: Determination of Soil Cleanup Objectives and Cleanup Levels (January 24, 1994); the Petroleum Site Inactivation and Closure Memorandum (February 23, 1998); and, Sections III and IV of Spill Technology and Remediation Series (STARS) Memo #1 (August 1992).

4.1.3 Groundwater Quality Standards and Guidance Values

Analytical results for groundwater were compared to New York State Class GA groundwater standards and guidance values published in the NYSDEC Division of Water Technical and Operational Guidance Series (TOGS) 1.1.1, "Ambient Water Quality Standards and Guidance Values." Ambient water quality standards are enforceable regulatory limits. Where ambient water quality standards do not exist, ambient water quality guidance values were used to evaluate the groundwater results.

4.1.4 Sewer Guidance Values

Analytical results for sewer data were compared to the daily limits set forth in the NYCDEP Bureau of Wastewater Treatment "Limitations for Effluent to Sanitary or Combined Sewers."

4.1.5 Hazardous Waste Values

The result for the TCLP analyses was compared to the 6 NYCRR Part 373 and 40 CFR Part 261 regulations for characteristic hazardous waste.

4.2 Geophysical Survey Findings

Nova conducted a geophysical survey of the Site to identify anomalies and potential subsurface structures (*i.e.*, USTs), and to verify that the proposed intrusive sample locations were clear of subsurface utilities. GPR revealed the presence of the two 15,000-gallon USTs underneath the asphalt-paved parking area on the southeastern portion of the Site (near 29th Street). The flush-mounted fill ports and steel plate-covered access ports were observed in the parking area above the tanks. A remote fill port is located on the sidewalk along 29th Street. The vents for the USTs are adjacent to the school building.

A metal grating, associated with an underground electrical vault, was identified in the northeast portion of the Site (fenced-in handball courts). The geophysical survey identified subsurface anomalies consistent with utilities which were marked during the Survey. The electrical lines associated with the underground electrical vault appear to be located approximately 12 feet bgs, are oriented in a north-south direction, and extend along the eastern portion of the Site in close proximity to the two USTs. Stormwater leaves the Site through drains/underground piping which were also identified on the eastern portion of the Site and in close proximity to the two USTs. There were no other buried structures or utilities identified during the performance of the geophysical survey. Based on these findings, sample locations were established in areas that did not conflict with subsurface structures or utilities. The geophysical survey report is presented as *Appendix B*.

4.3 Soil Vapor Survey Findings

A review of the soil vapor sample analytical results indicate that 13 of the 26 VOCs analyzed utilizing USEPA Method TO-15 was detected in one or more samples.

A summary of the analytical results for VOCs in soil vapor is summarized in *Table 1*. Formaldehyde analysis was also performed in each of the soil vapor samples collected and formaldehyde was not detected in any of the soil vapor samples above the reporting limit of 15 parts per billion by volume (ppbv). The complete analytical data report is presented in *Appendix C*. A summary of the detected compounds at a concentration greater than anticipated background levels and/or the AGV is provided below.

Summary of VOCs in Soil Vapor Detected at Concentrations Greater than Air Guideline Values (AGVs) and/or Background Concentrations

Sample ID Date Sample Collected Units	TRC-SV-1 3/19/16 µg/m³	TRC-SV-2 3/19/16 µg/m³	TRC-SV-3 3/20/16 µg/m³	TRC-SV-4 3/20/16 µg/m³	TRC-SV-5 3/19/16 µg/m³	TRC-SV-6 3/19/16 µg/m³	NYSDOH Air Guideline Value µg/m³	NYSDOH 2003 Fuel Oil Upper Fence Limit Indoor Air µg/m³	USEPA BASE 90th Percentile Value Indoor Air µg/m³	Health Effects Institute 2005 95th Percentile Value Indoor Air µg/m³
Ethylbenzene	5	4.9	<0.87	**12**	2.8	2.7	--	6.4	5.7	7.62
Tetrachloroethene (PCE)	3.9	0.92	**24**	**34**	1.3	**79**	30	2.5	15.9	6.01
Toluene	**540**	**350**	1.7	4	**390**	3.4	--	57	43	--
m&p-Xylenes	16	15	3.5	**41**	9.9	12	--	11	22.2	22.2
o-Xylene	5.1	5.2	1.3	**11**	3.2	3.9	--	7.1	7.9	7.24

Notes:

µg/m³ = micrograms per cubic meter
-- = Not Available
< = Less than reporting limit
Bold = Result exceeds range of anticipated background concentrations
= Result exceeds AGV

As shown above, ethylbenzene, tetrachloroethene (PCE), toluene, m&p-xylenes, and o-xylene were detected above the range of background concentrations.

The NYSDOH has established AGVs for three (3) of the VOCs analyzed (methylene chloride, PCE, and trichloroethene [TCE]). PCE was detected in two soil vapor samples above its corresponding AGV and published background concentrations. Methylene chloride and TCE were not detected in the soil vapor sample above the corresponding AGVs.

Soil vapor sampling results for carbon tetrachloride, TCE and vinyl chloride were compared to Matrix 1 of the NYSDOH Vapor Intrusion Guidance Document. Carbon tetrachloride and vinyl chloride were not detected in the soil vapor samples. TCE was detected in two (2) soil vapor samples at concentrations of 0.69 and 1.4 µg/m³. Based on Matrix 1, the recommended actions for TCE concentrations less than 5.0 µg/m³ in soil vapor is either no further action or taking reasonable and practical actions to identify sources and reduce exposures, depending on corresponding indoor air concentrations (note – no indoor air data was collected as part of this Phase II ESI).

Soil vapor sampling results for 1,1-dichloroethene, cis-1,2-dichloroethene, PCE, and 1,1,1-trichloroethane (1,1,1-TCA) were compared to Matrix 2 of the NYSDOH Vapor Intrusion Guidance Document. 1,1-dichloroethene was not detected in the soil vapor samples. Cis-1,2-dichloroethene was detected in one (1) soil vapor sample at a concentration of 0.81 µg/m³. PCE was detected in each soil vapor sample at concentrations ranging from 0.92 to 79 µg/m³. 1,1,1-TCA was detected in four (4) soil vapor samples at concentrations ranging from 0.63 to 0.87 µg/m³. Based on Matrix 2, the recommended actions for cis-1,2-dichloroethene, PCE, and 1,1,1-TCA concentrations less than 100 µg/m³ in soil vapor is either no further action or taking reasonable and practical actions to identify sources and reduce exposures, depending on corresponding indoor air concentrations (note – no indoor air data was collected as part of this Phase II ESI).

The petroleum-related and solvent-related compounds detected in soil vapor above comparison levels were not detected at concentrations exceeding their respective regulatory standards in soil samples collected at the Site; therefore, the compounds detected in soil vapor may be attributable to off-site sources.

4.4 Subsurface Soil Sampling Findings

The results of the analyses of the soil samples are presented in *Table 2* through *Table 8.* The complete analytical data report is presented in *Appendix C*. It should be noted that several compounds were qualified by the laboratory due to matrix spike recoveries, laboratory blank or duplicate samples being outside control limits, calibration errors, and/or calibrations not meeting method specifications. These qualifications are not expected to affect data usability. A review of the soil analytical results is presented below.

4.4.1 Volatile Organic Compounds (VOCs) in Soil

The results of the analysis indicate that no VOCs were detected in the soil samples at concentrations greater than their Unrestricted Use SCOs/CP-51 SCLs. The analytical data is summarized in *Tables 2 and 3*. The analytical data package is presented as *Appendix C.*

4.4.2 Semi-Volatile Organic Compounds (SVOCs) in Soil

The results of the analysis of the soil samples indicate that seven (7) of the SVOCs analyzed (benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, dibenz(a,h)anthracene, and indeno(1,2,3-cd)pyrene) were detected in four samples [TRC-SB-2 (1-3), TRC-SB-3 (1-3), TRC-SB-7 (1-3), and TRC-SB-8 (1-3)] above Unrestricted Use SCOs and SCLs. A summary of the detected compounds at a concentration greater than Unrestricted Use SCOs/SCLs is provided below.

SVOCs Detected in Soil at Concentrations Greater than Unrestricted Use SCOs/SCLs

Sample ID **Date Sampled Collected** **Units**	**TRC-SB-2 (1-3)** **3/19/16** **mg/kg**	**TRC-SB-3 (1-3)** **3/20/16** **mg/kg**	**TRC-SB-7 (1-3)** **3/19/16** **mg/kg**	**TRC-SB-8 (1-3)** **3/20/16** **mg/kg**	**Unrestricted Use SCO/CP-51 SCLs** **mg/kg**
Benzo(a)anthracene	**1.9**	**1.8**	**5.7**	0.94	1.0
Benzo(a)pyrene	**1.8**	**1.9**	**4.9**	0.91	1.0
Benzo(b)fluoranthene	**2.1**	**2.5**	**6.0**	**1.1**	1.0
Benzo(k)fluoranthene	0.80	**0.89**	**2.7**	0.37	0.8
Chrysene	**1.7**	**1.8**	**5.3**	0.91	1.0
Dibenz(a,h)anthracene	0.22	0.29	**0.69**	0.13 J	0.33
Indeno(1,2,3-cd)pyrene	**1**	**1.5**	**3.2**	**0.55**	0.5

Notes:

Bold = Result exceeds Unrestricted Use SCO/CP-51 SCL
mg/kg = milligrams per kilogram
J = compound was detected below its reporting limit but above its method detection limit.

Since there was no evidence of contamination noted in the soil samples collected, TRC attributes the detected SVOC concentrations in soil samples exceeding the Unrestricted Use SCOs to the characteristics of fill material at the Site.

The analytical data is summarized in *Tables 3 and 4*. The analytical data package is presented in *Appendix C*.

4.4.3 Metals, Cyanide and Hexavalent Chromium in Soil

The results of the analysis of the soil samples indicate that 14 of the 19[2] metals analyzed were detected in one (1) or more samples. Seven (7) of the 19 metals analyzed were detected at concentrations greater than Unrestricted Use SCOs. A summary of the detected compounds at concentrations greater than Unrestricted Use SCOs is provided below.

Metals Detected in Soil at Concentrations Greater than Unrestricted Use SCOs

Sample ID	TRC-SB-1 (1-3)	TRC-SB-1 (10-12)	TRC-SB-2 (1-3)	TRC-SB-3 (1-3)	TRC-SB-6 (1-3)	TRC-SB-6 (10-12)	TRC-SB-7 (1-3)	TRC-SB-8 (1-3)	TRC-SB-9 (1-3)	Unrestricted Use SCO
Date Sampled Collected	3/19/16	3/19/16	3/19/16	3/20/16	3/19/16	3/19/16	3/19/16	3/20/16	3/19/16	
Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Arsenic	**44**	2.3 J	8.4	0.94 J	0.78 J	8.5	<0.50	2.9	6.8	13
Barium	**3,300**	**970**	**3,300**	81	27	320	25	76	77	350
Cadmium	**3.0**	0.43	1.7	0.30	0.17 J	0.79	0.19 J	0.43	0.94	2.5
Copper	**91**	18	42	23	8.0	**83**	7.4	25	**62**	50
Lead	**17,000**	**1,300**	**9,900**	**72**	2.4	**830**	2.5	**110**	**75**	63
Mercury	**0.24**	0.052	**0.72**	**0.85**	**0.21**	0.0062 J	**0.99**	**0.74**	0.10	0.18
Zinc	**970**	62	**670**	64	12	**260**	12	88	**120**	109

Notes:

Bold = Result exceeds Unrestricted Use SCO
mg/kg = milligrams per kilogram
< = less than method detection limit
J = compound was detected below its reporting limit but above its method detection limit
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Since there was no evidence of contamination noted in the soil samples collected, TRC attributes the detected metal concentrations in the shallow soil samples (collected from depth interval of 1 to 3 feet bgs) exceeding the Unrestricted Use SCOs to the characteristics of fill material at the Site. Additionally, two (2) soil samples [TRC-SB-1 (10-12) and TRC-SB-6 (10-12)] collected below the observed fill layer contained metal concentrations exceeding the Unrestricted Use SCOs.

The presence of elevated concentrations of metals in soil samples collected from below the fill later appeared anomalous due to the absence of visual or olfactory evidence of contamination, as well as the absence of elevated concentrations of petroleum- or chlorinated solvent-related VOCs or SVOCs. In examining the laboratory data, the metals concentrations in samples TRC-SB-1 (10-12) and TRC-SB-6 (10-12) appear comparable to those detected in fill material encountered at the Site. Based on a review of the photos taken of the macro-core samplers from boring locations TRC-SB-1 and TRC-SB-6, it appears that fill material from the shallower depth intervals may have been co-mingled with the soil samples collected from the 10 to 12 foot bgs depth interval that were submitted for analyses. Based on this

[2] Includes cyanide and hexavalent chromium. Five (5) soil samples were analyzed for cyanide and hexavalent chromium for waste characterization purposes.

evaluation, TRC concludes that the elevated metal concentrations in samples TRC-SB-1 (10-12) and TRC-SB-6 (10-12) are attributable to the characteristics of fill material at the Site.

The analytical data is summarized in *Table 5* and the analytical data package is presented in *Appendix C.*

4.4.4 Polychlorinated Biphenyls (PCBs) in Soil

The results of the analysis indicate that PCBs were not detected in the soil samples at concentrations greater than their Unrestricted Use SCOs.

The analytical data is summarized in *Table 6* and the analytical data package is presented in *Appendix C.*

4.4.5 Pesticides and Herbicides in Soil

The results of the analysis of the soil samples indicate that two (2) pesticides (4,4'-DDD and 4,4'-DDT) were detected in three (3) soil samples [TRC-SB-2 (1-3), TRC-SB-7 (1-3), and TRC-SB-9 (1-3)] above Unrestricted Use SCOs. A summary of the detected compounds greater than Unrestricted Use SCOs is provided below.

Pesticides Detected in Soil at Concentrations Greater than Unrestricted Use SCOs

Sample ID **Date Sampled Collected** **Units**	**TRC-SB-2 (1-3)** **3/19/16** **mg/kg**	**TRC-SB-7 (1-3)** **3/19/16** **mg/kg**	**TRC-SB-9 (1-3)** **3/20/16** **mg/kg**	**Unrestricted Use SCO** **mg/kg**
4,4'-DDD	**0.054**	**0.037**	<0.00044	0.0033
4,4'-DDT	**0.0098**	**0.008**	**0.0041 J**	0.0033

Notes:

Bold = Result exceeds Unrestricted Use SCO
mg/kg = milligrams per kilogram
J = compound was detected below its reporting limit but above its method detection limit.
< = less than method detection limit

Since there was no evidence of contamination noted in the soil samples collected, TRC attributes the detected pesticide concentrations exceeding the Unrestricted Use SCOs to the characteristics of fill material at the Site.

The analytical data is summarized in *Table 7*. The analytical data package is presented in *Appendix C*.

4.4.6 Total Petroleum Hydrocarbons in Soil

A review of the soil sampling analytical results indicates that total petroleum hydrocarbons (TPH)-Gasoline Range Organics (GRO) was not detected in the five (5) soil samples analyzed and TPH-Diesel Range Organics (DRO) was detected in each of the five (5) soil samples analyzed.

TPH Concentrations Detected In Soil

Sample ID Date Sampled Collected Units	TRC-SB-1 (10-12) 3/19/16 mg/kg	TRC-SB-2 (1-3) 3/19/16 mg/kg	TRC-SB-5 (10-12) 3/20/16 mg/kg	TRC-SB-6 (1-3) 3/19/16 mg/kg	TRC-SB-7 (10-12) 3/19/16 mg/kg
Gasoline Range Organics (GRO)	<2.6	<1.3	<1.1	<1.1	<1.2
Diesel Range Organics (DRO)	2.4 J	740	2.2 J	1,200	2.9 J

Notes:

mg/kg = milligrams per kilogram
J = compound was detected below its reporting limit but above its method detection limit.
< = less than method detection limit

There are no applicable regulatory comparison criteria for TPH. TPH results provide information on soil disposal options for soil excavated for construction, since disposal facilities in the New York City metropolitan area typically require TPH analyses prior to accepting soil for disposal. The TPH results will not impact potential soil disposal options. The analytical data is summarized in *Table 8*. The analytical data package is presented in *Appendix C*.

4.5 Groundwater Sampling Findings

The results of the analyses of the groundwater samples are presented in *Tables 9* through *11*. The complete analytical data report is presented in *Appendix C*. A review of the groundwater analytical results is presented below.

4.5.1 Volatile Organic Compounds (VOCs) in Groundwater

The results of the analysis of the groundwater samples indicate that detectable concentrations of VOCs were present in three (3) groundwater samples (TRC-GW-3, TRC-GW-4, and TRC-GW-5). The laboratory results indicate that none of the detected VOC concentrations were above their respective Class GA Values.

The analytical data is summarized in *Table 9*. The complete analytical data report is presented in *Appendix C*.

4.5.2 Semivolatile Organic Compounds (SVOCs) in Groundwater

The results of the analysis of the groundwater samples indicate that the SVOCs benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene and chrysene were detected at concentrations above their respective Class GA Values in groundwater samples TRC-GW-1 and TRC-GW-4. The following table summarizes the SVOCs detected at concentrations greater than Class GA Values.

SVOCs Detected in Groundwater at Concentrations Greater than Class GA Values

Sample ID Date Sampled Collected Units	TRC-GW-1 3/19/16 µg/L	TRC-GW-4 3/19/16 µg/L	Class GA Value µg/L
Benzo(a)anthracene	<0.047	**0.051**	0.002
Benzo(a)pyrene	**0.043 J**	<0.040	0.002
Benzo(b)fluoranthene	**0.079**	**0.032 J**	0.002
Chrysene	**0.075 J**	**0.05 J**	0.002

Notes:

Bold = Result exceeds Class GA Value
µg/L = micrograms per liter
J = compound was detected below its reporting limit but above its method detection limit.
< = less than method detection limit

The analytical data summary table is presented in *Table 10*. The complete analytical data report is presented in *Appendix C*.

4.5.3 Metals in Groundwater

A review of the results of the analyses of groundwater indicates that 14 of the 17 metals analyzed for were detected in the groundwater samples. Seven (7) of the 14 detected metals were found at concentrations exceeding their respective Class GA values and are summarized below.

Metals Detected in Groundwater at Concentrations Greater than Class GA Values

Sample ID Date Sample Collected Units	TRC-GW-1 (Total) 3/19/16 (µg/L)	TRC-GW-3 (Total) 3/19/16 (µg/L)	TRC-GW-3 (Dissolved) 3/19/16 (µg/L)	TRC-GW-4 (Total) 3/19/16 (µg/L)	TRC-GW-4 (Dissolved) 3/19/16 (µg/L)	TRC-GW-5 (Total) 3/20/16 (µg/L)	Class GA Value (µg/L)
Barium	900	**1,100**	190	**1,100**	63	**3,600**	1,000
Beryllium	**3.2**	2.3	<0.30	2.5	<0.30	1 J	3
Chromium	**240**	**160**	2.8 J	**160**	<2.2	**57**	50
Copper	**350**	180	5.2 J	**210**	3.4 J	85	200
Lead	**130**	**48**	1.1 J	**130**	<0.27	23	25
Manganese	**8,600**	**7,000**	**490**	**12,000**	**490**	**7,600**	300
Nickel	**220**	**180**	15 J	**190**	11 J	**110**	100

Notes:

Bold = Result exceeds Class GA Value
µg/L = micrograms per liter
J = compound was detected below its reporting limit but above its method detection limit.
< = less than method detection limit

As expected, total metal concentrations are generally greater than the dissolved metal concentrations due to the turbidity of the groundwater samples. TRC attributes the detected metal concentrations exceeding Class GA Values to the characteristics of Site soil and/or the turbidity of groundwater. The analytical results are summarized in *Table 11*. The complete analytical data report is presented in *Appendix C*.

4.5.4 Comparison of Groundwater to NYCDEP Sewer Use Discharge Parameters

With the exception of pH, NYCDEP Sewer Use Discharge Parameters were not detected in groundwater sample TRC-GW-5 above their respective NYCDEP Sewer Use Discharge Limit. Due to a calibration error with the field instrumentation used, a pH reading was not recorded.

A detailed summary of the analytical results for NYCDEP Discharge Limits in groundwater is presented in *Table 12*. The complete analytical data reports are presented in *Appendix C*.

4.6 Pre-Design Characterization Sampling Results

In support of pre-design waste characterization, five (5) soil samples [TRC-SB-1 (10-12), TRC-SB-2 (1-3), TRC-SB-5 (1-3), TRC-SB-6 (1-3), and TRC-SB-7 (10-12) were selected for analysis for cyanide, hexavalent chromium, TPH-DRO and TPH-GRO. Hexavalent chromium was not detected in the soil samples analyzed at concentrations above its MDL. Cyanide was only detected in soil sample TRC-SB-6 (1-3) at a concentration of 0.26 mg/kg, which is below its Unrestricted Use SCO of 27 mg/kg. TPH-DRO was detected in all five soil samples at concentrations ranging from 2.2 to 1,200 mg/kg. TPH-GRO was not detected in any of the soil samples analyzed. There are no applicable regulatory comparison criteria for TPH. TPH results provide information on soil disposal options for soil excavated for construction, since disposal facilities in the New York City metropolitan area typically require TPH analyses prior to accepting soil for disposal. The TPH results will not impact potential soil disposal options.

A review of the total detected metal concentrations in soil samples TRC-SB-1 (1-3), TRC-SB-1 (10-12), TRC-SB-2 (1-3), and TRC-SB-6 (10-12) indicates that they have the potential to exhibit the toxicity characteristic for lead and soil samples TRC-SB-1 (1-3) and TRC-SB-2 (1-3) have the potential to exhibit the toxicity characteristic for barium; therefore, TCLP analysis was performed on these samples.

The results of TCLP lead analysis showed that the leachable lead concentrations in three of the four samples did not exceed the toxicity characteristic standard of 5 milligrams per liter (mg/L). The results of TCLP lead analyses for sample TRC-SB-1 (10-12) was 7.6 mg/L, which exceeds the toxicity characteristic for lead of 5 mg/L.

The results of TCLP barium analysis showed that the concentration of TCLP barium in soil samples TRC-SB-1 (1-3) and TRC-SB-2 (1-3) did not exceed the toxicity characteristic for barium of 100 mg/L.

As discussed in Section 4.4.3, the presence of elevated concentrations of metals in soil samples collected from below the fill later appeared anomalous due to the absence of visual or olfactory evidence of contamination, as well as the absence of elevated concentrations of petroleum- or chlorinated solvent-related VOCs or SVOCs. Based on an evaluation of field observations and the laboratory results, TRC concludes that the elevated metal concentrations in samples TRC-SB-1 (10-12) and TRC-SB-6 (10-12) are attributable to the characteristics of fill material at the Site.

A detailed summary of the analytical results for waste characterization sampling, including TPH-DRO, TPH-GRO, cyanide, hexavalent chromium, and TCLP lead is presented in *Tables 5, 8, and 13*. The complete analytical data report is presented in *Appendix C*.

4.7 Summary of Findings

TRC performed a Phase II ESI consisting of a geophysical survey; the advancement of soil borings; installation of temporary soil vapor probes and groundwater monitoring wells; and, the collection and laboratory analysis of soil vapor, soil, and groundwater samples. The results of the Phase II ESI indicate the following:

- The geophysical survey identified subsurface anomalies consistent with utilities which were marked during the survey. The geophysical survey identified electrical lines and drains/underground piping which appear to be located approximately 12 feet bgs, are oriented in a north-south direction, and extend along the eastern portion of the Site in close proximity to the two (2) 15,000-gallon USTs located on the southeastern portion of the Site.
- Seven (7) soil vapor samples were collected and analyzed for VOCs and formaldehyde. Petroleum- and solvent-related compounds were detected in soil vapor above background comparison levels and PCE was detected in two soil vapor samples above its corresponding AGV. The petroleum- and solvent-related compounds concentrations detected in soil vapor above background comparison levels were not detected at concentrations exceeding their respective regulatory standards in soil samples collected at the Site; therefore, the compounds detected in soil vapor may be attributable to an off-site source. The results of analyses of soil vapor samples were also evaluated with respect to the matrices in the NYSDOH Vapor Intrusion Guidance Document, which indicates that the recommended action is no further action or taking reasonable and practical actions to identify the source(s) and reduce exposure, depending upon corresponding indoor air concentrations.
- Eleven (11) soil borings were advanced on the Site to a maximum depth of 35 feet bgs and bedrock was not encountered. Fill material consisting of brown and gray sand, silty sand, gravel, brick, and rock fragments was encountered at the Site to a maximum depth of approximately thirteen (13) feet bgs. The subsurface native material below the identified fill material consisted of brown and gray sand and silty sand to the terminal depth of the borings which ranged from 15 to 35 feet bgs. Groundwater was encountered at depths ranging from 27 to 30 feet bgs.
- Elevated PID readings, visual and olfactory indications of contamination were not observed in soil samples collected from the soil borings. Twenty-one (21) soil samples were submitted for laboratory analysis.
- No VOCs were detected in the soil samples at concentrations above Unrestricted Use SCOs and/or CP-51 SCLs.
- The SVOCs benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, dibenz(a,h)anthracene, and indeno(1,2,3-cd)pyrene); the metals arsenic, barium, cadmium, copper, lead, mercury and zinc; and the pesticides 4,4'-DDD and 4,4'-DDT were detected in one or more shallow soil samples (i.e., fill material) at concentrations above their respective Unrestricted Use SCOs. TRC attributes the detected SVOC, metal, and pesticide concentrations exceeding the regulatory criteria to the characteristics of fill material at the Site since there was no field evidence of contamination observed in these soil samples.
- A review of the soil sampling analytical results indicated that four soil samples had the potential to exhibit the toxicity characteristic for lead and two soil samples had the potential to exhibit the toxicity characteristic for barium; therefore, TCLP analysis was run on these samples. Lead was detected in one sample at a concentration exceeding the toxicity characteristic for lead, which

indicates that soil excavated from the vicinity of the boring location will need to be managed as hazardous waste.

- Four (4) groundwater samples were collected at the Site. The SVOCs benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene and chrysene were detected at concentrations marginally above their respective Class GA Values in groundwater samples. Total metals concentrations of barium, beryllium, chromium, copper, lead, manganese and nickel, were detected in groundwater in one or more samples at concentrations exceeding the corresponding Class GA Values. The dissolved metals concentrations in these groundwater samples did not exceed their respective Class GA Values with the exception of manganese in two groundwater samples. As expected, total metal concentrations are generally greater than the dissolved metal concentrations due to the turbidity of the groundwater samples. TRC attributes the detected metal concentrations exceeding Class GA Values to the characteristics of Site soil and/or the turbidity of groundwater.
- One (1) groundwater sample collected at the Site was analyzed for NYCDEP Sewer Use Discharge Limits. The results of the analyses revealed there were no parameters exceeding the NYCDEP Sewer Use Discharge Limits. Although not anticipated based on the presumed depth of groundwater, if dewatering is necessary during school construction activities, it is expected that characterization and treatment of dewatering effluent may be required prior to discharge to the municipal sewer.

5.0 CONCLUSIONS AND RECOMMENDATIONS

Based on the results of the Phase II ESI, the following can be concluded:

- A release from the two 15,000-gallon USTs located in the southeastern portion of the Site was not identified based on the field findings and laboratory analytical data. Note that one of the on-Site petroleum storage tanks is active and one of the tanks was closed-in-place in 2015, but updated closure documentation was not submitted to the New York State Department of Environmental Conservation.
- Petroleum- and chlorinated solvent- related VOCs were detected in soil vapor at concentrations exceeding background comparison criteria, with the detected PCE concentration in two samples exceed the NYSDOH AGV. The detected concentrations are attributable to an off-site source since these compounds were not detected in soil samples at the Site. Formaldehyde was not detected in any of the soil vapor samples.
- VOCs were not detected in the soil samples at concentrations above Unrestricted Use SCOs and/or CP-51 SCLs.
- The SVOCs benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, dibenz(a,h)anthracene, and indeno(1,2,3-cd)pyrene); the metals arsenic, barium, cadmium, copper, lead, mercury and zinc; and the pesticides 4,4'-DDD and 4,4'-DDT were detected in one or more soil samples at concentrations above their respective Unrestricted Use SCOs. TRC attributes the detected SVOC, metal, and pesticide concentrations exceeding the regulatory criteria to the characteristics of fill material at the Site since there was no evidence of contamination observed in these soil samples.
- Based on the total lead and total barium concentrations, two soil samples were selected for TCLP lead and barium analyses and two soil samples were selected for TCLP lead analysis only. The results of TCLP lead analysis showed that the leachable lead concentrations in three of the four samples did not exceed the toxicity characteristic standard of 5 mg/L. The results of TCLP lead analyses for one sample (TRC-SB-1 (10-12)) was 7.6 mg/L, which exceeds the toxicity characteristic for lead of 5 mg/L. The results of TCLP barium analysis showed that the concentrations of TCLP barium did not exceed the toxicity characteristic for barium of 100 mg/L.

To address the RECs, VECs, and environmental concerns that require special considerations and/or affect the suitability of the Site for use as a school facility, TRC recommends the following:

- As a preventative measure, an active sub-slab depressurization system and soil vapor barrier should be integrated into the building design to prevent petroleum-related and solvent-related VOCs in soil vapor from entering the proposed school building.
- Based on the results of preliminary design sampling that was completed during the Phase II ESI, a pre-design investigation should be performed in the area of soil boring location TRC-SB-1 to confirm the extent of hazardous lead impacted soil.
- If soil is to be excavated during construction activities of the proposed public school facility, TRC recommends properly characterizing the soil to identify appropriate material handling, reuse, and/or disposal requirements. Excavated material should be managed in accordance with applicable federal, state, and local laws and regulations and in consideration of the results of the

characterization sampling and analysis. Additionally, the project construction specifications should require completion of waste characterization sampling by the contractor.

- The Test Fit/Sketch Study provided by the NYCSCA indicates that a new stand-alone five-story building with a basement is to be constructed on the Site. The proposed new addition to the Site may encounter the two USTs during construction activities. A determination should be made regarding the continued operation of the two USTs. If the USTs interfere with construction of the proposed new addition, they should be closed and removed in accordance with NYSDEC requirements.
- After the proposed new building and grounds are constructed, if exposed soil (landscaped areas) are incorporated into the development of the Site, any exposed soil should be covered by a minimum 2-foot thick layer of environmentally clean fill.
- Although not anticipated based on the presumed depth of groundwater, if dewatering is necessary during school construction activities, it is expected that characterization and treatment of dewatering effluent may be required prior to discharge to the municipal sewer. Dewatering, groundwater treatment, and disposal should be performed in accordance with applicable local, state and federal regulations. Dewatering required during construction should be minimized to mitigate potential influx of contaminated water from off-site sources toward the Site.
- Any suspect ACM, LBP, PCB-containing materials, including buried structures, affected by Site development should be properly managed during such activities.

A description of the recommended engineering control and associated cost estimate is included in *Appendix F*.

6.0 SIGNATURES OF ENVIRONMENTAL PROFESSIONALS

TRC Engineers, Inc. (TRC) has performed a Phase II ESI of the Proposed Addition to Public School 450Q at 28-01 41st Avenue, Queens, New York 11101. The scope of the Phase II ESI was consistent with the scope of work dated March 11, 2016 with the exception stated in Section 2.0.

TRC Engineers, Inc.

Prepared By: _____
Patrick Narea
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Reviewed By: _____
Richard Wetherbee
QC Officer

7.0 REFERENCES

- 6 NYCRR 375, effective December 14, 2006: New York State Department of Environmental Conservation Rules and Regulations, Remedial Program Requirements.
- ASTM International (ASTM) E 2600-08 "Standard Practice for Assessment of Vapor Intrusion into Structures on Property Involved in Real Estate Transactions".
- ASTM E 2600-10 "Standard Guide for Vapor Encroachment Screening on Property Involved in Real Estate Transactions"
- New York State Department of Environmental Conservation. Commissioner Policy 51 / Soil Cleanup Guidance, October 21, 2010.
- New York State Department of Health, Center for Environmental Health, Bureau of Environmental Exposure Investigation, *Guidance for Evaluating Soil Vapor Intrusion in the State of New York, October 2006*.
- New York State Department of Health, "Guidance for Evaluating Soil Vapor Intrusion in the State of New York", October 2006
- New York State Department of Health, "Tetrachloroethene (Perc) in Indoor and Outdoor Air", September 2013 Fact Sheet
- TRC Engineers, Inc., *Phase I Environmental Site Assessment of Proposed Addition to Public School 450Q, 28-01 41st Avenue, Queens, New York 11101, March 10, 2016.*
- TRC Engineers, Inc., *Phase II Environmental Site Investigation Scope of Work, Proposed Addition to Public School 450Q, 28-01 41st Avenue, Queens, New York 11101, March 11, 2016.*
- United States Geological Survey. *7.5-Minute Quadrangle Maps: Central Park, NY-NJ, 2013 and Brooklyn, NY, 2013*.

TABLES

Table 1
Summary of Soil Vapor Analytical Results for
Select Volatile Organic Compounds and Formaldehyde
Proposed Addition to Public School - 450Q
28-01 41st Avenue
Queens, New York

	Soil Vapor							NYSDOH AGV	NYSDOH Fuel Oil 2003 Upper Fence Limit [1]	USEPA BASE Data 90th Percentile Value[1]	HEI RIOPA 2005 95th Percentile Value [1]
SAMPLE NAME	**TRC-SV-1**	**TRC-SV-2**	**TRC-SV-3**	**TRC-SV-4**	**TRC-SV-5**	**TRC-SV-6**	**TRC-SV-7**				
LAB ID NO.	**16C0972-01**	**16C0972-02**	**16C0972-03**	**16C0972-04**	**16C0972-05**	**16C0972-06**	**16C0972-07**				
DATE SAMPLE COLLECTED	**3/19/2016**	**3/19/2016**	**3/20/2016**	**3/20/2016**	**3/19/2016**	**3/20/2016**	**3/20/2016**		**Indoor**	**Indoor**	**Indoor**
VOLATILE ORGANIC COMPOUNDS (VOCs)	**Result ($\mu g/m^3$)**	**Result ($\mu g/m^3$)**	**Result ($\mu g/m^3$)**	**Result ($\mu g/m^3$)**	**Result ($\mu g/m^3$)**	**Result ($\mu g/m^3$)**	**Result ($\mu g/m^3$)**	**($\mu g/m^3$)**	**($\mu g/m^3$)**	**($\mu g/m^3$)**	**($\mu g/m^3$)**
Benzene	5.7	13	4	4.1	1.1	3	7.3	--	13	9.4	10
Carbon tetrachloride	<0.63	<0.63	<0.63	<0.63	<0.63	<0.63	<0.63	--	1.3	<1.3	1.1
Chlorobenzene	<0.92	<0.92	<0.92	<0.92	<0.92	<0.92	<0.92	--	0.4	<0.9	--
Chloroethane	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53	--	0.4	<1.1	--
Chloromethane	<0.83	1.4	<0.83	<0.83	1.2	<0.83	<0.83	--	4.2	3.7	--
1,2-Dichlorobenzene	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	--	0.5	<1.2	--
1,3-Dichlorobenzene	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	--	0.5	<2.4	--
1,1-Dichloroethane	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	--	0.4	<0.7	--
1,2-Dichloroethane	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	--	0.4	<0.9	--
1,1-Dichloroethene	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	--	0.4	<1.4	--
cis-1,2-Dichloroethene	<0.40	<0.40	0.81	<0.40	<0.40	<0.40	<0.40	--	0.4	<1.9	--
trans-1,2-Dichloroethene	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	--	--	--	--
1,2-Dichloropropane	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	--	0.4	<1.6	--
Ethylbenzene	5	4.9	<0.87	**12**	2.8	2.7	1.1	--	6.4	5.7	7.62
Methyl tert-butyl ether	<0.72	<0.72	<0.72	<0.72	<0.72	<0.72	<0.72	--	14	11.5	36
Methylene chloride	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9	60	16	10.0	7.5
Naphthalene	1.4	<1.0	1.3	1.1	1.1	1.4	<1.0	--	--	5.1	--
Tetrachloroethene (PCE)	3.9	0.92	**24**	**34**	1.3	**79**	10	30	2.5	15.9	6.01
Toluene	**540**	**350**	1.7	4	**390**	3.4	3.9	--	57	43.0	39.8
1,1,1 - Trichloroethane (TCA)	0.87	<0.55	<0.55	0.72	<0.55	0.83	0.63	--	2.5	20.6	--
Trichloroethene (TCE)	0.69	<0.54	1.4	<0.54	<0.54	<0.54	<0.54	2	0.5	4.2	1.36
1,2,4-Trimethylbenzene	2.2	2	3.9	1.2	2	2.1	<0.98	--	9.8	9.5	--
1,3,5-Trimethylbenzene	<0.98	<0.98	1.1	<0.98	<0.98	<0.98	<0.98	--	3.9	3.7	--
Vinyl chloride	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	--	0.4	<1.9	--
m&p-Xylenes	16	15	3.5	**41**	9.9	12	4.1	--	11	22.2	22.2
o-Xylene	5.1	5.2	1.3	**11**	3.2	3.9	1.4	--	7.1	7.9	7.24
Formaldehyde (Result in ppbv)	<15	<15	<15	<15	<15	<15	<15	--	--	--	--

Notes:

Items shown in bold font equal or exceed the range of published background indoor air concentrations.

Items shown in bold and shaded equal or exceed NYSDOH AGVs

$\mu g/m^3$ = micrograms per cubic meter
ppbv = parts per billion by volume
< - Less than reporting limit
-- = Not Available
AGV - Air Guideline Value
BASE - Building Assessment and Survey Evaluation
HEI RIOPA - Health Effect Institute: Relationship of Indoor, Outdoor and Personal Air
NYSDOH - New York State Department of Health
[1] - Per Appendix C of the Final NYSDOH Guidance.

Table 2
Summary of Soil Sampling Analytical Results for
Volatile Organic Compounds plus Tentatively Identified Compounds
Proposed Addition to Public School - 450Q
28-01 41st Avenue
Queens, New York

SAMPLE NAME			**DUP-1**	**TRC-SB-1 (1-3)**	**TRC-SB-1 (10-12)**	**TRC-SB-2 (1-3)**	**TRC-SB-2 (10-12)**	**TRC-SB-3 (1-3)**	**TRC-SB-3 (10-12)**	**TRC-SB-4 (1-3)**	**TRC-SB-4 (10-12)**
LAB SAMPLE ID			**16C0970-21**	**16C0970-03**	**16C0970-04**	**16C0970-05**	**16C0970-06**	**16C0970-07**	**16C0970-08**	**16C0970-09**	**16C0970-10**
DILUTION FACTOR			**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**
DATE SAMPLE COLLECTED			**3/19/2016**	**3/19/2016**	**3/19/2016**	**3/19/2016**	**3/19/2016**	**3/20/2016**	**3/20/2016**	**3/19/2016**	**3/19/2016**
VOLATILE ORGANIC COMPOUNDS (VOCs)	**Unrestricted Use SCO (mg/kg)**	**SCL (mg/kg)**	**Result (mg/kg)**	**Result (mg/kg)**	**Result (mg/kg)**	**Result (mg/kg)**	**Result (mg/kg)**	**Result (mg/kg)**	**Result (mg/kg)**	**Result (mg/kg)**	**Result (mg/kg)**
Acetone	0.05	NC	<0.022	<0.024	<0.023	<0.033	0.032 J	<0.023	<0.022	<0.024	<0.027
Benzene	0.06	0.06	<0.00067	<0.00071	<0.00067	<0.0010	<0.00081	<0.00069	<0.00066	<0.00071	<0.00080
Bromochloromethane	NC	NC	<0.0013	<0.0014	<0.0013	<0.0020	<0.0016	<0.0014	<0.0013	<0.0014	<0.0016
Bromodichloromethane	NC	NC	<0.00057	<0.00061	<0.00058	<0.00085	<0.00070	<0.00059	<0.00056	<0.00061	<0.00069
Bromoform	NC	NC	<0.0013	<0.0014	<0.0013	<0.0020	<0.0016	<0.0014	<0.0013	<0.0014	<0.0016
Bromomethane	NC	NC	<0.0016	<0.0017	<0.0016	<0.0024	<0.0020	<0.0017	<0.0016	<0.0017	<0.0019
2-Butanone (MEK)	0.12	NC	<0.017	<0.018	<0.017	<0.025	<0.020	<0.017	<0.016	<0.018	<0.020
Carbon Disulfide	NC	NC	<0.0033	<0.0035	<0.0034	<0.0050	<0.0041	<0.0034	<0.0033	<0.0036	<0.0040
Carbon Tetrachloride	0.76	NC	<0.00076	<0.00081	<0.00077	<0.0011	<0.00093	<0.00079	<0.00075	<0.00081	<0.00091
Chlorobenzene	1.1	NC	<0.00067	<0.00071	<0.00067	<0.0010	<0.00081	<0.00069	<0.00066	<0.00071	<0.00080
Dibromochloromethane	NC	NC	<0.00067	<0.00071	<0.00067	<0.0010	<0.00081	<0.00069	<0.00066	<0.00071	<0.00080
Chloroethane	NC	NC	<0.0014	<0.0015	<0.0014	<0.0021	<0.0017	<0.0015	<0.0014	<0.0015	<0.0017
Chloroform	0.37	NC	<0.00067	<0.00071	<0.00067	<0.0010	<0.00081	<0.00069	<0.00066	<0.00071	<0.00080
Chloromethane	NC	NC	<0.00086	<0.00091	<0.00087	<0.0013	<0.0010	<0.00089	<0.00084	<0.00092	<0.0010
Cyclohexane	NC	NC	<0.00076	<0.00081	<0.00077	<0.0011	<0.00093	<0.00079	<0.00075	<0.00081	<0.00091
1,2-Dibromo-3-chloropropane	NC	NC	<0.0010	<0.0011	<0.0011	<0.0016	<0.0013	<0.0011	<0.0010	<0.0011	<0.0013
1,2-Dibromoethane (EDB)	NC	NC	<0.00095	<0.0010	<0.00096	<0.0014	<0.0012	<0.00099	<0.00094	<0.0010	<0.0011
1,2-Dichlorobenzene	1.1	NC	<0.00067	<0.00071	<0.00067	<0.0010	<0.00081	<0.00069	<0.00066	<0.00071	<0.00080
1,3-Dichlorobenzene	2.4	NC	<0.00067	<0.00071	<0.00067	<0.0010	<0.00081	<0.00069	<0.00066	<0.00071	<0.00080
1,4-Dichlorobenzene	1.8	NC	<0.00076	<0.00081	<0.00077	<0.0011	<0.00093	<0.00079	<0.00075	<0.00081	<0.00091
Dichlorodifluoromethane	NC	NC	<0.0012	<0.0013	<0.0013	<0.0019	<0.0015	<0.0013	<0.0012	<0.0013	<0.0015
1,1-Dichloroethane	0.27	NC	<0.00067	<0.00071	<0.00067	<0.0010	<0.00081	<0.00069	<0.00066	<0.00071	<0.00080
1,2-Dichloroethane	0.02	NC	<0.0012	<0.0013	<0.0013	<0.0019	<0.0015	<0.0013	<0.0012	<0.0013	<0.0015
1,1-Dichloroethene	0.33	NC	<0.0010	<0.0011	<0.0011	<0.0016	<0.0013	<0.0011	<0.0010	<0.0011	<0.0013
cis-1,2-Dichloroethene	0.25	NC	<0.00076	<0.00081	<0.00077	<0.0011	<0.00093	<0.00079	<0.00075	<0.00081	<0.00091
trans-1,2-Dichloroethene	0.19	NC	<0.00086	<0.00091	<0.00087	<0.0013	<0.0010	<0.00089	<0.00084	<0.00092	<0.0010
1,2-Dichloropropane	NC	NC	<0.0012	<0.0013	<0.0013	<0.0019	<0.0015	<0.0013	<0.0012	<0.0013	<0.0015
cis-1,3-Dichloropropene	NC	NC	<0.00067	<0.00071	<0.00067	<0.0010	<0.00081	<0.00069	<0.00066	<0.00071	<0.00080
trans-1,3-Dichloropropene	NC	NC	<0.00067	<0.00071	<0.00067	<0.0010	<0.00081	<0.00069	<0.00066	<0.00071	<0.00080
Ethylbenzene	1	1	<0.00076	<0.00081	<0.00077	<0.0011	<0.00093	<0.00079	<0.00075	<0.00081	<0.00091
2-Hexanone (MBK)	NC	NC	<0.010	<0.011	<0.011	<0.016	<0.013	<0.011	<0.010	<0.011	<0.012
Isopropylbenzene	NC	2.3	<0.00067	<0.00071	<0.00067	<0.0010	<0.00081	<0.00069	<0.00066	<0.00071	<0.00080
Methyl acetate	NC	NC	<0.0015	<0.0016	<0.0015	<0.0023	<0.0019	<0.0016	<0.0015	<0.0016	<0.0018
Methyl tert-butyl ether	0.93	0.93	<0.00086	<0.00091	<0.00087	<0.0013	<0.0010	<0.00089	<0.00084	<0.00092	<0.0010
Methylcyclohexane	NC	NC	<0.00095	<0.0010	<0.00096	<0.0014	<0.0012	<0.00099	<0.00094	<0.0010	<0.0011
Methylene chloride	0.05	NC	<0.0068	<0.0072	<0.0068	<0.010	<0.0082	<0.0070	<0.0066	<0.0072	<0.0081
4-Methyl-2-Pentanone	NC	NC	<0.0072	<0.0077	<0.0073	<0.011	<0.0088	<0.0075	<0.0071	<0.0077	<0.0087
Styrene	NC	NC	<0.00057	<0.00061	<0.00058	<0.00085	<0.00070	<0.00059	<0.00056	<0.00061	<0.00069
1,1,2,2-Tetrachloroethane	NC	NC	<0.00086	<0.00091	<0.00087	<0.0013	<0.0010	<0.00089	<0.00084	<0.00092	<0.0010
Tetrachloroethene	1.3	NC	<0.0012	<0.0013	<0.0013	<0.0019	<0.0015	<0.0013	<0.0012	<0.0013	<0.0015
Toluene	0.7	0.7	<0.00076	<0.00081	<0.00077	<0.0011	<0.00093	<0.00079	<0.00075	<0.00081	<0.00091
1,2,3-Trichlorobenzene	NC	NC	<0.00057	<0.00061	<0.00058	<0.00085	<0.00070	<0.00059	<0.00056	<0.00061	<0.00069
1,2,4-Trichlorobenzene	NC	NC	<0.00076	<0.00081	<0.00077	<0.0011	<0.00093	<0.00079	<0.00075	<0.00081	<0.00091
1,1,1-Trichloroethane	0.68	NC	<0.00095	<0.0010	<0.00096	<0.0014	<0.0012	<0.00099	<0.00094	<0.0010	<0.0011
1,1,2-Trichloroethane	NC	NC	<0.0011	<0.0012	<0.0012	<0.0017	<0.0014	<0.0012	<0.0011	<0.0012	<0.0014
Trichloroethene	0.47	NC	<0.00095	<0.0010	<0.00096	<0.0014	<0.0012	<0.00099	<0.00094	<0.0010	<0.0011
Trichlorofluoromethane	NC	NC	<0.0010	<0.0011	<0.0011	<0.0016	<0.0013	<0.0011	<0.0010	<0.0011	<0.0013
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	NC	NC	<0.00086	<0.00091	<0.00087	<0.0013	<0.0010	<0.00089	<0.00084	<0.00092	<0.0010
Vinyl chloride	0.02	NC	<0.0010	<0.0011	<0.0011	<0.0016	<0.0013	<0.0011	<0.0010	<0.0011	<0.0013
m/p-Xylene	0.26(1)	0.26(2)	<0.0016	<0.0017	<0.0016	<0.0024	<0.0020	<0.0017	<0.0016	<0.0017	<0.0019
o-Xylene	0.26(1)	0.26(2)	<0.00067	<0.00071	<0.00067	<0.0010	<0.00081	<0.00069	<0.00066	<0.00071	<0.00080
Xylenes (Total)	NC	0.26	<0.0057	<0.0061	<0.0058	<0.0085	<0.0070	<0.0059	<0.0056	<0.0061	<0.0069
No TICs Found	NC	NC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Notes:
mg/kg - milligrams per kilogram
< - Less than detection limit
NC - No criterion
J - Estimated Value
SCO - Soil Cleanup Objective
SCL - Soil Cleanup Level for Gasoline Contaminated Soil based on NYSDEC Commissioner Policy CP-51.
(1) - There is no SCO for m/p xylene or o-xylene. The SCO for total xylenes is 0.26 mg/kg.
(2) - There is no SCL for m/p xylene or o-xylene. The SCL for total xylenes is 0.26 mg/kg.

Table 2
Summary of Soil Sampling Analytical Results for
Volatile Organic Compounds plus Tentatively Identified Compounds
Proposed Addition to Public School - 450Q
28-01 41st Avenue
Queens, New York

SAMPLE NAME			TRC-SB-5 (1-3)	TRC-SB-5 (10-12)	TRC-SB-6 (1-3)	TRC-SB-6 (10-12)	TRC-SB-7 (1-3)	TRC-SB-7 (10-12)	TRC-SB-8 (1-3)	TRC-SB-8 (10-12)	TRC-SB-9 (1-3)	TRC-SB-9 (10-12)
LAB SAMPLE ID			16C0970-11	16C0970-12	16C0970-13	16C0970-14	16C0970-15	16C0970-16	16C0970-17	16C0970-18	16C0970-19	16C0970-20
DILUTION FACTOR			1	1	1	1	1	1	1	1	1	1
DATE SAMPLE COLLECTED			3/20/2016	3/20/2016	3/19/2016	3/19/2016	3/19/2016	3/19/2016	3/20/2016	3/20/2016	3/20/2016	3/20/2016
VOLATILE ORGANIC COMPOUNDS (VOCs)	Unrestricted Use SCO (mg/kg)	SCL (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)
Acetone	0.05	NC	<0.022	<0.025	<0.025	<0.023	<0.023	<0.028	<0.023	<0.022	<0.021	<0.022
Benzene	0.06	0.06	<0.00067	<0.00074	<0.00075	<0.00068	<0.00068	<0.00084	<0.00068	<0.00065	<0.00061	<0.00066
Bromochloromethane	NC	NC	<0.0013	<0.0015	<0.0015	<0.0014	<0.0014	<0.0017	<0.0014	<0.0013	<0.0012	<0.0013
Bromodichloromethane	NC	NC	<0.00058	<0.00064	<0.00064	<0.00058	<0.00058	<0.00072	<0.00059	<0.00055	<0.00053	<0.00057
Bromoform	NC	NC	<0.0013	<0.0015	<0.0015	<0.0014	<0.0014	<0.0017	<0.0014	<0.0013	<0.0012	<0.0013
Bromomethane	NC	NC	<0.0016	<0.0018	<0.0018	<0.0017	<0.0017	<0.0020	<0.0017	<0.0016	<0.0015	<0.0016
2-Butanone (MEK)	0.12	NC	<0.017	<0.019	<0.019	<0.017	<0.017	<0.021	<0.017	<0.016	<0.015	<0.017
Carbon Disulfide	NC	NC	<0.0034	<0.0037	<0.0037	<0.0034	<0.0034	<0.0042	<0.0034	<0.0032	<0.0031	<0.0033
Carbon Tetrachloride	0.76	NC	<0.00077	<0.00085	<0.00085	<0.00078	<0.00078	<0.00096	<0.00078	<0.00074	<0.00070	<0.00076
Chlorobenzene	1.1	NC	<0.00067	<0.00074	<0.00075	<0.00068	<0.00068	<0.00084	<0.00068	<0.00065	<0.00061	<0.00066
Dibromochloromethane	NC	NC	<0.00067	<0.00074	<0.00075	<0.00068	<0.00068	<0.00084	<0.00068	<0.00065	<0.00061	<0.00066
Chloroethane	NC	NC	<0.0014	<0.0016	<0.0016	<0.0015	<0.0015	<0.0018	<0.0015	<0.0014	<0.0013	<0.0014
Chloroform	0.37	NC	<0.00067	<0.00074	<0.00075	<0.00068	<0.00068	<0.00084	<0.00068	<0.00065	<0.00061	<0.00066
Chloromethane	NC	NC	<0.00086	<0.00096	<0.00096	<0.00087	<0.00088	<0.0011	<0.00088	<0.00083	<0.00079	<0.00085
Cyclohexane	NC	NC	<0.00077	<0.00085	<0.00085	<0.00078	<0.00078	<0.00096	<0.00078	<0.00074	<0.00070	<0.00076
1,2-Dibromo-3-chloropropane	NC	NC	<0.0011	<0.0012	<0.0012	<0.0011	<0.0011	<0.0013	<0.0011	<0.0010	<0.00097	<0.0010
1,2-Dibromoethane (EDB)	NC	NC	<0.00096	<0.0011	<0.0011	<0.00097	<0.00097	<0.0012	<0.00098	<0.00092	<0.00088	<0.00095
1,2-Dichlorobenzene	1.1	NC	<0.00067	<0.00074	<0.00075	<0.00068	<0.00068	<0.00084	<0.00068	<0.00065	<0.00061	<0.00066
1,3-Dichlorobenzene	2.4	NC	<0.00067	<0.00074	<0.00075	<0.00068	<0.00068	<0.00084	<0.00068	<0.00065	<0.00061	<0.00066
1,4-Dichlorobenzene	1.8	NC	<0.00077	<0.00085	<0.00085	<0.00078	<0.00078	<0.00096	<0.00078	<0.00074	<0.00070	<0.00076
Dichlorodifluoromethane	NC	NC	<0.0012	<0.0014	<0.0014	<0.0013	<0.0013	<0.0016	<0.0013	<0.0012	<0.0011	<0.0012
1,1-Dichloroethane	0.27	NC	<0.00067	<0.00074	<0.00075	<0.00068	<0.00068	<0.00084	<0.00068	<0.00065	<0.00061	<0.00066
1,2-Dichloroethane	0.02	NC	<0.0012	<0.0014	<0.0014	<0.0013	<0.0013	<0.0016	<0.0013	<0.0012	<0.0011	<0.0012
1,1-Dichloroethene	0.33	NC	<0.0011	<0.0012	<0.0012	<0.0011	<0.0011	<0.0013	<0.0011	<0.0010	<0.00097	<0.0010
cis-1,2-Dichloroethene	0.25	NC	<0.00077	<0.00085	<0.00085	<0.00078	<0.00078	<0.00096	<0.00078	<0.00074	<0.00070	<0.00076
trans-1,2-Dichloroethene	0.19	NC	<0.00086	<0.00096	<0.00096	<0.00087	<0.00088	<0.0011	<0.00088	<0.00083	<0.00079	<0.00085
1,2-Dichloropropane	NC	NC	<0.0012	<0.0014	<0.0014	<0.0013	<0.0013	<0.0016	<0.0013	<0.0012	<0.0011	<0.0012
cis-1,3-Dichloropropene	NC	NC	<0.00067	<0.00074	<0.00075	<0.00068	<0.00068	<0.00084	<0.00068	<0.00065	<0.00061	<0.00066
trans-1,3-Dichloropropene	NC	NC	<0.00067	<0.00074	<0.00075	<0.00068	<0.00068	<0.00084	<0.00068	<0.00065	<0.00061	<0.00066
Ethylbenzene	1	1	<0.00077	<0.00085	<0.00085	<0.00078	<0.00078	<0.00096	<0.00078	<0.00074	<0.00070	<0.00076
2-Hexanone (MBK)	NC	NC	<0.010	<0.012	<0.012	<0.011	<0.011	<0.013	<0.011	<0.010	<0.0096	<0.010
Isopropylbenzene	NC	2.3	<0.00067	<0.00074	<0.00075	<0.00068	<0.00068	<0.00084	<0.00068	<0.00065	<0.00061	<0.00066
Methyl acetate	NC	NC	<0.0015	<0.0017	<0.0017	<0.0016	<0.0016	<0.0019	<0.0016	<0.0015	<0.0014	<0.0015
Methyl tert-butyl ether	0.93	0.93	<0.00086	<0.00096	<0.00096	<0.00087	<0.00088	<0.0011	<0.00088	<0.00083	<0.00079	<0.00085
Methylcyclohexane	NC	NC	<0.00096	<0.0011	<0.0011	<0.00097	<0.00097	<0.0012	<0.00098	<0.00092	<0.00088	<0.00095
Methylene chloride	0.05	NC	<0.0068	<0.0076	<0.0076	<0.0069	<0.0069	<0.0085	<0.0069	<0.0066	<0.0062	<0.0067
4-Methyl-2-Pentanone	NC	NC	<0.0073	<0.0081	<0.0081	<0.0074	<0.0074	<0.0091	<0.0074	<0.0070	<0.0067	<0.0072
Styrene	NC	NC	<0.00058	<0.00064	<0.00064	<0.00058	<0.00058	<0.00072	<0.00059	<0.00055	<0.00053	<0.00057
1,1,2,2-Tetrachloroethane	NC	NC	<0.00086	<0.00096	<0.00096	<0.00087	<0.00088	<0.0011	<0.00088	<0.00083	<0.00079	<0.00085
Tetrachloroethene	1.3	NC	<0.0012	<0.0014	<0.0014	<0.0013	<0.0013	<0.0016	<0.0013	<0.0012	<0.0011	<0.0012
Toluene	0.7	0.7	<0.00077	<0.00085	<0.00085	<0.00078	<0.00078	<0.00096	<0.00078	<0.00074	<0.00070	<0.00076
1,2,3-Trichlorobenzene	NC	NC	<0.00058	<0.00064	<0.00064	<0.00058	<0.00058	<0.00072	<0.00059	<0.00055	<0.00053	<0.00057
1,2,4-Trichlorobenzene	NC	NC	<0.00077	<0.00085	<0.00085	<0.00078	<0.00078	<0.00096	<0.00078	<0.00074	<0.00070	<0.00076
1,1,1-Trichloroethane	0.68	NC	<0.00096	<0.0011	<0.0011	<0.00097	<0.00097	<0.0012	<0.00098	<0.00092	<0.00088	<0.00095
1,1,2-Trichloroethane	NC	NC	<0.0012	<0.0013	<0.0013	<0.0012	<0.0012	<0.0014	<0.0012	<0.0011	<0.0011	<0.0011
Trichloroethene	0.47	NC	<0.00096	<0.0011	<0.0011	<0.00097	<0.00097	<0.0012	<0.00098	<0.00092	<0.00088	<0.00095
Trichlorofluoromethane	NC	NC	<0.0011	<0.0012	<0.0012	<0.0011	<0.0011	<0.0013	<0.0011	<0.0010	<0.00097	<0.0010
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	NC	NC	<0.00086	<0.00096	<0.00096	<0.00087	<0.00088	<0.0011	<0.00088	<0.00083	<0.00079	<0.00085
Vinyl chloride	0.02	NC	<0.0011	<0.0012	<0.0012	<0.0011	<0.0011	<0.0013	<0.0011	<0.0010	<0.00097	<0.0010
m/p-Xylene	0.26(1)	0.26(2)	<0.0016	<0.0018	<0.0018	<0.0017	<0.0017	<0.0020	<0.0017	<0.0016	<0.0015	<0.0016
o-Xylene	0.26(1)	0.26(2)	<0.00067	<0.00074	<0.00075	<0.00068	<0.00068	<0.00084	<0.00068	<0.00065	<0.00061	<0.00066
Xylenes (Total)	NC	0.26	<0.0058	<0.0064	<0.0064	<0.0058	<0.0058	<0.0072	<0.0059	<0.0055	<0.0053	<0.0057
No TICs Found	NC	NC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Notes:
mg/kg - milligrams per kilogram
< - Less than detection limit
NC - No criterion
J - Estimated Value
SCO - Soil Cleanup Objective
SCL - Soil Cleanup Level for Gasoline Contaminated Soil based on NYSDEC Commissioner Policy
(1) - There is no SCO for m/p xylene or o-xylene. The SCO for total xylenes is 0.26 mg/kg.
(2) - There is no SCL for m/p xylene or o-xylene. The SCL for total xylenes is 0.26 mg/kg.

Table 3
Summary of Soil Sampling Analytical Results for
NYSDEC Commissioner Policy CP-51 Table 3 Compounds
Proposed Addition to Public School - 450Q
28-01 41st Avenue
Queens, New York

SAMPLE NAME		**TRC-UST-1**	**TRC-UST-2**
LAB SAMPLE ID		**16C0970-01**	**16C0970-02**
DILUTION FACTOR		**1**	**1**
DATE SAMPLE COLLECTED		**3/19/2016**	**3/19/2016**
VOLATILE ORGANIC COMPOUNDS (VOCs)	**SCL (mg/kg)**	**Result (mg/kg)**	**Result (mg/kg)**
Benzene	0.06	<0.00083	<0.00086
n-Butylbenzene	12	<0.00083	<0.00086
sec-Butylbenzene	11	<0.0012	<0.0012
Tert-Butylbenzene	5.9	<0.0011	<0.0011
Ethylbenzene	1	<0.00095	<0.00099
Isopropylbenzene	2.3	<0.00083	<0.00086
p-Isopropyltoluene (p-Cymene)	10	<0.00095	<0.00099
Naphthalene	12	<0.00083	<0.00086
n-Propylbenzene	3.9	<0.00083	<0.00086
Toluene	0.7	<0.00095	<0.00099
1,2,4-Trimethylbenzene	3.6	<0.00095	<0.00099
1,3,5-Trimethylbenzene	8.4	<0.00071	<0.00074
m/p-Xylene	0.26	<0.0020	<0.0021
o-Xylene	0.26	<0.00083	<0.00086
SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCs)	**SCL (mg/kg)**	**Result (mg/kg)**	**Result (mg/kg)**
Acenaphthene	20	<0.054	<0.061
Acenaphthylene	100	<0.060	<0.068
Anthracene	100	<0.052	<0.059
Benzo(a)anthracene	1	<0.048	<0.054
Benzo(a)pyrene	1	<0.056	<0.063
Benzo(b)fluoranthene	1	<0.051	<0.057
Benzo(g,h,i)perylene	100	<0.080	<0.090
Benzo(k)fluoranthene	0.8	<0.056	<0.063
Chrysene	1	<0.056	<0.063
Dibenz(a,h)anthracene	0.33	<0.11	<0.12
Fluoranthene	100	<0.059	<0.067
Fluorene	30	<0.058	<0.066
Indeno(1,2,3-cd)pyrene	0.5	<0.13	<0.15
Naphthalene	12	<0.092	<0.10
Phenanthrene	100	<0.093	<0.11
Pyrene	100	<0.059	<0.067

Notes:
mg/kg - milligrams per kilogram
< - Less than detection limit
NC - No criterion
SCL - Soil Cleanup Level for Fuel Oil Contaminated Soil based on NYSDEC Commissioner Policy CP-51

Table 4
Summary of Soil Sampling Analytical Results for
Semi-Volatile Organic Compounds plus Tentatively Identified Compounds
Proposed Addition to Public School - 450Q
28-01 41st Avenue
Queens, New York

SAMPLE NAME			DUP-1		TRC-SB-1 (1-3)		TRC-SB-1 (10-12)		TRC-SB-2 (1-3)		TRC-SB-2 (10-12)		TRC-SB-3 (1-3)		TRC-SB-3 (10-12)		TRC-SB-4 (1-3)		TRC-SB-4 (10-12)	
LAB SAMPLE ID			16C0970-21		16C0970-03		16C0970-04		16C0970-05		16C0970-06		16C0970-07		16C0970-08		16C0970-09		16C0970-10	
DILUTION FACTOR			1		1		1		1/2		1		1/5		1		1		1	
DATE SAMPLE COLLECTED			3/19/2016		3/19/2016		3/19/2016		3/19/2016		3/19/2016		3/20/2016		3/20/2016		3/19/2016		3/19/2016	
VOLATILE ORGANIC COMPOUNDS (VOCs)	Unrestricted Use SCO (mg/kg)	SCL (mg/kg)	Result (mg/kg)		Result (mg/kg)		Result (mg/kg)		Result (mg/kg)		Result (mg/kg)		Result (mg/kg)		Result (mg/kg)		Result (mg/kg)		Result (mg/kg)	
Atrazine	NC	NC	<0.61		<0.64		<0.58		<0.64		<0.65		<0.59		<0.60		<0.58		<0.62	
Benzaldehyde	NC	NC	<0.35		<0.37		<0.33		<0.37		<0.37		<0.34		<0.35		<0.33		<0.35	
Biphenyl	NC	NC	<0.46		<0.48		<0.44		<0.48		<0.49		<0.44		<0.45		<0.43		<0.47	
Caprolactam	NC	NC	<0.28		<0.29		<0.27		<0.29		<0.29		<0.27		<0.27		<0.26		<0.28	
Acenaphthene	20	20	<0.055		<0.058		<0.053		0.26		0.087	J	0.13	J	<0.055		<0.052		<0.056	
Acenaphthylene	100	100	<0.061		<0.065		<0.059		0.11	J	<0.065		0.37		<0.061		<0.058		<0.062	
Acetophenone	NC	NC	<0.072		<0.076		<0.069		<0.076		<0.077		<0.070		<0.072		<0.068		<0.073	
Anthracene	100	NC	<0.053		0.12	J	<0.051		0.59		0.17	J	0.43		<0.052		<0.050		<0.054	
Benzo(a)anthracene	1	1	<0.048		0.60		0.09	J	**1.9**		0.39		**1.8**		<0.048		<0.046		<0.049	
Benzo(a)pyrene	1	1	<0.057		0.53		0.081	J	**1.8**		0.34		**1.9**		<0.057		<0.054		<0.058	
Benzo(b)fluoranthene	1	1	0.052	J	0.77		0.099	J	**2.1**		0.42		**2.5**		<0.051		<0.049		<0.053	
Benzo(g,h,i)perylene	100	100	<0.081		0.37		<0.078		1		0.21		1.7		<0.080		<0.077		<0.082	
Benzo(k)fluoranthene	0.8	0.8	<0.057		0.25		<0.055		0.80		0.17	J	**0.89**		<0.057		<0.054		<0.058	
Bis(2-chloroethoxy)methane	NC	NC	<0.070		<0.074		<0.067		<0.074		<0.074		<0.068		<0.070		<0.066		<0.071	
Bis2-chloroethyl ether	NC	NC	<0.072		<0.076		<0.069		<0.076		<0.077		<0.070		<0.072		<0.068		<0.073	
Bis(2-chloroisopropyl)ether	NC	NC	<0.079		<0.083		<0.076		<0.083		<0.084		<0.076		<0.078		<0.075		<0.080	
bis(2-ethylhexyl)phthalate	NC	NC	<0.14		0.15	J	<0.14		0.2	J	0.22	J	0.18	J	0.19	J	0.16	J	0.22	J
4-Bromophenylphenylether	NC	NC	<0.061		<0.065		<0.059		<0.064		<0.065		<0.059		<0.061		<0.058		<0.062	
Butyl benzyl phthalate	NC	NC	<0.087		<0.092		<0.084		<0.092		<0.093		<0.084		<0.087		<0.083		<0.089	
Carbazole	NC	NC	<0.047		0.054	J	<0.046		0.26		<0.050		0.27		<0.047		<0.045		<0.048	
4-Chloroaniline	NC	NC	<0.084		<0.089		<0.081		<0.088		<0.089		<0.081		<0.083		<0.080		<0.086	
4-Chloro-3-methylpheno	NC	NC	<0.079		<0.083		<0.076		<0.083		<0.084		<0.076		<0.078		<0.075		<0.080	
2-Chloronaphthalene	NC	NC	<0.069		<0.073		<0.066		<0.072		<0.073		<0.067		<0.068		<0.065		<0.070	
2-Chlorophenol	NC	NC	<0.066		<0.069		<0.063		<0.069		<0.070		<0.064		<0.065		<0.062		<0.067	
4-Chlorophenylphenylether	NC	NC	<0.061		<0.065		<0.059		<0.064		<0.065		<0.059		<0.061		<0.058		<0.062	
Chrysene	1	1	<0.057		0.65		0.091	J	**1.7**		0.43		**1.8**		<0.057		<0.054		<0.058	
Dibenz(a,h)anthracene	0.33	0.33	<0.11		<0.12		<0.11		0.22		<0.12		0.29		<0.11		<0.11		<0.11	
Dibenzofuran	7	NC	<0.064		<0.067		<0.061		0.14	J	0.069	J	0.17	J	<0.063		<0.060		<0.065	
Di-n-butyl phthalate	NC	NC	<0.080		<0.084		<0.077		<0.084		<0.085		<0.077		<0.079		<0.076		<0.081	
3,3'-Dichlorobenzidine	NC	NC	<0.056		<0.059		<0.054		<0.059		<0.059		<0.054		<0.056		<0.053		<0.057	
2,4-Dichlorophenol	NC	NC	<0.062		<0.066		<0.060		<0.066		<0.066		<0.060		<0.062		<0.059		<0.064	
Diethylphthalate	NC	NC	<0.066		<0.069		<0.063		<0.069		<0.070		<0.064		<0.065		<0.062		<0.067	
2,4-Dimethylphenol	NC	NC	<0.068		<0.072		<0.065		<0.071		<0.072		<0.066		<0.067		<0.064		<0.069	
Dimethyl phthalate	NC	NC	<0.065		<0.068		<0.062		<0.068		<0.069		<0.063		<0.064		<0.061		<0.066	
4,6-Dinitro-2-methylpheno	NC	NC	<0.35		<0.37		<0.33		<0.37		<0.37		<0.34		<0.35		<0.33		<0.35	
2,4-Dinitrophenol	NC	NC	<0.21		<0.22		<0.20		<0.22		<0.22		<0.20		<0.21		<0.20		<0.21	
2,4-Dinitrotoluene	NC	NC	<0.059		<0.062		<0.057		<0.062		<0.063		<0.057		<0.059		<0.056		<0.060	
2,6-Dinitrotoluene	NC	NC	<0.065		<0.068		<0.062		<0.068		<0.069		<0.063		<0.064		<0.061		<0.066	
Di-n-octyl phthalate	NC	NC	<0.19		<0.20		<0.18		<0.20		<0.20		<0.19		<0.19		<0.18		<0.20	
Fluoranthene	100	100	0.094	J	1.1		0.19		3.8		0.83		3.0		<0.060		<0.057		<0.061	
Fluorene	30	30	<0.059		<0.062		<0.057		0.19	J	0.11	J	0.22		<0.059		<0.056		<0.060	
Hexachlorobenzene	0.33	NC	<0.065		<0.068		<0.062		<0.068		<0.069		<0.063		<0.064		<0.061		<0.066	
Hexachlorobutadiene	NC	NC	<0.065		<0.068		<0.062		<0.068		<0.069		<0.063		<0.064		<0.061		<0.066	
Hexachlorocyclopentadiene	NC	NC	<0.078		<0.082		<0.075		<0.081		<0.082		<0.075		<0.077		<0.074		<0.079	
Hexachloroethane	NC	NC	<0.073		<0.077		<0.070		<0.077		<0.078		<0.071		<0.073		<0.069		<0.075	
Indeno(1,2,3-cd)pyrene	0.5	0.5	<0.13		0.38		<0.13		**1**		0.2		**1.5**		<0.13		<0.12		<0.13	
Isophorone	NC	NC	<0.071		<0.075		<0.068		<0.075		<0.076		<0.069		<0.071		<0.067		<0.072	
2-Methylnaphthalene	NC	NC	<0.064		<0.067		<0.061		<0.067		<0.068		0.12	J	<0.063		<0.060		<0.065	
o-Cresol (2-Methylphenol)	0.33	NC	<0.091		<0.097		<0.088		<0.096		<0.097		<0.089		<0.091		<0.087		<0.093	
3/4-Methylphenol	0.33	NC	<0.12		<0.12		<0.11		<0.12		<0.12		<0.11		<0.12		<0.11		<0.12	
Naphthalene	12	12	<0.094		0.17	J	<0.090		0.1	J	0.16	J	0.20		<0.093		<0.089		<0.095	
2-Nitroaniline	NC	NC	<0.061		<0.065		<0.059		<0.064		<0.065		<0.059		<0.061		<0.058		<0.062	
3-Nitroaniline	NC	NC	<0.053		<0.056		<0.051		<0.055		<0.056		<0.051		<0.052		<0.050		<0.054	
4-Nitroaniline	NC	NC	<0.061		<0.065		<0.059		<0.13		<0.065		<0.30		<0.061		<0.058		<0.062	
Nitrobenzene	NC	NC	<0.069		<0.073		<0.066		<0.072		<0.073		<0.067		<0.068		<0.065		<0.070	
2-Nitrophenol	NC	NC	<0.097		<0.10		<0.093		<0.10		<0.10		<0.094		<0.096		<0.092		<0.099	
4-Nitrophenol	NC	NC	<0.080		<0.084		<0.077		<0.084		<0.085		<0.077		<0.079		<0.076		<0.081	
N-Nitrosodiphenylamine	NC	NC	<0.075		<0.080		<0.072		<0.079		<0.080		<0.073		<0.075		<0.072		<0.077	
N-Nitrosodi-n-propylamine	NC	NC	<0.075		<0.080		<0.072		<0.079		<0.080		<0.073		<0.075		<0.072		<0.077	
Pentachlorophenol	0.8	NC	<0.088		<0.093		<0.085		<0.093		<0.094		<0.086		<0.088		<0.084		<0.090	
Phenanthrene	100	100	<0.095		0.87		0.17	J	3.6		0.85		3.1		<0.094		<0.090		<0.096	
Phenol	0.33	NC	<0.062		<0.066		<0.060		<0.066		<0.066		<0.060		<0.062		<0.059		<0.064	
Pyrene	100	100	0.088	J	1.2		0.24		4.3		1.2		3.8		<0.060		<0.057		<0.061	
1,2,4,5-Tetrachlorobenzene	NC	NC	<0.066		<0.069		<0.063		<0.069		<0.070		<0.064		<0.065		<0.062		<0.067	
2,4,5-Trichlorophenol	NC	NC	<0.083		<0.088		<0.080		<0.087		<0.088		<0.080		<0.082		<0.079		<0.084	
2,4,6-Trichlorophenol	NC	NC	<0.061		<0.065		<0.059		<0.064		<0.065		<0.059		<0.061		<0.058		<0.062	
11H-Benzo[a]fluoren-11-one	NC	NC	ND		ND		ND		ND		ND		0.18		ND		ND		ND	
11H-Benzo[b]fluorene	NC	NC	ND		ND		ND		0.34		ND		ND		ND		ND		ND	
7H-Benz[de]anthracen-7-one	NC	NC	ND		ND		ND		ND		ND		0.21		ND		ND		ND	
9,10-Anthracenedione	NC	NC	ND		ND		ND		ND		ND		0.42		ND		ND		ND	
Benz[a]anthracene, 7-methyl-	NC	NC	ND		ND		ND		ND		ND		0.17		ND		ND		ND	
Benzaldehyde, 3,5-dichloro-...	NC	NC	ND		ND		ND		0.60		ND		ND		ND		ND		ND	
Benzenamine, 2-ethyl-N-(4,4...	NC	NC	ND		ND		ND		ND		ND		0.16		ND		ND		ND	
Benzo[b]naphtho[2,1-d]thiop...	NC	NC	ND		ND		ND		ND		ND		ND		ND		ND		ND	
Benzo[e]pyrene	NC	NC	ND		ND		ND		1.2		ND		0.73		ND		ND		ND	
Dibenz(a,e)aceanthrylene	NC	NC	ND		ND		ND		ND		ND		0.88		ND		ND		ND	
n-Hexadecanoic acid	NC	NC	ND		10		ND		ND		ND		ND		ND		ND		ND	
Phenanthrene, 1-methyl-	NC	NC	ND		ND		ND		0.40		ND		0.53		ND		ND		ND	
Phenanthrene, 2-methyl-	NC	NC	ND		ND		ND		0.49		ND		0.41		ND		ND		ND	
Pyrene, 1-methyl-	NC	NC	ND		ND		ND		ND		ND		0.39		ND		ND		ND	
Pyrene, 2-methyl-	NC	NC	ND		ND		ND		0.25		ND		0.22		ND		ND		ND	

Notes:
mg/kg - milligrams per kilogram
< - Less than detection limit
NC - No criterion
ND - Compound not detected
J - Estimated Value
SCO - Soil Cleanup Objective
SCL - Soil Cleanup Level for Gasoline Contaminated Soil based on NYSDEC Commissioner Policy CP-51.
Light gray shade with black bolded text values exceed SCL for Gasoline Contaminated Soil based on NYSDEC Commissioner Policy CP-51 and/or Unrestricted Use SCOs

Table 4
Summary of Soil Sampling Analytical Results for
Semi-Volatile Organic Compounds plus Tentatively Identified Compounds
Proposed Addition to Public School - 450Q
28-01 41st Avenue
Queens, New York

SAMPLE NAME			TRC-SB-5 (1-3)		TRC-SB-5 (10-12)		TRC-SB-6 (1-3)		TRC-SB-6 (10-12)		TRC-SB-7 (1-3)		TRC-SB-7 (10-12)		TRC-SB-8 (1-3)		TRC-SB-8 (10-12)		TRC-SB-9 (1-3)		TRC-SB-9 (10-12)	
LAB SAMPLE ID			16C0970-11		16C0970-12		16C0970-13		16C0970-14		16C0970-15		16C0970-16		16C0970-17		16C0970-18		16C0970-19		16C0970-20	
DILUTION FACTOR			1		1		1		1		1/5		1		1		1		1		1	
DATE SAMPLE COLLECTED			3/20/2016		3/20/2016		3/19/2016		3/19/2016		3/19/2016		3/19/2016		3/20/2016		3/20/2016		3/20/2016		3/20/2016	
VOLATILE ORGANIC COMPOUNDS (VOCs)	Unrestricted Use SCO (mg/kg)	SCL (mg/kg)	Result (mg/kg)		Result (mg/kg)		Result (mg/kg)		Result (mg/kg)		Result (mg/kg)		Result (mg/kg)		Result (mg/kg)		Result (mg/kg)		Result (mg/kg)		Result (mg/kg)	
Atrazine	NC	NC	<0.59		<0.60		<0.60		<0.60		<0.63		<0.62		<0.60		<0.58		<0.62		<0.64	
Benzaldehyde	NC	NC	<0.34		<0.34		<0.34		<0.34		<0.36		<0.35		<0.34		<0.33		<0.35		<0.37	
Biphenyl	NC	NC	<0.44		<0.45		<0.45		<0.45		<0.48		<0.46		<0.45		<0.44		<0.47		<0.48	
Caprolactam	NC	NC	<0.27		<0.27		<0.27		<0.27		<0.29		<0.28		<0.27		<0.26		<0.28		<0.29	
Acenaphthene	20	20	<0.053		<0.054		<0.054		<0.054		0.92		<0.056		0.09	J	<0.053		<0.056		0.12	J
Acenaphthylene	100	100	<0.059		<0.061		<0.061		<0.061		0.19		<0.062		<0.061		<0.059		<0.063		<0.065	
Acetophenone	NC	NC	<0.070		<0.071		<0.071		<0.071		<0.075		<0.073		<0.071		<0.069		<0.074		<0.076	
Anthracene	100	NC	<0.051		<0.052		<0.052		<0.052		2.5		<0.053		0.21		<0.050		<0.054		0.25	
Benzo(a)anthracene	1	1	<0.047		<0.048		<0.048		<0.048		**5.7**		<0.049		0.94		<0.046		<0.049		0.48	
Benzo(a)pyrene	1	1	<0.055		<0.056		<0.056		<0.056		**4.9**		<0.058		0.91		<0.055		<0.058		0.41	
Benzo(b)fluoranthene	1	1	<0.050		<0.051		<0.051		<0.051		**6.0**		<0.052		**1.1**		<0.049		<0.053		0.47	
Benzo(g,h,i)perylene	100	100	<0.078		<0.080		<0.080		<0.080		3.2		<0.082		0.53		<0.077		<0.082		0.21	
Benzo(k)fluoranthene	0.8	0.8	<0.055		<0.056		<0.056		<0.056		**2.7**		<0.058		0.37		<0.055		<0.058		0.20	
Bis(2-chloroethoxy)methane	NC	NC	<0.067		<0.069		<0.069		<0.069		<0.073		<0.071		<0.069		<0.067		<0.071		<0.074	
Bis2-chloroethyl ether	NC	NC	<0.070		<0.071		<0.071		<0.071		<0.075		<0.073		<0.071		<0.069		<0.074		<0.076	
Bis(2-chloroisopropyl)ether	NC	NC	<0.076		<0.077		<0.078		<0.078		<0.082		<0.080		<0.078		<0.075		<0.080		<0.083	
bis(2-ethylhexyl)phthalate	NC	NC	0.2	J	0.14	J	<0.14		0.15	J	<0.15		0.17	J	0.2	J	0.15	J	<0.14		0.18	J
4-Bromophenylphenylether	NC	NC	<0.059		<0.061		<0.061		<0.061		<0.064		<0.062		<0.061		<0.059		<0.063		<0.065	
Butyl benzyl phthalate	NC	NC	<0.084		<0.086		<0.086		<0.086		<0.091		<0.088		<0.086		<0.083		<0.089		<0.092	
Carbazole	NC	NC	<0.046		<0.047		<0.047		<0.047		0.83		<0.048		0.094	J	<0.045		<0.048		0.11	J
4-Chloroaniline	NC	NC	<0.081		<0.083		<0.083		<0.083		<0.087		<0.085		<0.083		<0.080		<0.086		<0.089	
4-Chloro-3-methylpheno	NC	NC	<0.076		<0.077		<0.078		<0.078		<0.082		<0.080		<0.078		<0.075		<0.080		<0.083	
2-Chloronaphthalene	NC	NC	<0.066		<0.068		<0.068		<0.068		<0.072		<0.070		<0.068		<0.066		<0.070		<0.073	
2-Chlorophenol	NC	NC	<0.063		<0.065		<0.065		<0.065		<0.068		<0.066		<0.065		<0.063		<0.067		<0.070	
4-Chlorophenylphenylether	NC	NC	<0.059		<0.061		<0.061		<0.061		<0.064		<0.062		<0.061		<0.059		<0.063		<0.065	
Chrysene	1	1	<0.055		<0.056		<0.056		<0.056		**5.3**		<0.058		0.91		<0.055		<0.058		0.40	
Dibenz(a,h)anthracene	0.33	0.33	<0.11		<0.11		<0.11		<0.11		**0.69**		<0.11		0.13	J	<0.11		<0.11		<0.12	
Dibenzofuran	7	NC	<0.061		<0.063		<0.063		<0.063		0.64		<0.064		<0.063		<0.061		<0.065		0.11	J
Di-n-butyl phthalate	NC	NC	<0.077		<0.079		<0.079		<0.079		<0.083		<0.081		<0.079		<0.076		<0.081		<0.084	
3,3'-Dichlorobenzidine	NC	NC	<0.054		<0.055		<0.055		<0.055		<0.058		<0.057		<0.055		<0.054		<0.057		<0.059	
2,4-Dichlorophenol	NC	NC	<0.060		<0.062		<0.062		<0.062		<0.065		<0.063		<0.062		<0.060		<0.064		<0.066	
Diethylphthalate	NC	NC	<0.063		<0.065		<0.065		<0.065		<0.068		<0.066		<0.065		<0.063		<0.067		<0.070	
2,4-Dimethylphenol	NC	NC	<0.065		<0.067		<0.067		<0.067		<0.070		<0.069		<0.067		<0.065		<0.069		<0.072	
Dimethyl phthalate	NC	NC	<0.062		<0.064		<0.064		<0.064		<0.067		<0.065		<0.064		<0.062		<0.066		<0.068	
4,6-Dinitro-2-methylpheno	NC	NC	<0.34		<0.34		<0.34		<0.34		<0.36		<0.35		<0.34		<0.33		<0.35		<0.37	
2,4-Dinitrophenol	NC	NC	<0.20		<0.21		<0.21		<0.21		<0.22		<0.21		<0.21		<0.20		<0.21		<0.22	
2,4-Dinitrotoluene	NC	NC	<0.057		<0.058		<0.058		<0.058		<0.062		<0.060		<0.058		<0.057		<0.060		<0.063	
2,6-Dinitrotoluene	NC	NC	<0.062		<0.064		<0.064		<0.064		<0.067		<0.065		<0.064		<0.062		<0.066		<0.068	
Di-n-octyl phthalate	NC	NC	<0.18		<0.19		<0.19		<0.19		<0.20		<0.19		<0.19		<0.18		<0.20		<0.20	
Fluoranthene	100	100	<0.058		<0.059		<0.060		0.063	J	13		<0.061		2.0		<0.058		<0.061		0.91	
Fluorene	30	30	<0.057		<0.058		<0.058		<0.058		0.92		<0.060		0.072	J	<0.057		<0.060		0.13	J
Hexachlorobenzene	0.33	NC	<0.062		<0.064		<0.064		<0.064		<0.067		<0.065		<0.064		<0.062		<0.066		<0.068	
Hexachlorobutadiene	NC	NC	<0.062		<0.064		<0.064		<0.064		<0.067		<0.065		<0.064		<0.062		<0.066		<0.068	
Hexachlorocyclopentadiene	NC	NC	<0.075		<0.076		<0.077		<0.077		<0.081		<0.078		<0.077		<0.074		<0.079		<0.082	
Hexachloroethane	NC	NC	<0.071		<0.072		<0.072		<0.072		<0.076		<0.074		<0.072		<0.070		<0.075		<0.078	
Indeno(1,2,3-cd)pyrene	0.5	0.5	<0.13		<0.13		<0.13		<0.13		**3.2**		<0.13		**0.55**		<0.13		<0.13		0.22	
Isophorone	NC	NC	<0.069		<0.070		<0.070		<0.070		<0.074		<0.072		<0.070		<0.068		<0.072		<0.075	
2-Methylnaphthalene	NC	NC	<0.061		<0.063		<0.063		<0.063		0.32		<0.064		<0.063		<0.061		<0.065		0.087	J
o-Cresol (2-Methylphenol)	0.33	NC	<0.088		<0.090		<0.090		<0.090		<0.095		<0.093		<0.090		<0.088		<0.093		<0.097	
3/4-Methylphenol	0.33	NC	<0.11		<0.11		<0.11		<0.11		<0.12		<0.12		<0.11		<0.11		<0.12		<0.12	
Naphthalene	12	12	<0.090		<0.092		<0.092		<0.092		0.50		<0.095		<0.092		<0.090		<0.095		0.17	J
2-Nitroaniline	NC	NC	<0.059		<0.061		<0.061		<0.061		<0.064		<0.062		<0.061		<0.059		<0.063		<0.065	
3-Nitroaniline	NC	NC	<0.051		<0.052		<0.052		<0.052		<0.055		<0.053		<0.052		<0.050		<0.054		<0.056	
4-Nitroaniline	NC	NC	<0.059		<0.061		<0.061		<0.061		<0.32		<0.062		<0.061		<0.059		<0.063		<0.065	
Nitrobenzene	NC	NC	<0.066		<0.068		<0.068		<0.068		<0.072		<0.070		<0.068		<0.066		<0.070		<0.073	
2-Nitrophenol	NC	NC	<0.093		<0.096		<0.096		<0.096		<0.10		<0.098		<0.096		<0.093		<0.099		<0.10	
4-Nitrophenol	NC	NC	<0.077		<0.079		<0.079		<0.079		<0.083		<0.081		<0.079		<0.076		<0.081		<0.084	
N-Nitrosodiphenylamine	NC	NC	<0.073		<0.074		<0.074		<0.074		<0.078		<0.076		<0.074		<0.072		<0.077		<0.080	
N-Nitrosodi-n-propylamine	NC	NC	<0.073		<0.074		<0.074		<0.074		<0.078		<0.076		<0.074		<0.072		<0.077		<0.080	
Pentachlorophenol	0.8	NC	<0.085		<0.087		<0.087		<0.087		<0.092		<0.089		<0.087		<0.084		<0.090		<0.094	
Phenanthrene	100	100	<0.091		<0.093		<0.094		<0.094		12		<0.096		1.2		<0.091		<0.097		0.94	
Phenol	0.33	NC	<0.060		<0.062		<0.062		<0.062		<0.065		<0.063		<0.062		<0.060		<0.064		<0.066	
Pyrene	100	100	<0.058		<0.059		<0.060		0.062	J	13		<0.061		2.4		<0.058		<0.061		1.0	
1,2,4,5-Tetrachlorobenzene	NC	NC	<0.063		<0.065		<0.065		<0.065		<0.068		<0.066		<0.065		<0.063		<0.067		<0.070	
2,4,5-Trichlorophenol	NC	NC	<0.080		<0.082		<0.082		<0.082		<0.086		<0.084		<0.082		<0.079		<0.085		<0.088	
2,4,6-Trichlorophenol	NC	NC	<0.059		<0.061		<0.061		<0.061		<0.064		<0.062		<0.061		<0.059		<0.063		<0.065	
11H-Benzo[a]fluoren-11-one	NC	NC	ND		ND		ND		ND		0.22		ND		ND		ND		ND		ND	
11H-Benzo[b]fluorene	NC	NC	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
7H-Benz[de]anthracen-7-one	NC	NC	ND		ND		ND		ND		0.26		ND		ND		ND		ND		ND	
9,10-Anthracenedione	NC	NC	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Benz[a]anthracene, 7-methyl-	NC	NC	ND		ND		ND		ND		0.22		ND		ND		ND		ND		ND	
Benzaldehyde, 3,5-dichloro-…	NC	NC	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Benzenamine, 2-ethyl-N-(4,4…	NC	NC	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Benzo[b]naphtho[2,1-d]thiop…	NC	NC	ND		ND		ND		ND		0.23		ND		ND		ND		ND		ND	
Benzo[e]pyrene	NC	NC	ND		ND		ND		ND		0.99		ND		0.64		ND		ND		ND	
Dibenz(a,e)aceanthrylene	NC	NC	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
n-Hexadecanoic acid	NC	NC	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Phenanthrene, 1-methyl-	NC	NC	ND		ND		ND		ND		0.20		ND		ND		ND		ND		ND	
Phenanthrene, 2-methyl-	NC	NC	ND		ND		ND		ND		0.17		ND		ND		ND		ND		ND	
Pyrene, 1-methyl-	NC	NC	ND		ND		ND		ND		0.26		ND		ND		ND		ND		ND	
Pyrene, 2-methyl-	NC	NC	ND		ND		ND		ND		0.31		ND		ND		ND		ND		ND	

Notes:
mg/kg - milligrams per kilogram
< - Less than detection limit
NC - No criterion
ND - Compound not detected
J - Estimated Value
SCO - Soil Cleanup Objective
SCL - Soil Cleanup Level for Gasoline Contaminated Soil based on NYSDEC Commissioner Policy CP-51.
Light gray shade with black bolded text values exceed SCL for Gasoline Contaminated Soil based on NYSDEC Commissioner Policy CP-51 and/or Unrestricted Use SCOs

Table 5
Summary of Soil Sampling Analytical Results for
Metals including Cyanide and Hexavalent Chromium
Proposed Addition to Public School - 450Q
28-01 41st Avenue
Queens, New York

SAMPLE NAME		**DUP-1**		**TRC-SB-1 (1-3)**		**TRC-SB-1 (10-12)**		**TRC-SB-2 (1-3)**		**TRC-SB-2 (10-12)**		**TRC-SB-3 (1-3)**		**TRC-SB-3 (10-12)**		**TRC-SB-4 (1-3)**		**TRC-SB-4 (10-12)**		**TRC-SB-5 (1-3)**	
LAB SAMPLE ID		**16C0970-21**		**16C0970-03**		**16C0970-04**		**16C0970-05**		**16C0970-06**		**16C0970-07**		**16C0970-08**		**16C0970-09**		**16C0970-10**		**16C0970-11**	
DILUTION FACTOR		**1**		**1/5**		**1**		**1/5**		**1**		**1/5**		**1**		**1**		**1**		**1**	
DATE SAMPLE COLLECTED		**3/19/2016**		**3/19/2016**		**3/19/2016**		**3/19/2016**		**3/19/2016**		**3/20/2016**		**3/20/2016**		**3/19/2016**		**3/19/2016**		**3/20/2016**	
METALS	**Unrestricted Use SCO (mg/kg)**	**Result (mg/kg)**		**Result (mg/kg)**		**Result (mg/kg)**		**Result (mg/kg)**		**Result (mg/kg)**		**Result (mg/kg)**		**Result (mg/kg)**		**Result (mg/kg)**		**Result (mg/kg)**		**Result (mg/kg)**	
Antimony	NC	2	J	<1.0		<0.89		<1.0		<1.1		<0.94		<0.95		<0.92		<0.98		<0.91	
Arsenic	13	<0.49		**44**		2.3	J	8.4		1.6	J	0.94	J	0.99	J	1.1	J	1.6	J	1.1	J
Barium	350	39		**3,300**		**970**		**3,300**		55		81		29		18		73		27	
Beryllium	7.2	<0.21		0.74		0.51		0.75		0.76		0.53		0.38		0.45		0.75		0.42	
Cadmium	2.5	<0.12		**3.0**		0.43		1.7		0.35		0.30		0.21	J	0.19	J	0.34		0.22	J
Chromium	30	14		25		11		36		20		8.0		10		9.2		17		12	
Cobalt	NC	6.2		11		4.2		5.5		7.4		3.6		3.7		3.6		7.6		3.4	
Copper	50	13		**91**		18		42		19		23		11		12		18		9.1	
Lead	63	3.9		**17,000**		**1,300**		**9,900**		13		**72**		3.9		6.5		5.4		4.8	
Manganese	1,600	250		450		310		250		510		170		220		190		310		200	
Nickel	30	11		20		9.7		11		15		6.7		7.9		6.8		14		8.5	
Selenium	4	<5.3		<5.6		<4.8		<5.5		<5.7		<5.0		<5.1		<4.9		<5.3		<4.9	
Silver	2	<0.42		<0.44		<0.38		0.45	J	<0.45		<0.40		<0.40		<0.39		<0.42		<0.39	
Thallium	NC	<1.7		<1.8		<1.6		<1.8		<1.8		<1.6		<1.7		<1.6		<1.7		<1.6	
Vanadium	NC	21		25		13		21		27		12		10		14		23		14	
Zinc	109	34		**970**		62		**670**		42		64		17		19		43		26	
Mercury	0.18	0.0067	J	**0.24**		0.052		**0.72**		0.0092	J	**0.85**		0.0059	J	0.066		0.0082	J	0.013	J
Chromium, hexavalent	1	NA		NA		<0.12		<0.27		NA		NA		NA		NA		NA		NA	
Cyanide, Total	27	NA		NA		<0.20		<0.21		NA		NA		NA		NA		NA		NA	

Notes:
mg/kg - milligrams per kilogram
< - Less than detection limit
NC - No criterion
J - Estimated Value
Light gray shade with black bolded text values exceed Unrestricted Use SCOs

Table 5
Summary of Soil Sampling Analytical Results for
Metals including Cyanide and Hexavalent Chromium
Proposed Addition to Public School - 450Q
28-01 41st Avenue
Queens, New York

SAMPLE NAME		**TRC-SB-5 (10-12)**		**TRC-SB-6 (1-3)**		**TRC-SB-6 (10-12)**		**TRC-SB-7 (1-3)**		**TRC-SB-7 (10-12)**		**TRC-SB-8 (1-3)**		**TRC-SB-8 (10-12)**		**TRC-SB-9 (1-3)**		**TRC-SB-9 (10-12)**	
LAB SAMPLE ID		**16C0970-12**		**16C0970-13**		**16C0970-14**		**16C0970-15**		**16C0970-16**		**16C0970-17**		**16C0970-18**		**16C0970-19**		**16C0970-20**	
DILUTION FACTOR		**1**		**1**		**1**		**1/5**		**1**		**1/5**		**1**		**1**		**1**	
DATE SAMPLE COLLECTED		**3/20/2016**		**3/19/2016**		**3/19/2016**		**3/19/2016**		**3/19/2016**		**3/20/2016**		**3/20/2016**		**3/20/2016**		**3/20/2016**	
METALS	**Unrestricted Use SCO (mg/kg)**	**Result (mg/kg)**		**Result (mg/kg)**		**Result (mg/kg)**		**Result (mg/kg)**		**Result (mg/kg)**		**Result (mg/kg)**		**Result (mg/kg)**		**Result (mg/kg)**		**Result (mg/kg)**	
Antimony	NC	<0.91		<1.0		<0.96		<1.0		<0.98		<0.93		<0.90		<0.98		<1.0	
Arsenic	13	1.7	J	0.78	J	8.5		<0.50		1.3	J	2.9		0.77	J	6.8		1.5	J
Barium	350	34		27		320		25		32		76		20		77		21	
Beryllium	7.2	0.51		0.36		0.91		0.37		0.47		0.54		0.31		0.69		0.52	
Cadmium	2.5	0.26		0.17	J	0.79		0.19	J	0.26		0.43		0.16	J	0.94		0.23	J
Chromium	30	11		8.6		33		12		12		15		6.3		16		10	
Cobalt	NC	5.9		3.3		6.3		3.4		5.8		4.6		2.9		7.7		5.1	
Copper	50	15		8.0		**83**		7.4		13		25		9.2		**62**		13	
Lead	63	4.1		2.4		**830**		2.5		3.3		**110**		2.4		**75**		5.2	
Manganese	1,600	280		220		320		210		290		270		250		300		250	
Nickel	30	11		8.1		12		7.1		12		9.0		7.1		14		15	
Selenium	4	<4.9		<5.4		<5.2		<5.4		<5.3		<5.0		<4.8		<5.3		<5.5	
Silver	2	<0.39		<0.43		<0.41		<0.43		<0.42		<0.39		<0.38		<0.42		<0.43	
Thallium	NC	<1.6		<1.8		<1.7		<1.8		<1.7		<1.6		<1.6		<1.7		<1.8	
Vanadium	NC	16		8.7		25		11		15		15		7.2		23		13	
Zinc	109	32		12		**260**		12		28		88		14		**120**		22	
Mercury	0.18	0.0064	J	**0.21**		0.0062	J	**0.99**		0.012	J	**0.74**		<0.0042		0.10		0.011	J
Chromium, hexavalent	1	<0.13		<0.12		NA		NA		<0.13		NA		NA		NA		NA	
Cyanide, Total	27	<0.24		0.26	J	NA		NA		<0.25		NA		NA		NA		NA	

Notes:
mg/kg - milligrams per kilogram
< - Less than detection limit
NC - No criterion
J - Estimated Value
Light gray shade with black bolded text values exceed Unrestricted Use SCOs

Table 6
Summary of Soil Sampling Analytical Results for
Polychlorinated Biphenyls
Proposed Addtion to Public School - 450Q
28-01 41st Avenue
Queens, New York

SAMPLE NAME		**DUP-1**	**TRC-SB-1 (1-3)**	**TRC-SB-1 (10-12)**	**TRC-SB-2 (1-3)**	**TRC-SB-2 (10-12)**	**TRC-SB-3 (1-3)**	**TRC-SB-3 (10-12)**	**TRC-SB-4 (1-3)**	**TRC-SB-4 (10-12)**
LAB SAMPLE ID		**16C0970-21**	**16C0970-03**	**16C0970-04**	**16C0970-05**	**16C0970-06**	**16C0970-07**	**16C0970-08**	**16C0970-09**	**16C0970-10**
DILUTION FACTOR		**1**	**5**	**5**	**5**	**5**	**5**	**5**	**5**	**5**
DATE SAMPLE COLLECTED		**3/19/2016**	**3/19/2016**	**3/19/2016**	**3/19/2016**	**3/19/2016**	**3/20/2016**	**3/20/2016**	**3/19/2016**	**3/19/2016**
POLYCHLORINATED BIPHENYLS (PCBs)	**Unrestricted Use SCO (mg/kg)**	**Result (mg/kg)**	**Result (mg/kg)**	**Result (mg/kg)**	**Result (mg/kg)**	**Result (mg/kg)**	**Result (mg/kg)**	**Result (mg/kg)**	**Result (mg/kg)**	**Result (mg/kg)**
Aroclor 1016	NC	<0.065	<0.068	<0.062	<0.068	<0.069	<0.063	<0.064	<0.061	<0.066
Aroclor 1221	NC	<0.070	<0.074	<0.067	<0.074	<0.074	<0.068	<0.070	<0.066	<0.071
Aroclor 1232	NC	<0.048	<0.051	<0.047	<0.051	<0.051	<0.047	<0.048	<0.046	<0.049
Aroclor 1242	NC	<0.054	<0.057	<0.052	<0.057	<0.057	<0.052	<0.053	<0.051	<0.055
Aroclor 1248	NC	<0.065	<0.068	<0.062	<0.068	<0.069	<0.063	<0.064	<0.061	<0.066
Aroclor 1254	NC	<0.070	<0.074	<0.067	<0.074	<0.074	<0.068	<0.070	<0.066	<0.071
Aroclor 1260	NC	<0.075	<0.080	<0.072	<0.079	<0.080	<0.073	<0.075	<0.072	<0.077
Aroclor 1262	NC	<0.054	<0.057	<0.052	<0.057	<0.057	<0.052	<0.053	<0.051	<0.055
Aroclor 1268	NC	<0.043	<0.045	<0.041	<0.045	<0.046	<0.042	<0.043	<0.041	<0.044

Notes:
mg/kg - milligrams per kilogram
< - Less than detection limit
NC - No criterion

Table 6
Summary of Soil Sampling Analytical Results for
Polychlorinated Biphenyls
Proposed Addtion to Public School - 450Q
28-01 41st Avenue
Queens, New York

SAMPLE NAME **LAB SAMPLE ID** **DILUTION FACTOR** **DATE SAMPLE COLLECTED**		**TRC-SB-5 (1-3)** **16C0970-11** **5** **3/20/2016**	**TRC-SB-5 (10-12)** **16C0970-12** **5** **3/20/2016**	**TRC-SB-6 (1-3)** **16C0970-13** **5** **3/19/2016**	**TRC-SB-6 (10-12)** **16C0970-14** **5** **3/19/2016**	**TRC-SB-7 (1-3)** **16C0970-15** **5** **3/19/2016**	**TRC-SB-7 (10-12)** **16C0970-16** **5** **3/19/2016**	**TRC-SB-8 (1-3)** **16C0970-17** **5** **3/20/2016**	**TRC-SB-8 (10-12)** **16C0970-18** **5** **3/20/2016**	**TRC-SB-9 (1-3)** **16C0970-19** **5** **3/20/2016**	**TRC-SB-9 (10-12)** **16C0970-20** **5** **3/20/2016**
POLYCHLORINATED BIPHENYLS (PCBs)	**Unrestricted Use SCO (mg/kg)**	**Result (mg/kg)**	**Result (mg/kg)**	**Result (mg/kg)**	**Result (mg/kg)**	**Result (mg/kg)**	**Result (mg/kg)**	**Result (mg/kg)**	**Result (mg/kg)**	**Result (mg/kg)**	**Result (mg/kg)**
Aroclor 1016	NC	<0.062	<0.064	<0.064	<0.064	<0.067	<0.065	<0.064	<0.062	<0.066	<0.068
Aroclor 1221	NC	<0.067	<0.069	<0.069	<0.069	<0.073	<0.071	<0.069	<0.067	<0.071	<0.074
Aroclor 1232	NC	<0.047	<0.048	<0.048	<0.048	<0.051	<0.049	<0.048	<0.046	<0.049	<0.051
Aroclor 1242	NC	<0.052	<0.053	<0.053	<0.053	<0.056	<0.054	<0.053	<0.051	<0.055	<0.057
Aroclor 1248	NC	<0.062	<0.064	<0.064	<0.064	<0.067	<0.065	<0.064	<0.062	<0.066	<0.068
Aroclor 1254	NC	<0.067	<0.069	<0.069	<0.069	<0.073	<0.071	<0.069	<0.067	<0.071	<0.074
Aroclor 1260	NC	<0.073	<0.074	<0.074	<0.074	<0.079	<0.076	<0.074	<0.072	<0.077	<0.080
Aroclor 1262	NC	<0.052	<0.053	<0.053	<0.053	<0.056	<0.054	<0.053	<0.051	<0.055	<0.057
Aroclor 1268	NC	<0.042	<0.042	<0.043	<0.043	<0.045	<0.044	<0.043	<0.041	<0.044	<0.046

Notes:
mg/kg - milligrams per kilogram
< - Less than detection limit
NC - No criterion

Table 7
Summary of Soil Sampling Analytical Results for
Pesticides and Herbicides
Proposed Addition to Public School - 450Q
28-01 41st Avenue
Queens, New York

SAMPLE NAME		**DUP-1**		**TRC-SB-1 (1-3)**		**TRC-SB-1 (10-12)**		**TRC-SB-2 (1-3)**		**TRC-SB-2 (10-12)**		**TRC-SB-3 (1-3)**		**TRC-SB-3 (10-12)**		**TRC-SB-4 (1-3)**		**TRC-SB-4 (10-12)**	
LAB SAMPLE ID		**16C0970-21**		**16C0970-03**		**16C0970-04**		**16C0970-05**		**16C0970-06**		**16C0970-07**		**16C0970-08**		**16C0970-09**		**16C0970-10**	
DILUTION FACTOR		**1**		**1/10**		**1**		**1**		**1**		**1**		**1**		**1**		**1**	
DATE SAMPLE COLLECTED		**3/19/2016**		**3/19/2016**		**3/19/2016**		**3/19/2016**		**3/19/2016**		**3/20/2016**		**3/20/2016**		**3/19/2016**		**3/19/2016**	
PESTICIDES AND HERBICIDES	**Unrestricted Use SCO (mg/kg)**	**Result (mg/kg)**		**Result (mg/kg)**		**Result (mg/kg)**		**Result (mg/kg)**		**Result (mg/kg)**		**Result (mg/kg)**		**Result (mg/kg)**		**Result (mg/kg)**		**Result (mg/kg)**	
alpha-Chlordane	NC	<0.00030		<0.00032		<0.00029		<0.00032		<0.00032		<0.00029		<0.00030		<0.00029		<0.00031	
gamma-Chlordane	NC	<0.00030		<0.00032		<0.00029		<0.00032		<0.00032		<0.00029		<0.00030		<0.00029		<0.00031	
Alachlor	NC	<0.0012		<0.0012		<0.0011		<0.0012		<0.0013		<0.0011		<0.0012		<0.0011		<0.0012	
Aldrin	0.005	<0.00032		<0.00034		<0.00031		<0.00034		<0.00034		<0.00031		<0.00032		<0.00031		<0.00033	
alpha-BHC	0.02	<0.00043		<0.00045		<0.00041		<0.00045		<0.00046		<0.00042		<0.00043		<0.00041		<0.00044	
beta-BHC	0.036	<0.00054		<0.00057		<0.00052		<0.00057		<0.00057		<0.00052		<0.00053		<0.00051		<0.00055	
delta-BHC	0.04	<0.00043		<0.00045		<0.00041		<0.00045		<0.00046		<0.00042		<0.00043		<0.00041		<0.00044	
gamma-BHC (Lindane)	0.1	<0.00054		<0.00057		<0.00052		<0.00057		<0.00057		<0.00052		<0.00053		<0.00051		<0.00055	
Chlordane	0.094	<0.0062		<0.0066		<0.0060		<0.0066		<0.0066		<0.0060		<0.0062		<0.0059		<0.0064	
4,4'-DDD	0.0033	<0.00043		0.001	J	0.00055	J	**0.054**		<0.00046		0.00088	J	<0.00043		<0.00041		<0.00044	
4,4'-DDE	0.0033	0.00041	J	<0.00034		<0.00031		0.00087	J	<0.00034		0.00034	J	<0.00032		<0.00031		<0.00033	
4,4'-DDT	0.0033	<0.00043		0.0028	J	0.00062	J	**0.0098**		<0.00046		0.00072	J	<0.00043		<0.00041		<0.00044	
Dieldrin	0.005	<0.00032		<0.00034		<0.00031		<0.00034		<0.00034		<0.00031		<0.00032		<0.00031		<0.00033	
Endosulfan I	2.4	<0.00043		<0.00045		<0.00041		<0.00045		<0.00046		<0.00042		<0.00043		<0.00041		<0.00044	
Endosulfan II	2.4	<0.00032		0.0018	J	<0.00031		0.0023	J	<0.00034		0.00037	J	<0.00032		<0.00031		<0.00033	
Endosulfan Sulfate	2.4	<0.0014		0.0019	J	<0.0013		<0.0015		<0.0015		<0.0014		<0.0014		<0.0013		<0.0014	
Endrin	0.014	<0.00032		<0.00034		<0.00031		<0.00034		<0.00034		<0.00031		<0.00032		<0.00031		<0.00033	
Endrin aldehyde	NC	<0.0013		<0.0014		<0.0012		0.0079	J	<0.0014		<0.0013		<0.0013		<0.0012		<0.0013	
Endrin ketone	NC	<0.00043		<0.00045		<0.00041		<0.00045		<0.00046		<0.00042		<0.00043		<0.00041		<0.00044	
Heptachlor	0.042	<0.00054		<0.00057		<0.00052		<0.00057		<0.00057		<0.00052		<0.00053		<0.00051		<0.00055	
Heptachlor epoxide	NC	<0.00043		<0.00045		<0.00041		<0.00045		<0.00046		<0.00042		<0.00043		<0.00041		<0.00044	
Hexachlorobenzene	0.33	<0.00075		0.0019	J	<0.00072		<0.00079		<0.00080		<0.00073		0.0023	J	<0.00072		<0.00077	
Methoxychlor	NC	<0.00065		<0.00068		<0.00062		<0.00068		<0.00069		<0.00063		<0.00064		<0.00061		<0.00066	
Toxaphene	NC	<0.046		<0.049		<0.045		<0.049		<0.049		<0.045		<0.046		<0.044		<0.047	
2,4-D	NC	<8.9		<9.4		<8.5		<9.4		<9.4		<8.6		<8.8		<8.4		<9.1	
2,4,5-TP (Silvex)	NC	<1.6		<1.7		<1.6		<1.7		<1.7		<1.6		<1.6		<1.6		<1.7	
2,4,5-T	NC	<1.2		<1.2		<1.1		<1.2		<1.3		<1.1		<1.2		<1.1		<1.2	

Notes:
mg/kg - milligrams per kilogram
< - Less than detection limit
NC - No criterion
J - Estimated Value
Light gray shade with black bolded text values exceed Unrestricted Use SCOs

Table 7
Summary of Soil Sampling Analytical Results for
Pesticides and Herbicides
Proposed Addition to Public School - 450Q
28-01 41st Avenue
Queens, New York

SAMPLE NAME		**TRC-SB-5 (1-3)**		**TRC-SB-5 (10-12)**		**TRC-SB-6 (1-3)**		**TRC-SB-6 (10-12)**		**TRC-SB-7 (1-3)**		**TRC-SB-7 (10-12)**		**TRC-SB-8 (1-3)**		**TRC-SB-8 (10-12)**		**TRC-SB-9 (1-3)**		**TRC-SB-9 (10-12)**	
LAB SAMPLE ID		**16C0970-11**		**16C0970-12**		**16C0970-13**		**16C0970-14**		**16C0970-15**		**16C0970-16**		**16C0970-17**		**16C0970-18**		**16C0970-19**		**16C0970-20**	
DILUTION FACTOR		**1**		**1**		**1**		**1**		**1**		**1**		**1**		**1**		**1**		**1**	
DATE SAMPLE COLLECTED		**3/20/2016**		**3/20/2016**		**3/19/2016**		**3/19/2016**		**3/19/2016**		**3/19/2016**		**3/20/2016**		**3/20/2016**		**3/20/2016**		**3/20/2016**	
PESTICIDES AND HERBICIDES	**Unrestricted Use SCO (mg/kg)**	**Result (mg/kg)**		**Result (mg/kg)**		**Result (mg/kg)**		**Result (mg/kg)**		**Result (mg/kg)**		**Result (mg/kg)**		**Result (mg/kg)**		**Result (mg/kg)**		**Result (mg/kg)**		**Result (mg/kg)**	
alpha-Chlordane	NC	<0.00029		<0.00030		<0.00030		<0.00030		<0.00031		<0.00031		<0.00030		<0.00029		<0.00031		<0.00032	
gamma-Chlordane	NC	<0.00029		<0.00030		<0.00030		<0.00030		<0.00031		<0.00031		<0.00030		<0.00029		<0.00031		<0.00032	
Alachlor	NC	<0.0011		<0.0012		<0.0012		<0.0012		<0.0012		<0.0012		<0.0012		<0.0011		<0.0012		<0.0013	
Aldrin	0.005	<0.00031		<0.00032		<0.00032		<0.00032		<0.00034		<0.00033		<0.00032		<0.00031		<0.00033		<0.00034	
alpha-BHC	0.02	<0.00042		<0.00042		<0.00043		<0.00043		<0.00045		<0.00044		<0.00043		<0.00041		<0.00044		<0.00046	
beta-BHC	0.036	<0.00052		<0.00053		0.0014	J	0.001	J	0.00089	J	<0.00054		<0.00053		<0.00051		<0.00055		<0.00057	
delta-BHC	0.04	<0.00042		<0.00042		<0.00043		<0.00043		<0.00045		<0.00044		<0.00043		<0.00041		<0.00044		<0.00046	
gamma-BHC (Lindane)	0.1	<0.00052		<0.00053		<0.00053		<0.00053		<0.00056		<0.00054		<0.00053		<0.00051		<0.00055		<0.00057	
Chlordane	0.094	<0.0060		<0.0062		<0.0062		<0.0062		<0.0065		<0.0063		<0.0062		<0.0060		0.046		<0.0066	
4,4'-DDD	0.0033	<0.00042		<0.00042		<0.00043		0.0014	J	**0.037**		<0.00044		0.0025	J	<0.00041		<0.00044		<0.00046	
4,4'-DDE	0.0033	<0.00031		<0.00032		0.00034	J	<0.00032		<0.00034		<0.00033		<0.00032		<0.00031		0.00095	J	<0.00034	
4,4'-DDT	0.0033	<0.00042		<0.00042		<0.00043		<0.00043		**0.008**		<0.00044		0.0019	J	<0.00041		**0.0041**	J	<0.00046	
Dieldrin	0.005	<0.00031		<0.00032		<0.00032		<0.00032		0.00044	J	<0.00033		<0.00032		<0.00031		0.0013	J	<0.00034	
Endosulfan I	2.4	<0.00042		<0.00042		<0.00043		<0.00043		<0.00045		<0.00044		<0.00043		<0.00041		<0.00044		<0.00046	
Endosulfan II	2.4	<0.00031		<0.00032		<0.00032		<0.00032		0.0022	J	<0.00033		0.0013	J	<0.00031		0.00087	J	<0.00034	
Endosulfan Sulfate	2.4	<0.0013		<0.0014		<0.0014		<0.0014		<0.0015		<0.0014		<0.0014		<0.0013		<0.0014		<0.0015	
Endrin	0.014	<0.00031		<0.00032		<0.00032		<0.00032		<0.00034		<0.00033		0.00078	J	<0.00031		0.00039	J	<0.00034	
Endrin aldehyde	NC	<0.0012		<0.0013		<0.0013		<0.0013		0.011		<0.0013		<0.0013		<0.0012		<0.0013		<0.0014	
Endrin ketone	NC	<0.00042		<0.00042		<0.00043		<0.00043		<0.00045		<0.00044		<0.00043		<0.00041		<0.00044		<0.00046	
Heptachlor	0.042	<0.00052		<0.00053		<0.00053		<0.00053		<0.00056		<0.00054		<0.00053		<0.00051		<0.00055		<0.00057	
Heptachlor epoxide	NC	<0.00042		<0.00042		<0.00043		<0.00043		<0.00045		<0.00044		<0.00043		<0.00041		0.00095	J	<0.00046	
Hexachlorobenzene	0.33	<0.00073		<0.00074		<0.00074		0.00091	J	<0.00079		<0.00076		<0.00074		<0.00072		<0.00077		<0.00080	
Methoxychlor	NC	<0.00062		<0.00064		<0.00064		<0.00064		<0.00067		<0.00065		<0.00064		<0.00062		<0.00066		<0.00068	
Toxaphene	NC	<0.045		<0.046		<0.046		<0.046		<0.048		<0.047		<0.046		<0.044		<0.047		<0.049	
2,4-D	NC	<8.6		<8.8		<8.8		<8.8		<9.3		<9.1		<8.8		<8.5		<9.1		<9.5	
2,4,5-TP (Silvex)	NC	<1.6		<1.6		<1.6		<1.6		<1.7		<1.7		<1.6		<1.6		<1.7		<1.8	
2,4,5-T	NC	<1.1		<1.2		<1.2		<1.2		<1.2		<1.2		<1.2		<1.1		<1.2		<1.3	

Notes:
mg/kg - milligrams per kilogram
< - Less than detection limit
NC - No criterion
J - Estimated Value
Light gray shade with black bolded text values exceed Unrestricted Use SCOs

Table 8
Summary of Soil Sampling Analytical Results for
Generic Waste Characterization Parameters
Proposed Addition to Public School - 450Q
28-01 41st Avenue
Queens, New York

SAMPLE NAME	**TRC-SB-1 (10-12)**		**TRC-SB-2 (1-3)**		**TRC-SB-5 (10-12)**		**TRC-SB-6 (1-3)**		**TRC-SB-7 (10-12)**	
LAB SAMPLE ID	**16C0970-04**		**16C0970-05**		**16C0970-12**		**16C0970-13**		**16C0970-16**	
DILUTION FACTOR	**1**		**1/20**		**1**		**1/20**		**1**	
DATE SAMPLE COLLECTED	**3/19/2016**		**3/19/2016**		**3/20/2016**		**3/19/2016**		**3/19/2016**	
PARAMETERS	**Result (mg/kg)**		**Result (mg/kg)**		**Result (mg/kg)**		**Result (mg/kg)**		**Result (mg/kg)**	
Gasoline Range Organics (GRO)	<2.6		<1.3		<1.1		<1.1		<1.2	
Diesel Range Organics	2.4	J	740		2.2	J	1,200		2.9	J
Ignitability	Absent		Absent		Absent		Absent		Absent	
Reactive Cyanide	<4.0		<4.0		<4.0		<4.0		<4.0	
Reactive Sulfide	<20		<20		<20		<20		<20	
pH (pH units)	7.8		7.1		5.2		7.8		7.9	

Notes:
mg/kg - milligrams per kilogram
< - Less than detection limit
J - Estimated Value

Table 9
Summary of Groundwater Sampling Analytical Results for Volatile Organic Compounds plus tentatively identified compounds
Proposed Addition to Public School - 450Q
28-01 41st Avenue
Queens, New York

SAMPLE NAME		TRC-GW-1		TRC-GW-3		TRC-GW-4		TRC-GW-5		Trip Blank	
LAB SAMPLE ID		16C0970-22		16C0970-23		16C0970-24		16C0970-25		16C0970-26	
DILUTION FACTOR		1		1		1		1		1	
DATE SAMPLE COLLECTED		3/19/2016		3/19/2016		3/19/2016		3/20/2016		3/16/2016	
VOLATILE ORGANIC COMPOUNDS (VOCs)	Class GA Value (µg/L)	Result (µg/L)		Result (µg/L)		Result (µg/L)		Result (µg/L)		Result (µg/L)	
Acetone	50	<4.9		<4.9		<4.9		<4.9		<4.9	
Benzene	1	<0.12		<0.12		<0.12		<0.12		<0.12	
Bromochloromethane	5	<0.22		<0.22		<0.22		<0.22		<0.22	
Bromodichloromethane	50	<0.088		<0.088		<0.088		<0.088		<0.088	
Bromoform	50	<0.21		<0.21		<0.21		<0.21		<0.21	
Bromomethane	5	<0.94		<0.94		<0.94		<0.94		<0.94	
2-Butanone (MEK)	50	<2.4		<2.4		<2.4		<2.4		<2.4	
Carbon Disulfide	60	<1.0		<1.0		<1.0		<1.0		<1.0	
Carbon Tetrachloride	5	<0.12		<0.12		<0.12		<0.12		<0.12	
Chlorobenzene	5	<0.16		<0.16		<0.16		<0.16		<0.16	
Dibromochloromethane	50	<0.10		<0.10		<0.10		<0.10		<0.10	
Chloroethane	5	<0.28		<0.28		<0.28		<0.28		<0.28	
Chloroform	7	<0.22		<0.22		1.4	J	0.57	J	<0.22	
Chloromethane	5	<0.32		<0.32		<0.32		<0.32		<0.32	
Cyclohexane	NC	<0.25		<0.25		<0.25		<0.25		<0.25	
1,2-Dibromo-3-chloropropane	0.04	<0.34		<0.34		<0.34		<0.34		<0.34	
1,2-Dibromoethane (EDB)	0.0006	<0.12		<0.12		<0.12		<0.12		<0.12	
1,2-Dichlorobenzene	3	<0.17		<0.17		<0.17		<0.17		<0.17	
1,3-Dichlorobenzene	3	<0.17		<0.17		<0.17		<0.17		<0.17	
1,4-Dichlorobenzene	3	<0.15		<0.15		<0.15		<0.15		<0.15	
Dichlorodifluoromethane	5	<0.18		<0.18		<0.18		<0.18		<0.18	
1,1-Dichloroethane	5	<0.16		<0.16		<0.16		<0.16		<0.16	
1,2-Dichloroethane	0.6	<0.19		<0.19		<0.19		<0.19		<0.19	
1,1-Dichloroethene	5	<0.21		<0.21		<0.21		<0.21		<0.21	
cis-1,2-Dichloroethene	5	<0.15		<0.15		<0.15		<0.15		<0.15	
trans-1,2-Dichloroethene	5	<0.15		<0.15		<0.15		<0.15		<0.15	
1,2-Dichloropropane	1	<0.13		<0.13		<0.13		<0.13		<0.13	
cis-1,3-Dichloropropene	0.4	<0.12		<0.12		<0.12		<0.12		<0.12	
trans-1,3-Dichloropropene	0.4	<0.11		<0.11		<0.11		<0.11		<0.11	
Ethylbenzene	5	<0.13		<0.13		<0.13		<0.13		<0.13	
2-Hexanone (MBK)	50	<1.5		<1.5		<1.5		<1.5		<1.5	
Isopropylbenzene	5	<0.12		<0.12		<0.12		<0.12		<0.12	
Methyl acetate	NC	<0.42		<0.42		<0.42		<0.42		<0.42	
Methyl tert-butyl ether	10	<0.090		0.58	J	<0.090		<0.090		<0.090	
Methylcyclohexane	NC	<0.63		<0.63		<0.63		<0.63		<0.63	
Methylene chloride	5	<3.2		<3.2		<3.2		<3.2		<3.2	
4-Methyl-2-Pentanone	NC	<1.5		<1.5		<1.5		<1.5		<1.5	
Styrene	5	<0.15		<0.15		<0.15		<0.15		<0.15	
1,1,2,2-Tetrachloroethane	5	<0.16		<0.16		<0.16		<0.16		<0.16	
Tetrachloroethene	5	<0.17		<0.17		0.82	J	2.4		<0.17	
Toluene	5	<0.17		<0.17		<0.17		<0.17		<0.17	
1,2,3-Trichlorobenzene	5	<0.14		<0.14		<0.14		<0.14		<0.14	
1,2,4-Trichlorobenzene	5	<0.19		<0.19		<0.19		<0.19		<0.19	
1,1,1-Trichloroethane	5	<0.094		<0.094		<0.094		<0.094		<0.094	
1,1,2-Trichloroethane	1	<0.12		<0.12		<0.12		<0.12		<0.12	
Trichloroethene	5	<0.20		<0.20		0.69	J	<0.20		<0.20	
Trichlorofluoromethane	5	<0.15		<0.15		<0.15		<0.15		<0.15	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	5	<0.14		<0.14		<0.14		<0.14		<0.14	
Vinyl chloride	2	<0.13		<0.13		<0.13		<0.13		<0.13	
m/p-Xylene	5	<0.25		<0.25		<0.25		<0.25		<0.25	
o-Xylene	5	<0.13		<0.13		<0.13		<0.13		<0.13	
Xylenes (Total)	5	<3.0		<3.0		<3.0		<3.0		<3.0	
No TICs Found	NC	0.0		0.0		0.0		0.0		0.0	

Notes:
µg/L - micrograms per liter
< - Less than detection limit
NC - No criterion
J - Estimated Value

Table 10
Summary of Groundwater Sampling Analytical Results for
Semivolatile Organic Compounds plus tentatively identified compounds
Proposed Addition to Public School - 450Q
28-01 41st Avenue
Queens, New York

SAMPLE NAME		**TRC-GW-1**		**TRC-GW-3**		**TRC-GW-4**		**TRC-GW-5**	
LAB SAMPLE ID		**16C0970-22**		**16C0970-23**		**16C0970-24**		**16C0970-25**	
DILUTION FACTOR		**1**		**1**		**1**		**1**	
DATE SAMPLE COLLECTED		**3/19/2016**		**3/19/2016**		**3/19/2016**		**3/20/2016**	
SEMIVOLATILE ORGANIC COMPOUNDS (SVOCs)	**Class GA Value (µg/L)**	**Result (µg/L)**		**Result (µg/L)**		**Result (µg/L)**		**Result (µg/L)**	
Atrazine	7.5	<15		<16		<16		<14	
Benzaldehyde	NC	<8.1		<8.7		<8.7		<7.8	
Biphenyl	5	<9.8		<10		<10		<9.3	
Caprolactam	NC	<2.2		<2.4		<2.4		<2.1	
Acenaphthene	20	<0.056		<0.060		0.21	J	<0.053	
Acenaphthylene	NC	<0.047		<0.050		<0.050		<0.044	
Acetophenone	NC	<3.7		<4.0		<4.0		<3.5	
Anthracene	50	<0.037		<0.040		0.22		<0.036	
Benzo(a)anthracene	0.002	<0.047		<0.050		**0.051**		<0.044	
Benzo(a)pyrene	0.002	**0.043**	J	<0.040		<0.040		<0.036	
Benzo(b)fluoranthene	0.002	**0.079**		<0.020		**0.032**	**J**	<0.018	
Benzo(g,h,i)perylene	NC	<0.065		<0.070		<0.070		<0.062	
Benzo(k)fluoranthene	0.002	<0.093		<0.10		<0.10		<0.089	
Bis(2-chloroethoxy)methane	5	<4.4		<4.8		<4.8		<4.2	
Bis2-chloroethyl ether	1	<3.9		<4.2		<4.2		<3.7	
Bis(2-chloroisopropyl)ether	5	<2.8		<3.0		<3.0		<2.6	
bis(2-ethylhexyl)phthalate	5	<4.4		<4.7		<4.7		<4.2	
4-Bromophenylphenylether	NC	<1.9		<2.0		<2.0		<1.8	
Butyl benzyl phthalate	50	<2.8		<3.0		<3.0		<2.7	
Carbazole	NC	<4.1		<4.5		<4.5		<4.0	
4-Chloroaniline	5	<3.6		<3.9		<3.9		<3.4	
4-Chloro-3-methylphenol	1	<4.5		<4.9		<4.9		<4.3	
2-Chloronaphthalene	10	<2.7		<2.9		<2.9		<2.6	
2-Chlorophenol	1	<1.5		<1.6		<1.6		<1.4	
4-Chlorophenylphenylether	NC	<4.4		<4.7		<4.7		<4.2	
Chrysene	0.002	**0.075**	J	<0.030		**0.05**	J	<0.027	
Dibenz(a,h)anthracene	NC	<0.037		<0.040		<0.040		<0.036	
Dibenzofuran	NC	<4.4		<4.7		<4.7		<4.2	
Di-n-butyl phthalate	50	<4.4		<4.7		<4.7		<4.2	
3,3'-Dichlorobenzidine	5	<2.1		<2.2		<2.2		<2.0	
2,4-Dichlorophenol	5	<4.2		<4.6		<4.6		<4.1	
Diethylphthalate	50	<4.0		<4.2		<4.2		<3.8	
2,4-Dimethylphenol	50	<2.2		<2.4		<2.4		<2.1	
Dimethyl phthalate	50	<4.3		<4.6		<4.6		<4.1	
4,6-Dinitro-2-methylphenol	NC	<5.2		<5.6		<5.6		<5.0	
2,4-Dinitrophenol	10	<6.2		<6.7		<6.7		<5.9	
2,4-Dinitrotoluene	5	<4.8		<5.2		<5.2		<4.6	
2,6-Dinitrotoluene	5	<4.5		<4.9		<4.9		<4.3	
Di-n-octyl phthalate	50	<4.0		<4.3		<4.3		<3.8	
Fluoranthene	50	0.18	J	<0.030		0.45	J	0.031	J
Fluorene	50	<0.037		<0.040		0.26	J	<0.036	
Hexachlorobenzene	0.04	<4.3		<4.6		<4.6		<4.1	
Hexachlorobutadiene	0.5	<1.7		<1.8		<1.8		<1.6	
Hexachlorocyclopentadiene	5	<5.6		<6.0		<6.0		<5.4	
Hexachloroethane	5	<1.4		<1.5		<1.5		<1.3	
Indeno(1,2,3-cd)pyrene	0.002	<0.074		<0.080		<0.080		<0.071	
Isophorone	50	<1.7		<1.8		<1.8		<1.6	
2-Methylnaphthalene	NC	<0.074		<0.080		0.15	J	<0.071	
o-Cresol (2-Methylphenol)	1	<2.4		<2.6		<2.6		<2.3	
3/4-Methylphenol	NC	<3.9		<4.1		<4.1		<3.7	
Naphthalene	10	0.32	J	0.11	J	0.24	J	<0.062	
2-Nitroaniline	5	<5.9		<6.3		<6.3		<5.6	
3-Nitroaniline	5	<4.0		<4.3		<4.3		<3.8	
4-Nitroaniline	5	<3.4		<3.7		<3.7		<3.3	
Nitrobenzene	0.4	<4.0		<4.3		<4.3		<3.8	
2-Nitrophenol	1	<1.9		<2.0		<2.0		<1.8	
4-Nitrophenol	1	<2.2		<2.3		<2.3		<2.1	
N-Nitrosodiphenylamine	50	<1.8		<1.9		<1.9		<1.7	
N-Nitrosodi-n-propylamine	NC	<4.3		<4.6		<4.6		<4.1	
Pentachlorophenol	1	<3.1		<3.4		<3.4		<3.0	
Phenanthrene	50	0.18		0.044	J	1.3		0.078	
Phenol	1	<2.4		<2.5		<2.5		<2.2	
Pyrene	50	0.13	J	<0.030		0.32	J	0.028	J
1,2,4,5-Tetrachlorobenzene	NC	<1.9		<2.1		<2.1		<1.8	
2,4,5-Trichlorophenol	1	<3.7		<4.0		<4.0		<3.5	
2,4,6-Trichlorophenol	1	<3.5		<3.7		<3.7		<3.3	
No TICs Found	NC	0.0		0.0		0.0		0	

Notes:
µg/L - micrograms per liter
< - Less than detection limit
NC - No criterion
J - Estimated Value
Light gray shade with black bolded text values exceed Class GA Standards/Guidance Values.

Table 11
Summary of Groundwater Sampling Analytical Results for
Metals (Total and Dissolved)
Proposed Addition to Public School - 450Q
28-01 41st Avenue
Queens, New York

SAMPLE NAME		**TRC-GW-1**		**TRC-GW-1**		**TRC-GW-3**		**TRC-GW-3**		**TRC-GW-4**		**TRC-GW-4**		**TRC-GW-5**		**TRC-GW-5**	
LAB SAMPLE ID		**16C0970-22**		**16C0970-22**		**16C0970-23**		**16C0970-23**		**16C0970-24**		**16C0970-24**		**16C0970-25**		**16C0970-25**	
DILUTION FACTOR		**1**		**1**		**1**		**1**		**1**		**1**		**1**		**1**	
SAMPLE PREPARATION		**TOTAL**		**DISSOLVED**		**TOTAL**		**DISSOLVED**		**TOTAL**		**DISSOLVED**		**TOTAL**		**DISSOLVED**	
DATE SAMPLE COLLECTED		**3/19/2016**		**3/19/2016**		**3/19/2016**		**3/19/2016**		**3/19/2016**		**3/19/2016**		**3/20/2016**		**3/20/2016**	
METALS	**Class GA Value (µg/L)**	**Result (µg/L)**		**Result (µg/L)**		**Result (µg/L)**		**Result (µg/L)**		**Result (µg/L)**		**Result (µg/L)**		**Result (µg/L)**		**Result (µg/L)**	
Antimony	3	<0.69		<0.69		<0.69		<0.69		<0.69		<0.69		<0.69		<0.69	
Arsenic	25	5.1		<1.5		4.8		<1.5		7.4		<1.5		2.8		<1.5	
Barium	1,000	900		74		**1,100**		190		**1,100**		63		**3,600**		460	
Beryllium	3	**3.2**		<0.30		2.3		<0.30		2.5		<0.30		1	J	<0.30	
Cadmium	5	2.2	J	<0.085		1.4	J	<0.085		2.3	J	<0.085		2.4	J	<0.085	
Chromium	50	**240**		9.7		**160**		2.8	J	**160**		<2.2		**57**		<2.2	
Cobalt	NC	200		1.3	J	150		13		240		8.7		56		1.3	J
Copper	200	**350**		1.7	J	180		5.2	J	**210**		3.4	J	85		5.2	J
Lead	25	**130**		<0.27		**48**		1.1	J	**130**		<0.27		23		0.52	J
Manganese	300	**8,600**		140		**7,000**		**490**		**12,000**		**490**		**7,600**		57	
Mercury	0.7	<0.000019		<0.000019		<0.000019		<0.000019		<0.000019		<0.000019		<0.000019		<0.000019	
Nickel	100	**220**		5.3	J	**180**		15	J	**190**		11	J	**110**		6.9	J
Selenium	10	9.6	J	8.4	J	6.9	J	6	J	10	J	10	J	8	J	6.4	J
Silver	50	<0.57		<0.57		<0.57		<0.57		<0.57		<0.57		<0.57		<0.57	
Thallium	NC	0.84	J	<0.32		1.3		<0.32		0.93	J	<0.32		0.65	J	<0.32	
Vanadium	NC	160		<9.3		160		<9.3		160		<9.3		85		<9.3	
Zinc	2,000	450		<17		260		<17		310		<17		120		<17	

Notes:
µg/L - micrograms per liter
< - Less than detection limit
NC - No criterion
J - Estimated Value
Light gray shade with black bolded text values exceed Class GA Standards/Guidance Values.

Table 12
Summary of Groundwater Sampling Analytical Results for
Sewer Use Parameters
Proposed Addition to Public School - 450Q
28-01 41st Avenue
Queens, New York

SAMPLE NAME **LAB SAMPLE ID** **DILUTION FACTOR** **DATE SAMPLE COLLECTED**	**NYCDEP Sewer Use Discharge Parameters**		**TRC-GW-5** **16C0970-25** **1/10** **3/20/2016**	
PARAMETERS		**Units**	**Results**	
Non-polar material*	50	mg/L	14	U
pH (range)	5-11	SU's	NA (1)	
Benzene	134	ug/L	<0.12	
Ethylbenzene	380	ug/L	<0.13	
Toluene	74	ug/L	<0.17	
Xylene (Total)	74	ug/L	<0.38	
CBOD	--	mg/L	ND	
Cadmium**	2 / 0.69	mg/L	0.0024	J
Carbon Tetrachloride	--	ug/L	<0.12	
Chloride	--	mg/L	850	
Chloroform	--	ug/L	0.57	J
Copper	5	mg/L	0.085	
1,4 Dichlorobenzene	--	ug/L	<0.15	
Hexavalent Chromium	--	mg/L	<0.0030	
Lead	2	mg/L	0.023	
Mercury	0.05	mg/L	<0.000019	
Nickel	3	mg/L	0.11	
Zinc	5	mg/L	0.12	
Flash Point	>140	degrees F	> 212	
Temperature	<150	degrees F	53.1(1)	
TKN	--	mg/l	2.1	
Total Nitrogen	--	mg/L	7.7	
Total Solids	--	mg/L	2,800	
Total Suspended Solids	350	mg/L	300	
Phenolics	--	mg/L	0.057	
PCB's (Total)***	1	ug/L	ND	
1,2,4 Trichlorobenzene	--	ug/L	<0.19	
1,1,1-Trichloroethane	--	ug/L	<0.094	
Tetrachloroethene (PCE)	20	ug/L	2.4	
MTBE (Methyl-Tert-Butyl-Ether)	50	ug/L	<0.090	
Nitrate/Nitrite as N	--	mg/L	11	
Naphthalene	47	ug/L	<0.062	

Notes:

U - Less than reporting limit
-- No Criteria
D - Compound was diluted
NA - Compound not analyzed
ND - Not Detected
Shaded values exceed one or more NYCDEP Sewer Discharge Parameter.

* According to the New York City Department of Environmental Protection Bureau of Wastewater Treatment's *Limitations for Effluent* To Sanitary Or Combined Sewers, analysis for non-polar materials is by method 1664 Rev. A by EPA.

** The NYCDEP Sewer Use Discharge Parameter for cadmium - instantaneous is 2 mg/l and the NYCDEP Sewer Use Discharge Parameter for cadmium - composite is 0.69 mg/l.

*** Analysis for PCB's was performed by USEPA method 608 with MDL = 65 ppt.
(1) Temperature reading taken from Horiba U-52 Water Chemistry Meter prior to sample collection. Due to a calibration error on the Horiba U-52 Water Chemistry Meter, a pH reading was not recorded.
Light gray shade with black bolded text values exceed NYCDEP Sewer Use Discharge Parameters.

Table 13
Summary of Groundwater Sampling Analytical Results for
Toxicity Characteristic Leaching Procedure
Proposed Addition to Public School - 450Q
28-01 41st Avenue
Queens, New York

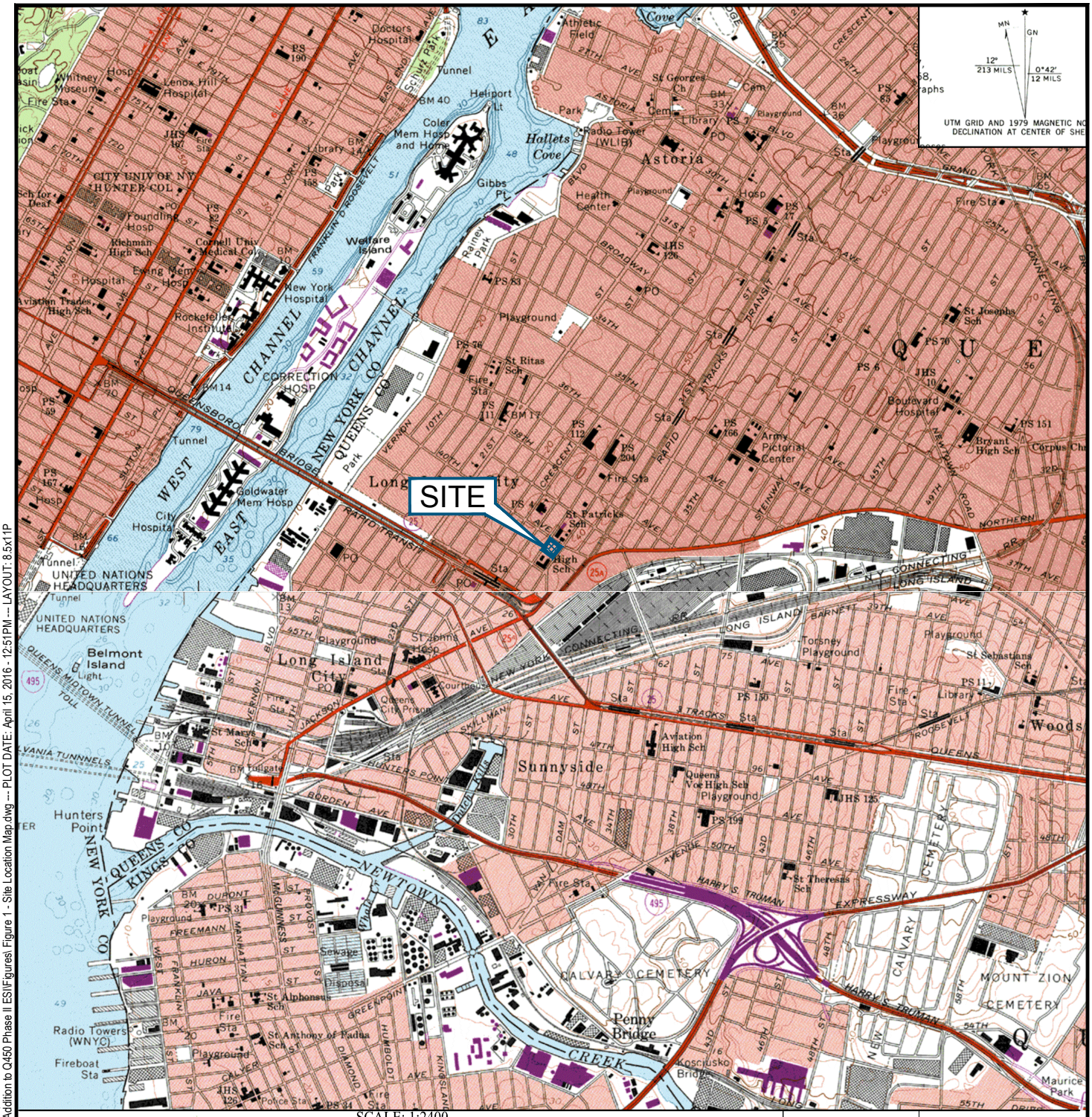
SAMPLE NAME		**TRC-SB-1 (1-3)**	**TRC-SB-1 (10-12)**	**TRC-SB-2 (1-3)**	**TRC-SB-6 (10-12)**
LAB SAMPLE ID		**16D0001-01**	**16D0001-02**	**16D0001-03**	**16D0001-04**
DILUTION FACTOR		**1**	**1**	**1**	**1**
DATE SAMPLE COLLECTED		**3/19/2016**	**3/19/2016**	**3/19/2016**	**3/19/2016**
Toxicity Characteristic Leaching Procedure (TCLP) - Metals	**Toxicity Level (mg/L)**	**Results (mg/L)**	**Results (mg/L)**	**Results (mg/L)**	**Results (mg/L)**
Barium	100	0.62	NA	1.1	NA
Lead	5	3	**7.6**	1.3	<0.010

Notes:
mg/L - milligrams per liter
NA - Not analyzed
Light gray shade with black bolded text values exceed TCLP Regulatory Levels

FIGURES

Figure 1

Site Location Map



SCALE: 1:2400

1 ½ 0 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 .5 0 1 KILOMETER

CONTOUR INTERVAL 10 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929
DEPTH CURVES AND SOUNDINGS IN FEET—DATUM IS MEAN LOW WATER

MAP INCLUDES INFORMATION FROM THE FOLLOWING MAP SHEET(S) DATED 1966, PHOTOREVISED 1979: TP, CENTRAL PARK, NY, 7.5-MINUTE S, BROOKLYN, NY, 7.5-MINUTE

MAP OBTAINED THROUGH USE OF TERRAIN NAVIGATOR PRO SOFTWARE.

TRC
1430 Broadway
10th Floor
New York, NY 10018
Phone: 212.221.7822

PROJECT: **NEW YORK CITY SCHOOL CONSTRUCTION AUTHORITY**
PHASE II ESI - PROPOSED ADDITION TO P.S. 450Q
28-01 41ST AVENUE - BLOCK: 404, PORTION OF LOT: 1
QUEENS, NEW YORK 11101

TITLE:

SITE LOCATION MAP

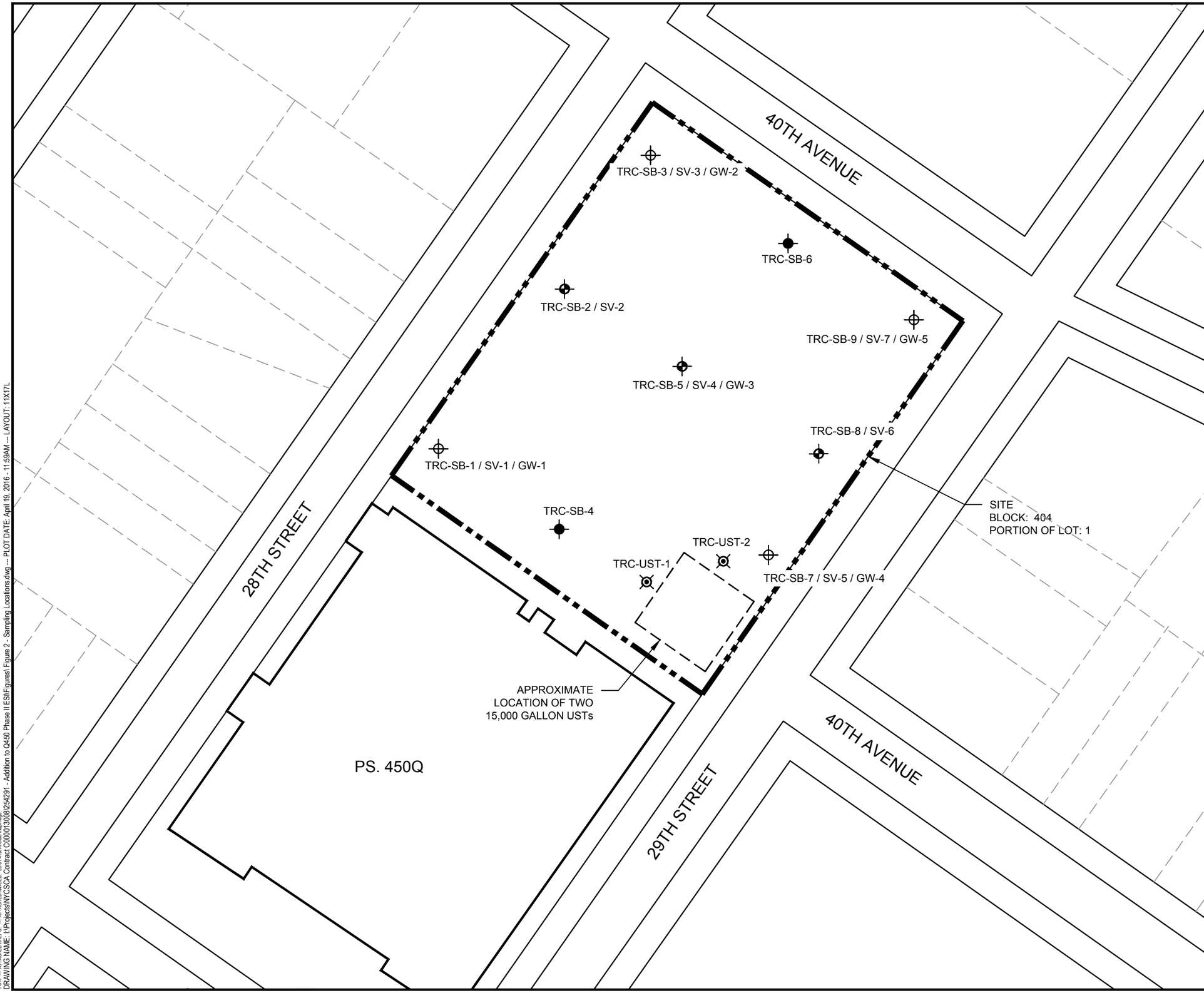
DRAWN BY:	HD
CHECKED BY:	PN
APPROVED BY:	RW
DATE:	APRIL 2016
PROJ. NO.:	254291.0000.0000
FILE:	Figure 1 - Site Location Map.dwg

FIGURE 1

8.5x11 --- ATTACHED XREFS: --- ATTACHED IMAGES: 2013 Topo Map: BROOKLYN, CENTRAL PARK
DRAWING NAME: I:\Projects\NYCSCA Contract C000013008\254291 - Addition to Q450 Phase II ESI\Figures\ Figure 1 - Site Location Map.dwg --- PLOT DATE: April 15, 2016 - 12:51PM --- LAYOUT: 8.5x11P

Figure 2

Sampling Location Plan



LEGEND:

	SITE BOUNDARY
	LOT BOUNDARY
	BUILDING FOOTPRINT
COMM.	COMMERCIAL
RES.	RESIDENTIAL
TRC-SB-X	SOIL BORING SAMPLE LOCATION AND IDENTIFICATION NUMBER
TRC-SB-X / SV-X	SOIL BORING AND SOIL VAPOR SAMPLE LOCATION AND IDENTIFICATION NUMBER
TRC-SB-X / SV-X / GW-X	SOIL BORING, SOIL VAPOR, AND GROUNDWATER SAMPLE LOCATION AND IDENTIFICATION NUMBER
TRC-UST-X	UST BORING LOCATION AND IDENTIFICATION NUMBER

N

SOURCE:
WWW.PROPERTYSHARK.COM

0 50' 100'

ASSUMED GROUNDWATER FLOW DIRECTION

PROJECT:
NEW YORK CITY SCHOOL CONSTRUCTION AUTHORITY
PHASE II ESI - PROPOSED ADDITION TO P.S. 450Q
28-01 41ST AVENUE - BLOCK: 404, PORTION OF LOT: 1
QUEENS, NEW YORK 11101

TITLE:
SAMPLING LOCATIONS

DRAWN BY:	HD	PROJ NO.:	254291.0000.0000
CHECKED BY:	PN		
APPROVED BY:	RW		**FIGURE 2**
DATE:	APRIL 2016		

TRC
1430 Broadway
10th Floor
New York, NY 10018
Phone: 212.221.7822

FILE NO.: Figure 2 - Sampling Locations.dwg

11x17 -- ATTACHED XREF'S: -- ATTACHED IMAGES: 28-01 41st Avenue mapsnap;
DRAWING NAME: I:\Projects\NYCSCA Contract C000013008\254291 - Addition to Q450 Phase II ESI\Figures\Figure 2 - Sampling Locations.dwg -- PLOT DATE: April 19, 2016 - 11:59AM -- LAYOUT: 11X17L

APPENDIX A

PHOTOGRAPHS

Appendix A
Phase II ESI Photograph Log

Photo 1: Area of underground storage tanks (USTs) and proposed soil boring location TRC-UST-2

Photo 2: Soil vapor point TRC-SV-3.

Photo 3: Macro core sleeves/soil from boring location TRC-SB-1.

Photo 4: Macro core sleeves/soil from boring location TRC-SB-2.

Photo 5: Geoprobe drill rig at boring location TRC-SB-3.

Photo 6: Macro core sleeves/soil from boring location TRC-SB-3.

TRC Job No.	Photographs Taken By:	Page No.	Client:	Site Name & Address:	
254291	R. Adams	1 of 2	NYCSCA	Proposed Addition to Public School – 450Q 28-01 41st Avenue Queens, New York	TRC

Appendix A
Phase II ESI Photograph Log

Photo 7: Macro core sleeves/soil from boring location TRC-SB-6.

Photo 8: Macro core sleeves/soil from boring location TRC-SB-7.

Photo 9: Macro core sleeves/soil from boring location TRC-UST-2.

Photo 10: Boring location TRC-SB-9 completed and asphalt patched.

APPENDIX B

GEOPHYSICAL SURVEY REPORT

GEOPHYSICAL ENGINEERING SURVEY REPORT

P.S. 450Q
2801 41st Avenue
Long Island City, New York 11101

NOVA PROJECT NUMBER
16-0198

DATED
March 18, 2016

PREPARED FOR:
TRC
1430 Broadway
10th Floor
New York, New York 10018

PREPARED BY:

NOVA
GEOPHYSICAL
ENGINEERING
Subsurface Mapping Solutions
56-01 Marathon Parkway # 765
Douglaston, New York 11362
347-556-7787 (PHONE)
718-261-1527(FAX)
www.nova-gsi.com

NOVA GEOPHYSICAL SERVICES

SUBSURFACE MAPPING SOLUTIONS
56-01 Marathon Parkway, # 765, Douglaston, New York 11362
Ph. 347-556-7787 Fax. 718-261-1527
www.nova-gsi.com

March 18, 2016

Patrick Narea
Project Manager
TRC
1430 Broadway
10th Floor
New York, New York 10018
Direct: 212.221.7822 x133

Re: Geophysical Engineering Survey (GES) Report
P.S. 450Q
2801 41st Avenue
Long Island City, New York 11101

Dear Mr. Narea:

Nova Geophysical Services (NOVA) is pleased to provide findings of the geophysical engineering survey (GES) at the above referenced project site: P.S. 450Q, 2801 41st Avenue, Long Island City, New York (the "Site"). Please see attached Site Location and Geophysical Survey maps for more details.

INTRODUCTION TO GEOPHYSICAL ENGINEERING SURVEY (GES)

NOVA performed a Geophysical engineering surveys (GES) consisting of a Ground Penetrating Radar (GPR) survey at the site. The purpose of this survey is to locate and identify USTs, anomalies, utilities and other substructures, to locate buried monitoring wells and to clear and mark proposed environmental boring areas on March 12, 2016.

The equipment selected for this investigation was a Noggin 250 MHz ground penetrating radar (GPR) shielded antenna and 3m DYNATL

A GPR system consists of a radar control unit, control cable and a transducer (antenna). The control unit transmits a trigger pulse at a normal repetition rate of 250 MHz. The trigger pulse is sent to the transmitter electronics in the transducer via the control cable. The transmitter electronics amplify the trigger pulses into bipolar pulses that are radiated to the surface. The transformed pulses vary in shape and frequency according to the transducer used. In the subsurface, variations of the signal occur at boundaries where there is a dielectric contrast (void, steel, soil type, etc.). Signal reflections travel back to the control unit and are represented as color graphic images for interpolation.

GEOPHYSICAL METHODS

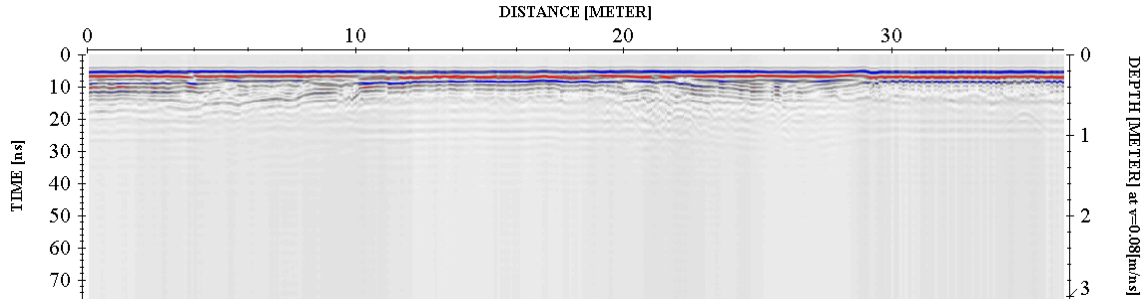
The project site was screened using the GPR to search the entire area and inspected for reflections, which could be indicative of major anomalies and substructures as well as buried monitoring wells.

GPR data profiles were collected for the areas of the Site specified by the client. The surveyed areas consisted of concrete and asphalt surfaces.

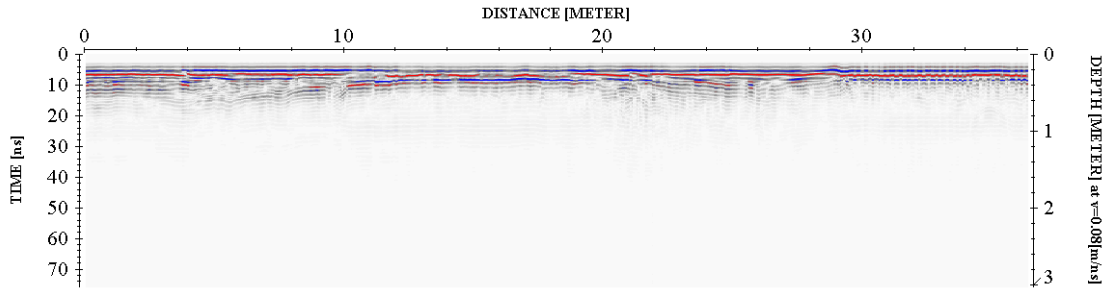
DATA PROCESSING

In order to improve the quality of the results and to better identify subsurface anomalies NOVA processed the collected data. The processes flow is briefly described at this section.

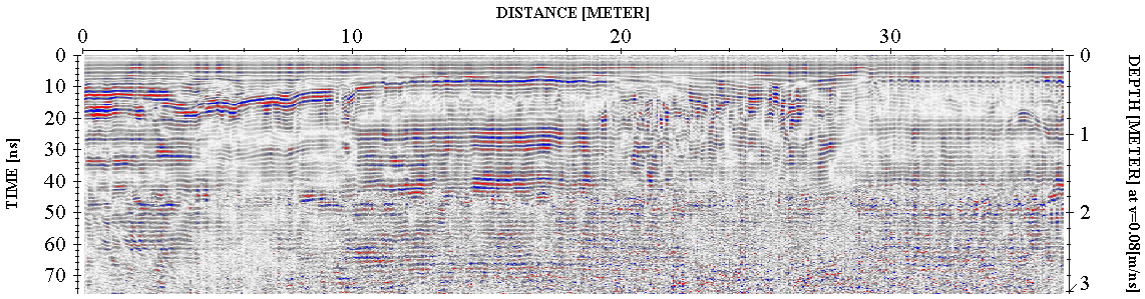
Step 1. Import raw RAMAC data to standard processing format



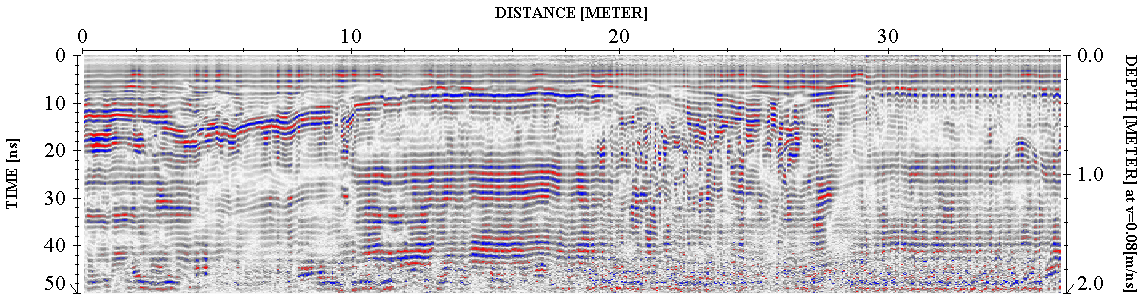
Step 2. Remove instrument noise *(dewow)*



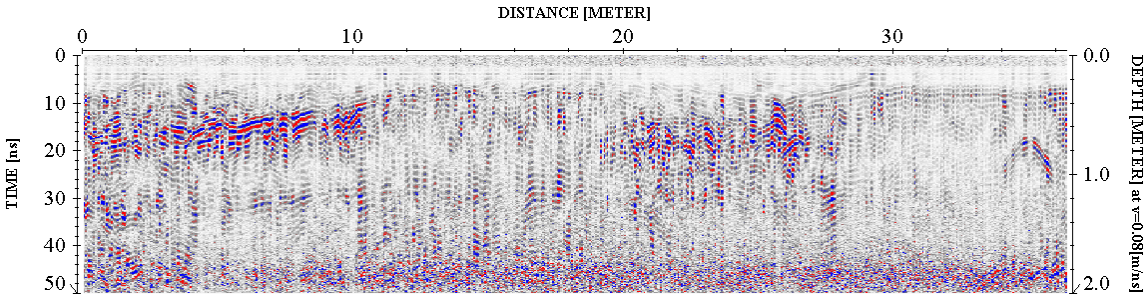
Step 3. Correct for attenuation losses *(energy decay function)*



Step 4. Remove static from bottom of profile *(time cut)*



Step 5. Mute horizontal ringing/noise *(subtracting average)*



The above example shows the significance of data processing. The last image (step 5) has higher resolution than the starting image (raw data – step 1) and describes the subsurface anomalies more accurately.

PHYSICAL SETTINGS

Nova observed following physical conditions at the time of the survey:

The weather: Sunny

Temp: 45 Degrees (F).

Surface: Concrete and asphalt surfaces

Geophysical Noise Level (GNL): Geophysical Noise Level (GNL) was medium to high at the site. The noise was a result of the site being in an urban area.

RESULTS

The results of the geophysical engineering survey (GES) identified following at the project Site:

- GES survey identified scattered anomalies located throughout the project site. Based on their rates and proximity, these anomalies were inconsistent with any USTs. These areas were indicated on the on-site markout.
- Several sewer lines were located on the site. These were marked out both at the site and on the survey map (subsurface only).
- Two large anomalies, consistent with potential USTs, were located on the site. These are indicate both on site and on the survey map.
- Geophysical Survey Plan portrays the areas investigated during the geophysical survey.

If you have any questions please do not hesitate to contact the undersigned.
Sincerely,

NOVA Geophysical Services

Levent Eskicakit, P.G., E.P.
Project Engineer

Attachments:
Figure 1 Site Location Map
Geophysical Survey Plan
Geophysical Images

N

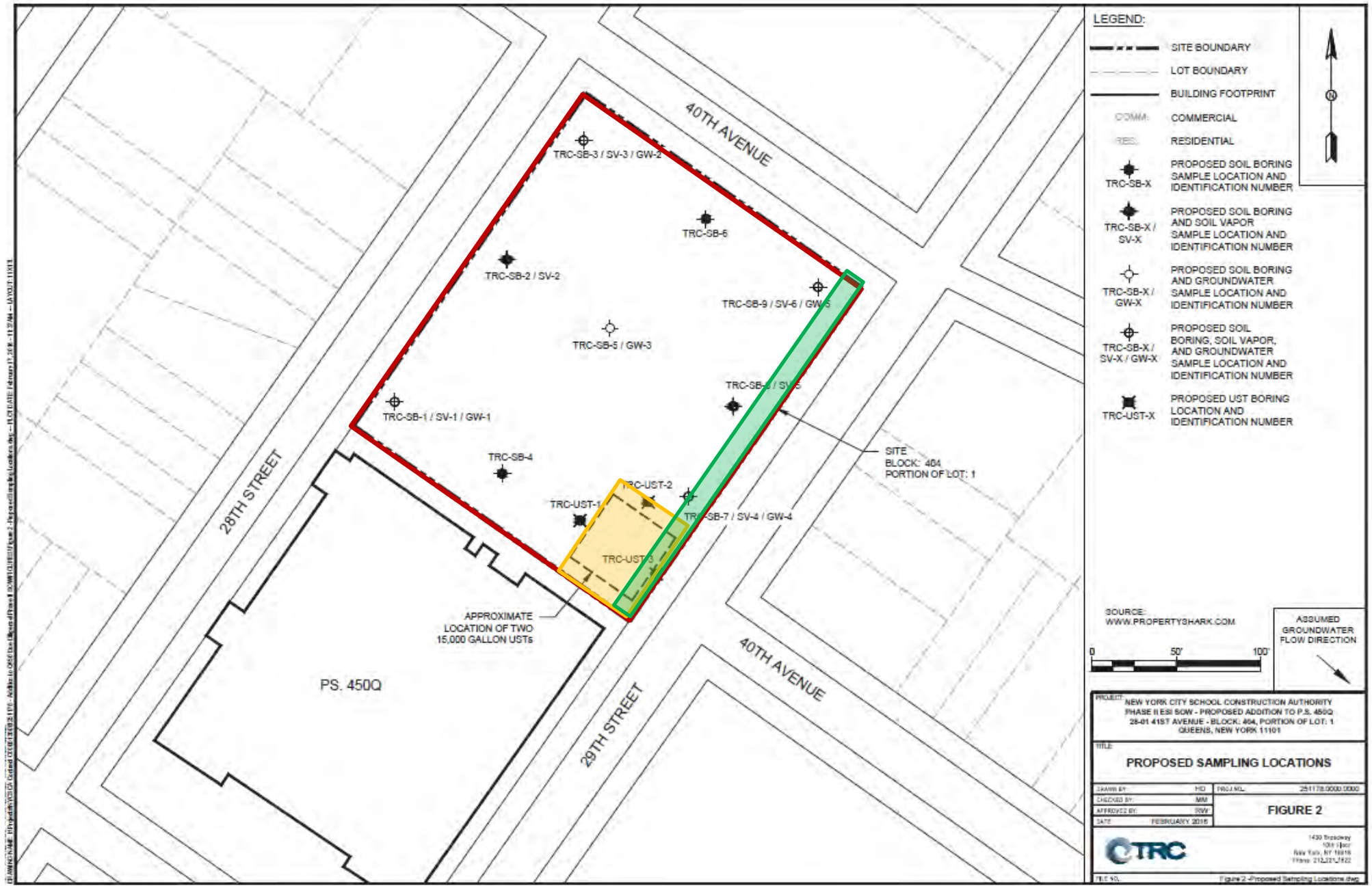
200 ft.

FIGURE 1
SITE LOCATION MAP

NOVA
Geophysical Services
Subsurface Mapping Solutions
56-01 Marathon Pkwy, # 765, Douglaston, NY11362
(347) 556-7787 Fax (718) 261-1528
www.nova-gsi.com

SITE: **P.S. 450Q**
2801 41st Avenue
Long Island City, New York 11101

SCALE: See Map



1- All anomalies were marked in the field.

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Douglaston, New York11362
Phone (347) 556-7787 * Fax (718) 261-1527
www.nova-gsi.com

GEOPHYSICAL SURVEY PLAN

SITE : **P.S. 450Q**
2801 41st Avenue
Long Island City, New York 11101

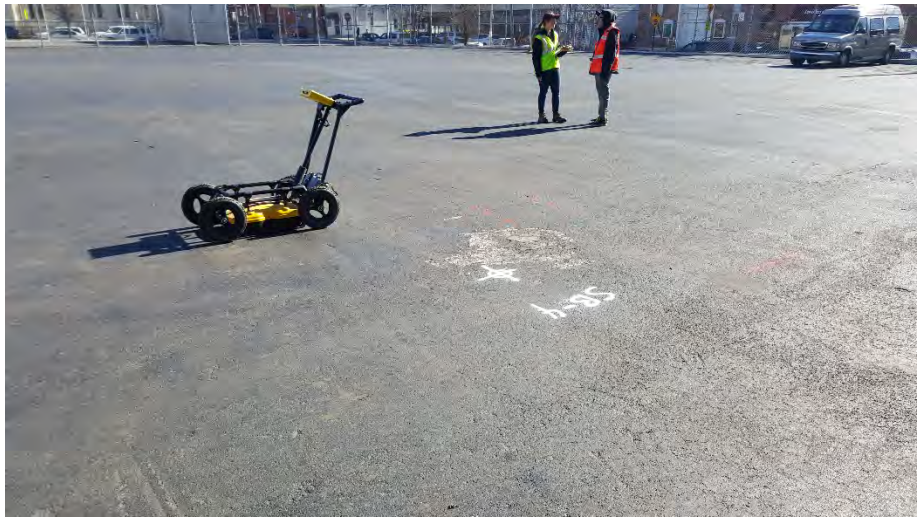
CLIENT: **TRC**
DATE: March 12, 2016
Scale See Map

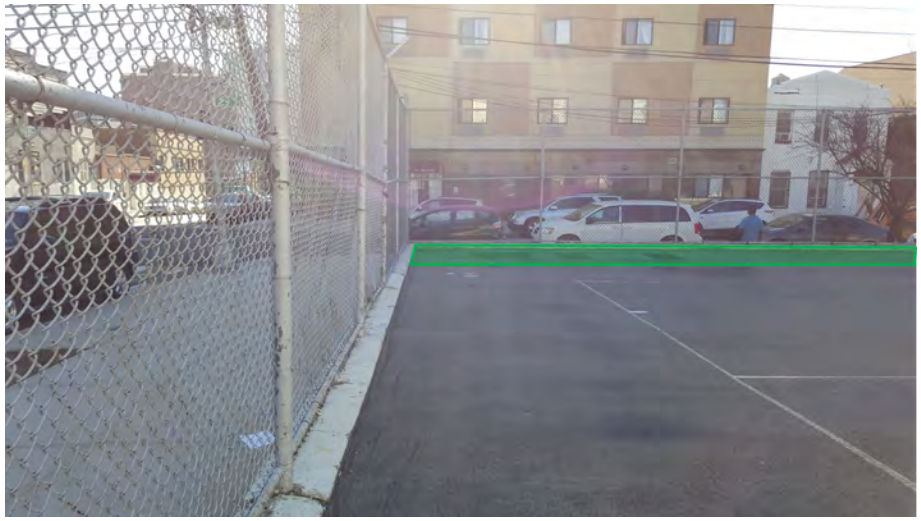
INFORMATION

Survey Area
USTs
Sewer Line

GEOPHYSICAL IMAGES

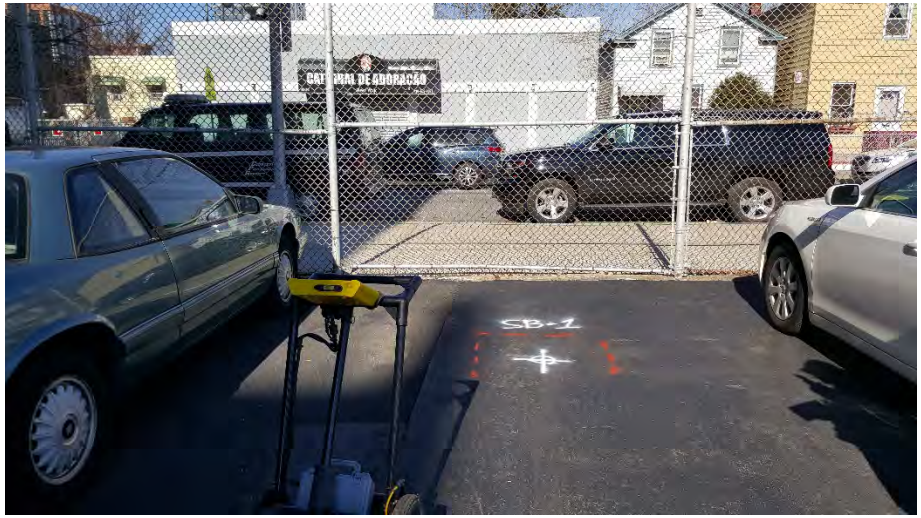
P.S. 450Q
2801 41st Avenue
Long Island City, New York 11101
March 12th, 2016





GEOPHYSICAL IMAGES

P.S. 450Q
2801 41st Avenue
Long Island City, New York 11101
March 12th, 2016



APPENDIX C

ENVIRONMENTAL SAMPLES - LABORATORY ANALYTICAL DATA REPORTS

NEW YORK ENVIRONMENTAL

88 HARBOR ROAD
PORT WASHINGTON, NY 11050
(516) 944-9500 • FAX (516) 944-9507
www.nyenvironmental.com

March 14, 2016

Mr. Raymond Chase
NYC School Construction Authority
Industrial & Environmental Hygiene Dept.
30-30 Thomson Avenue
Long Island City, NY 11101

Re: Academy of American Studies HS (Q451)
Service ID #: 64117, SCA Project ID 104408
Pre-Probe Investigation

Dear Mr. Chase:

On March 10, 2016, New York Environmental performed an asbestos investigation of proposed exterior probe and boring locations at the above referenced site. The investigation was performed at locations that will be impacted by planned probe and boring work indicated on drawings dated February 2016, "Proposed Sampling Locations", Figure 2.

The survey included the investigation of suspect materials that will be impacted by the planned probes. The below table is a summary of the investigators findings.

PROBE#	LOCATION	MATERIAL	RESULTS	NOTES
TRC-SB-1 thru TRC-SB-9 SV-1 thru SV-6 GW-1 thru GW-5 UST-1 thru UST-2	Parking Lot / Play Yard	Asphalt Pavement	No ACM	NYE 2016
	Parking Lot / Play Yard	Asphalt Pavement, Patch	No ACM	NYE 2016
	Parking Lot / Play Yard	White Line Paint on Asphalt Pavement	No ACM	NYE 2016
	Parking Lot / Play Yard	Yellow Line Paint on Asphalt Pavement	No ACM	NYE 2016
	Parking Lot / Play Yard	Asphalt Crack Filler Tar	No ACM	NYE 2016

Note 1: All boring and probe work shown on the "Proposed Sampling Locations" drawing, dated February 2016 and prepared by TRC, may be performed by a general contractor without the presence of a NYC Asbestos Investigator being required.

If you have any questions, or require additional information, please do not hesitate to contact me.

Kurt Bruno
NYC Asbestos Investigator

CITY OF NEW YORK
KURT BRUNO
119961
CERTIFIED ASBESTOS INVESTIGATOR

APPENDIX A

PROBE REQUEST

3/8/16

44938

New York City
School Construction Authority
Industrial and Environmental Hygiene

CONSULTANT
WORK AUTHORIZATION

WA #: 783652 Initial
Date Issued: 03/08/2016
Final WA: No

Initiation Date: 03/08/2016

NY ENVIRONMENTAL & MATERIAL TESTING LABS, INC.
88 HARBOR ROAD
PORT WASHINGTON, NY, 11050
tsang@nyenvironmental.com

Total Amount: $3,050.00
Contract Number: C000014027
Service ID/Service: 64117, ACM Services for IEH HMT
SCA Project ID: 104408 CAPACITY
SCA Project Description: FEASIBILITY STUDY
DOE Auth Const Amt: $51,552,346.00

DOE Work Order No(s):
Comments :

This document shall serve as notice that NY ENVIRONMENTAL & MATERIAL TESTING LABS, INC. is directed immediately to:

Building ID: Q451 Building Name: ACADEMY OF AMERICAN STUD HS AX - Q
Address: 28-04 41ST AVENUE, Queens NY 11101 Boro: Queens Geo District: 30
Custodian: DANIEL DANVERS (718)-392-7132 CQ451@schools.nyc.gov

and perform all necessary environmental-related work in accordance with SCA specifications, all applicable health and safety codes, and as directed by the Industrial and Environmental Hygiene Division. See the attachment to this document for detailed instructions.

Payment requests for work performed shall be prepared and submitted in accordance with the requirements specified within contract documents for contract C000014027 by and between New York City School Construction Authority and NY ENVIRONMENTAL & MATERIAL TESTING LABS, INC.. Payments will be approved only after receipt of a completed Request for Payment form and all appropriate documentation.

NOTE: NO WORK SHALL BE PERFORMED WHILE SCHOOL IS OCCUPIED, UNLESS OTHERWISE AUTHORIZED.

No work shall commence without prior notification to the SCA representative and the school custodian.

Additional Instructions:

Submitted by:	Raymond, Chase	Approved by:	Fosu, Kwame
Telephone:	(718) 472-8515		(718) 472-8512

New York City
School Construction Authority
Industrial and Environmental Hygiene

CONSULTANT
WORK AUTHORIZATION SCOPE

WA #: 783652 Initial
Date Issued: 03/08/2016
Final WA: No

Initiation Date: 03/08/2016

Contract Number: C000014027

Contractor: NY ENVIRONMENTAL & MATERIAL TESTING LABS, INC.

Consultant shall furnish the services described in the areas identified below in accordance with the items of the contract, and will follow all legal requirements.

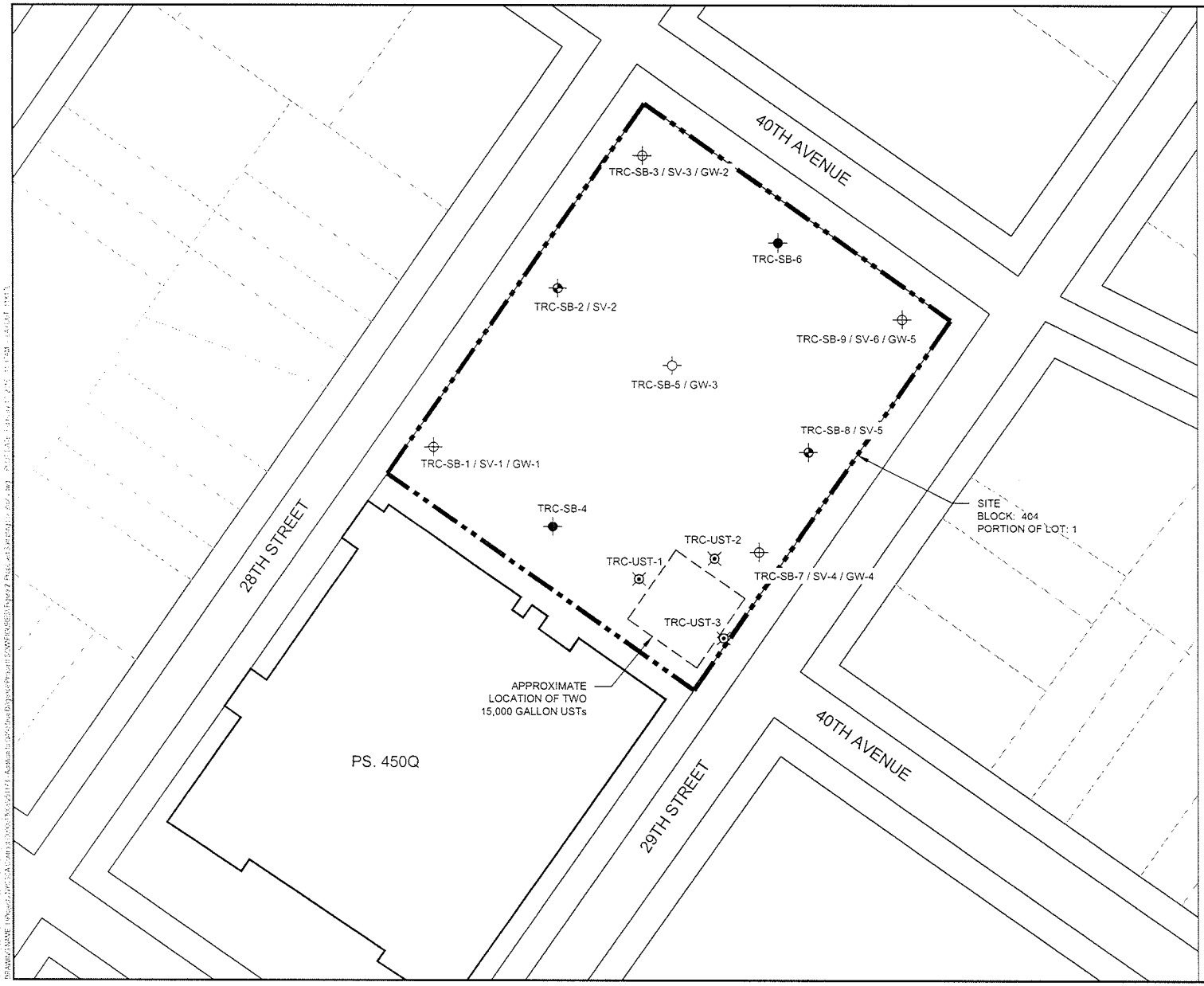
SCA Project ID: 104408 CAPACITY FEASIBILITY STUDY
Expedited: No Sampling Required: No
Project Level:

Work Type	Description	Amount
LAMP01	ACM Probe Survey*	$1,200.00
		Project-Level Total: $1,200.00
		Grand Total: $3,050.00

Building ID: Q451 Building Name: ACADEMY OF AMERICAN STUD HS AX - Q
Address: 28-04 41ST AVENUE, Queens NY 11101 Boro: Queens Geo District: 30

Building Level:

Work Type	Description	MOC	Location	Amount
LAMP31	ACM Field Labor - Bulk Sample Collection	NTE		$1,000.00
LAMP30	ACM Lab Reimbursables	NTE		$500.00
LAMP01	ACM Probe Survey*	FS		$0.00
Deliverable: Pre-Probe Sampling Survey and Clearance Report				
Deliverable: Post-Probe Sampling Survey and Clearance Report				
LCS148	School Permit Fees	NTE		$350.00
				Building-Level Total: $1,850.00



LEGEND:

	SITE BOUNDARY
	LOT BOUNDARY
	BUILDING FOOTPRINT
COMM.	COMMERCIAL
RES.	RESIDENTIAL
TRC-SB-X	PROPOSED SOIL BORING SAMPLE LOCATION AND IDENTIFICATION NUMBER
TRC-SB-X / SV-X	PROPOSED SOIL BORING AND SOIL VAPOR SAMPLE LOCATION AND IDENTIFICATION NUMBER
TRC-SB-X / GW-X	PROPOSED SOIL BORING AND GROUNDWATER SAMPLE LOCATION AND IDENTIFICATION NUMBER
TRC-SB-X / SV-X / GW-X	PROPOSED SOIL BORING, SOIL VAPOR, AND GROUNDWATER SAMPLE LOCATION AND IDENTIFICATION NUMBER
TRC-UST-X	PROPOSED UST BORING LOCATION AND IDENTIFICATION NUMBER

SOURCE:
WWW.PROPERTYSHARK.COM

0 50' 100'

ASSUMED GROUNDWATER FLOW DIRECTION

PROJECT
NEW YORK CITY SCHOOL CONSTRUCTION AUTHORITY
PHASE II ESI SOW - PROPOSED ADDITION TO P.S. 450Q
28-01 41ST AVENUE - BLOCK: 404, PORTION OF LOT: 1
QUEENS, NEW YORK 11101

TITLE
PROPOSED SAMPLING LOCATIONS

DRAWN BY	HD	PROJ. NO.	251178.0000.0000
CHECKED BY	MM		
APPROVED BY	RW		FIGURE 2
DATE	FEBRUARY 2016		

TRC

1430 Broadway
10th Floor
New York, NY 10018
Phone: 212.221.7922

FILE NO. Figure 2 -Proposed Sampling Locations.dwg

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

April 13, 2016

Pat Narea
TRC Engineers, Inc.
1430 Broadway 10th Floor
New York, NY 10018

Project Location: 450Q
Client Job Number:
Project Number: 198908
Laboratory Work Order Number: 16C0970

Enclosed are results of analyses for samples received by the laboratory on March 21, 2016. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Meghan E. Kelley
Project Manager

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16C0970-07 78

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16C0970-09 100

16C0970-10 111

16C0970-11 122

16C0970-12 133

16C0970-13 145

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con-test® ANALYTICAL LABORATORY

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

TRC Engineers, Inc.
1430 Broadway 10th Floor
New York, NY 10018
ATTN: Pat Narea

REPORT DATE: 4/13/2016

PURCHASE ORDER NUMBER: 88278

PROJECT NUMBER: 198908

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 16C0970

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

PROJECT LOCATION: 450Q

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
TRC-UST-1	16C0970-01	Soil		SM 2540G	
				SW-846 8260C	
				SW-846 8270D	
TRC-UST-2	16C0970-02	Soil		SM 2540G	
				SW-846 8260C	
				SW-846 8270D	
TRC-SB-1 (1-3)	16C0970-03	Soil		SM 2540G	
				SW-846 6010C-D	
				SW-846 7471B	
				SW-846 8081B	
				SW-846 8082A	
				SW-846 8151A	
				SW-846 8260C	
				SW-846 8270D	
TRC-SB-1 (10-12)	16C0970-04	Soil		SM 2540G	
				SW-846 1030	
				SW-846 6010C-D	
				SW-846 7196A	
				SW-846 7471B	
				SW-846 8015C	
				SW-846 8081B	
				SW-846 8082A	
				SW-846 8151A	
				SW-846 8260C	
				SW-846 8270D	
				SW-846 9014	
				SW-846 9030A	
				SW-846 9045C	

con-test® ANALYTICAL LABORATORY

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

TRC Engineers, Inc.
1430 Broadway 10th Floor
New York, NY 10018
ATTN: Pat Narea

REPORT DATE: 4/13/2016

PURCHASE ORDER NUMBER: 88278

PROJECT NUMBER: 198908

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 16C0970

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

PROJECT LOCATION: 450Q

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
TRC-SB-2 (1-3)	16C0970-05	Soil		SM 2540G	
				SW-846 1030	
				SW-846 6010C-D	
				SW-846 7196A	
				SW-846 7471B	
				SW-846 8015C	
				SW-846 8081B	
				SW-846 8082A	
				SW-846 8151A	
				SW-846 8260C	
				SW-846 8270D	
				SW-846 9014	
				SW-846 9030A	
				SW-846 9045C	
TRC-SB-2 (10-12)	16C0970-06	Soil		SM 2540G	
				SW-846 6010C-D	
				SW-846 7471B	
				SW-846 8081B	
				SW-846 8082A	
				SW-846 8151A	
				SW-846 8260C	
				SW-846 8270D	
TRC-SB-3 (1-3)	16C0970-07	Soil		SM 2540G	
				SW-846 6010C-D	
				SW-846 7471B	
				SW-846 8081B	
				SW-846 8082A	
				SW-846 8151A	
				SW-846 8260C	
				SW-846 8270D	
TRC-SB-3 (10-12)	16C0970-08	Soil		SM 2540G	
				SW-846 6010C-D	
				SW-846 7471B	
				SW-846 8081B	
				SW-846 8082A	
				SW-846 8151A	
				SW-846 8260C	
				SW-846 8270D	

con-test® ANALYTICAL LABORATORY

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

TRC Engineers, Inc.
1430 Broadway 10th Floor
New York, NY 10018
ATTN: Pat Narea

REPORT DATE: 4/13/2016

PURCHASE ORDER NUMBER: 88278

PROJECT NUMBER: 198908

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 16C0970

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

PROJECT LOCATION: 450Q

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
TRC-SB-4 (1-3)	16C0970-09	Soil		SM 2540G	
				SW-846 6010C-D	
				SW-846 7471B	
				SW-846 8081B	
				SW-846 8082A	
				SW-846 8151A	
				SW-846 8260C	
				SW-846 8270D	
TRC-SB-4 (10-12)	16C0970-10	Soil		SM 2540G	
				SW-846 6010C-D	
				SW-846 7471B	
				SW-846 8081B	
				SW-846 8082A	
				SW-846 8151A	
				SW-846 8260C	
				SW-846 8270D	
TRC-SB-5 (1-3)	16C0970-11	Soil		SM 2540G	
				SW-846 6010C-D	
				SW-846 7471B	
				SW-846 8081B	
				SW-846 8082A	
				SW-846 8151A	
				SW-846 8260C	
				SW-846 8270D	
TRC-SB-5 (10-12)	16C0970-12	Soil		SM 2540G	
				SW-846 1030	
				SW-846 6010C-D	
				SW-846 7196A	
				SW-846 7471B	
				SW-846 8015C	
				SW-846 8081B	
				SW-846 8082A	
				SW-846 8151A	
				SW-846 8260C	
				SW-846 8270D	
				SW-846 9014	
				SW-846 9030A	
				SW-846 9045C	

con-test® ANALYTICAL LABORATORY

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

TRC Engineers, Inc.
1430 Broadway 10th Floor
New York, NY 10018
ATTN: Pat Narea

REPORT DATE: 4/13/2016

PURCHASE ORDER NUMBER: 88278

PROJECT NUMBER: 198908

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 16C0970

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

PROJECT LOCATION: 450Q

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
TRC-SB-6 (1-3)	16C0970-13	Soil		SM 2540G	
				SW-846 1030	
				SW-846 6010C-D	
				SW-846 7196A	
				SW-846 7471B	
				SW-846 8015C	
				SW-846 8081B	
				SW-846 8082A	
				SW-846 8151A	
				SW-846 8260C	
				SW-846 8270D	
				SW-846 9014	
				SW-846 9030A	
				SW-846 9045C	
TRC-SB-6 (10-12)	16C0970-14	Soil		SM 2540G	
				SW-846 6010C-D	
				SW-846 7471B	
				SW-846 8081B	
				SW-846 8082A	
				SW-846 8151A	
				SW-846 8260C	
				SW-846 8270D	
TRC-SB-7 (1-3)	16C0970-15	Soil		SM 2540G	
				SW-846 6010C-D	
				SW-846 7471B	
				SW-846 8081B	
				SW-846 8082A	
				SW-846 8151A	
				SW-846 8260C	
				SW-846 8270D	

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TRC Engineers, Inc.
1430 Broadway 10th Floor
New York, NY 10018
ATTN: Pat Narea

REPORT DATE: 4/13/2016

PURCHASE ORDER NUMBER: 88278

PROJECT NUMBER: 198908

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 16C0970

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

PROJECT LOCATION: 450Q

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
TRC-SB-7 (10-12)	16C0970-16	Soil		SM 2540G	
				SW-846 1030	
				SW-846 6010C-D	
				SW-846 7196A	
				SW-846 7471B	
				SW-846 8015C	
				SW-846 8081B	
				SW-846 8082A	
				SW-846 8151A	
				SW-846 8260C	
				SW-846 8270D	
				SW-846 9014	
				SW-846 9030A	
				SW-846 9045C	
TRC-SB-8 (1-3)	16C0970-17	Soil		SM 2540G	
				SW-846 6010C-D	
				SW-846 7471B	
				SW-846 8081B	
				SW-846 8082A	
				SW-846 8151A	
				SW-846 8260C	
				SW-846 8270D	
TRC-SB-8 (10-12)	16C0970-18	Soil		SM 2540G	
				SW-846 6010C-D	
				SW-846 7471B	
				SW-846 8081B	
				SW-846 8082A	
				SW-846 8151A	
				SW-846 8260C	
				SW-846 8270D	
TRC-SB-9 (1-3)	16C0970-19	Soil		SM 2540G	
				SW-846 6010C-D	
				SW-846 7471B	
				SW-846 8081B	
				SW-846 8082A	
				SW-846 8151A	
				SW-846 8260C	
				SW-846 8270D	

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TRC-SB-9 (10-12)	16C0970-20	Soil		SM 2540G	
				SW-846 6010C-D	
				SW-846 7471B	
				SW-846 8081B	
				SW-846 8082A	
				SW-846 8151A	
				SW-846 8260C	
				SW-846 8270D	
DUP-1	16C0970-21	Soil		SM 2540G	
				SW-846 6010C-D	
				SW-846 7471B	
				SW-846 8081B	
				SW-846 8082A	
				SW-846 8151A	
				SW-846 8260C	
				SW-846 8270D	
TRC-GW-1	16C0970-22	Ground Water		SW-846 6010C-D	
				SW-846 6020A-B	
				SW-846 7470A	
				SW-846 8260C	
				SW-846 8270D	
TRC-GW-3	16C0970-23	Ground Water		SW-846 6010C-D	
				SW-846 6020A-B	
				SW-846 7470A	
				SW-846 8260C	
				SW-846 8270D	
TRC-GW-4	16C0970-24	Ground Water		SW-846 6010C-D	
				SW-846 6020A-B	
				SW-846 7470A	
				SW-846 8260C	
				SW-846 8270D	

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REPORT DATE: 4/13/2016

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ANALYTICAL SUMMARY

WORK ORDER NUMBER: 16C0970

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PROJECT LOCATION: 450Q

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
TRC-GW-5	16C0970-25	Ground Water		EPA 1664B	
				EPA 420.1	
				EPA 608	
				EPA 624	
				SM 21-22 4500 NO3 F	
				SM19-22 4500-N Org B,C-NH3 C	
				SM21-22 2540B	
				SM21-22 2540D	
				SM21-22 4500 CL B	
				SM21-22 5210B	
				SW-846 1010A	
				SW-846 6010C-D	
				SW-846 6020A-B	
				SW-846 7196A	
				SW-846 7470A	
				SW-846 8260C	
				SW-846 8270D	
Trip Blank Water	16C0970-26	Trip Blank Water		SW-846 8260C	
Trip Blank Soil	16C0970-27	Trip Blank Soil		SW-846 8260C	

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CASE NARRATIVE SUMMARY

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

REVISED REPORT - 4/13/2016 - TPH 1664 reported on sample 16C0970-25.

For method 8151, samples 16C0970-03- 12 were derivatized on 03/23/16.

For method 8151, samples 13-21 were derivatized on 03/24/16.

For method 8151, sample analysis bracketed by LCS to monitor esterification. All recoveries in the bracketing LCS met method criteria.

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EPA 420.1

Qualifications:

R-04

Duplicate relative percent difference (RPD) is a less useful indicator of sample precision for sample results that are <5 times the reporting limit (RL).

Analyte & Samples(s) Qualified:

Phenol
16C0970-25[TRC-GW-5], B144880-DUP1

EPA 608

Qualifications:

V-06

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

Analyte & Samples(s) Qualified:

Aroclor-1016 [2C]
B144972-BS1, B144972-BSD1

SM21-22 2540B

Qualifications:

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:

Total Solids
16C0970-25[TRC-GW-5], B144983-DUP1

SM21-22 5210B

Qualifications:

H-09

Sample received by laboratory with insufficient time remaining to perform analysis within the recommended holding time.

Analyte & Samples(s) Qualified:

Carbonaceous BOD
16C0970-25[TRC-GW-5]

SW-846 6010C-D

Qualifications:

L-07

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

Analyte & Samples(s) Qualified:

Barium
B144825-BS1

Cobalt
B144825-BS1

Copper
B144825-BS1

Lead
B144825-BS1

Manganese
B144825-BS1

Nickel
B144825-BS1

MS-07

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

Analyte & Samples(s) Qualified:

Antimony
16C0970-03[TRC-SB-1 (1-3)], B144837-MS1

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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:

Aluminum
16C0970-03[TRC-SB-1 (1-3)], B144837-MS1

Barium
16C0970-03[TRC-SB-1 (1-3)], B144837-MS1

Calcium
16C0970-03[TRC-SB-1 (1-3)], B144837-MS1

Iron
16C0970-03[TRC-SB-1 (1-3)], B144837-MS1

Lead
16C0970-03[TRC-SB-1 (1-3)], B144837-MS1

Magnesium
16C0970-03[TRC-SB-1 (1-3)], B144837-MS1

Manganese
16C0970-03[TRC-SB-1 (1-3)], B144837-MS1

Sodium
16C0970-23RE1[TRC-GW-3], B145355-MS1

Zinc
16C0970-03[TRC-SB-1 (1-3)], B144837-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
16C0970-03[TRC-SB-1 (1-3)], B144837-DUP1

SW-846 6020A-B

Qualifications:

MS-07

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

Analyte & Samples(s) Qualified:

Barium
16C0970-22[TRC-GW-1], B145179-MS1

Copper
16C0970-22[TRC-GW-1], B145179-MS1

Zinc
16C0970-22[TRC-GW-1], B145179-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:

Manganese
16C0970-22[TRC-GW-1], B145179-MS1

R-04

Duplicate relative percent difference (RPD) is a less useful indicator of sample precision for sample results that are <5 times the reporting limit (RL).

Analyte & Samples(s) Qualified:

Arsenic
16C0970-22[TRC-GW-1], B145179-DUP1

SW-846 7196A

Qualifications:

DL-03

Elevated reporting limit due to matrix.

Analyte & Samples(s) Qualified:

Hexavalent Chromium
16C0970-05[TRC-SB-2 (1-3)]

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H-03

Sample received after recommended holding time was exceeded.

Analyte & Samples(s) Qualified:

Hexavalent Chromium
16C0970-25[TRC-GW-5]

SW-846 8015C

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
16C0970-05[TRC-SB-2 (1-3)], 16C0970-13[TRC-SB-6 (1-3)]

SW-846 8081B

Qualifications:

P-01

Result was confirmed using a dissimilar column. Relative percent difference between the two results was >40%. In accordance with the method, the higher result was reported.

Analyte & Samples(s) Qualified:

4,4'-DDE
16C0970-05[TRC-SB-2 (1-3)], 16C0970-07[TRC-SB-3 (1-3)], 16C0970-13[TRC-SB-6 (1-3)], 16C0970-21[DUP-1]

4,4'-DDT
16C0970-03[TRC-SB-1 (1-3)], 16C0970-04[TRC-SB-1 (10-12)], 16C0970-07[TRC-SB-3 (1-3)], 16C0970-15[TRC-SB-7 (1-3)], 16C0970-17[TRC-SB-8 (1-3)]

beta-BHC [2C]
16C0970-13[TRC-SB-6 (1-3)], 16C0970-15[TRC-SB-7 (1-3)]

Endosulfan II [2C]
16C0970-03[TRC-SB-1 (1-3)], 16C0970-17[TRC-SB-8 (1-3)]

Endosulfan Sulfate [2C]
16C0970-03[TRC-SB-1 (1-3)]

Endrin Aldehyde
16C0970-15[TRC-SB-7 (1-3)]

Hexachlorobenzene
16C0970-08[TRC-SB-3 (10-12)]

P-02

Sample RPD between primary and confirmatory analysis exceeded 40%. Per EPA method 8000, the lower value was reported due to obvious chromatographic interference on the column with the higher result.

Analyte & Samples(s) Qualified:

4,4'-DDT
16C0970-19[TRC-SB-9 (1-3)]

Endrin
16C0970-19[TRC-SB-9 (1-3)]

P-05

Sample RPD between primary and confirmatory analysis exceeded 100%. The higher of two results was reported.

Analyte & Samples(s) Qualified:

4,4'-DDD
16C0970-05[TRC-SB-2 (1-3)], 16C0970-15[TRC-SB-7 (1-3)]

4,4'-DDT
16C0970-05[TRC-SB-2 (1-3)]

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P-08

Sample RPD between primary and confirmatory analysis exceeded 100%. Per EPA method 8000, the lower value was reported due to obvious chromatographic interference on the column with the higher result.

Analyte & Samples(s) Qualified:

4,4'-DDD [2C]
16C0970-03[TRC-SB-1 (1-3)], 16C0970-04[TRC-SB-1 (10-12)], 16C0970-07[TRC-SB-3 (1-3)]

Dieldrin
16C0970-15[TRC-SB-7 (1-3)]

Endosulfan II
16C0970-05[TRC-SB-2 (1-3)], 16C0970-15[TRC-SB-7 (1-3)]

Hexachlorobenzene [2C]
16C0970-14[TRC-SB-6 (10-12)]

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:

delta-BHC
16C0970-03[TRC-SB-1 (1-3)], B144813-MS1, B144813-MSD1

delta-BHC [2C]
16C0970-03[TRC-SB-1 (1-3)], B144813-MS1, B144813-MSD1

Endosulfan I
16C0970-03[TRC-SB-1 (1-3)], B144813-MS1, B144813-MSD1

Endosulfan I [2C]
16C0970-03[TRC-SB-1 (1-3)], B144813-MS1, B144813-MSD1

Endosulfan II
16C0970-03[TRC-SB-1 (1-3)], B144813-MS1, B144813-MSD1

Endosulfan II [2C]
16C0970-03[TRC-SB-1 (1-3)], B144813-MS1, B144813-MSD1

S-02

The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.

Analyte & Samples(s) Qualified:

Decachlorobiphenyl [2C]
16C0970-05[TRC-SB-2 (1-3)]

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:

Chlordane
B144813-BLK1

V-06

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

Analyte & Samples(s) Qualified:

4,4'-DDD [2C]
16C0970-03[TRC-SB-1 (1-3)], 16C0970-04[TRC-SB-1 (10-12)], 16C0970-07[TRC-SB-3 (1-3)], 16C0970-17[TRC-SB-8 (1-3)], B144813-MS1, B144813-MSD1

4,4'-DDE [2C]
B144813-MS1, B144813-MSD1

4,4'-DDT [2C]
B144813-MS1, B144813-MSD1

Endosulfan Sulfate [2C]
16C0970-03[TRC-SB-1 (1-3)], B144813-MS1, B144813-MSD1

Endrin [2C]
B144813-MS1, B144813-MSD1

Endrin Aldehyde [2C]
B144813-MS1, B144813-MSD1

Endrin Ketone [2C]
B144813-MS1, B144813-MSD1

Methoxychlor [2C]
B144813-MS1, B144813-MSD1

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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:

4,4'-DDD [2C]

16C0970-06[TRC-SB-2 (10-12)], 16C0970-08[TRC-SB-3 (10-12)], 16C0970-09[TRC-SB-4 (1-3)], 16C0970-10[TRC-SB-4 (10-12)], 16C0970- 11[TRC-SB-5 (1-3)], 16C0970-12[TRC-SB-5 (10-12)], 16C0970-13[TRC-SB-6 (1-3)], 16C0970-18[TRC-SB-8 (10-12)], 16C0970-20[TRC-SB-9 (10-12)], 16C0970-21[DUP-1]

4,4'-DDE [2C]

16C0970-17[TRC-SB-8 (1-3)]

4,4'-DDT [2C]

16C0970-20[TRC-SB-9 (10-12)]

V-24

Continuing calibration verification was outside of control limits on the confirmation column, but within control limits on the primary column. All sample results are reported from the column within control criteria.

Analyte & Samples(s) Qualified:

4,4'-DDD

16C0970-05[TRC-SB-2 (1-3)], 16C0970-15[TRC-SB-7 (1-3)]

4,4'-DDE

16C0970-05[TRC-SB-2 (1-3)], 16C0970-07[TRC-SB-3 (1-3)], 16C0970-13[TRC-SB-6 (1-3)], 16C0970-19[TRC-SB-9 (1-3)], 16C0970-21[DUP-1]

4,4'-DDT

16C0970-03[TRC-SB-1 (1-3)], 16C0970-04[TRC-SB-1 (10-12)], 16C0970-05[TRC-SB-2 (1-3)], 16C0970-07[TRC-SB-3 (1-3)], 16C0970-15[TRC-SB-7 (1-3)], 16C0970-17[TRC-SB-8 (1-3)], 16C0970-19[TRC-SB-9 (1-3)]

Endrin

16C0970-17[TRC-SB-8 (1-3)], 16C0970-19[TRC-SB-9 (1-3)]

Endrin Aldehyde

16C0970-15[TRC-SB-7 (1-3)]

SW-846 8151A

Qualifications:

DL-03

Elevated reporting limit due to matrix.

Analyte & Samples(s) Qualified:

16C0970-03[TRC-SB-1 (1-3)]

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:

2,4-Dichlorophenylacetic acid

16C0970-03[TRC-SB-1 (1-3)]

2,4-Dichlorophenylacetic acid [2C]

16C0970-03[TRC-SB-1 (1-3)]

V-06

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

Analyte & Samples(s) Qualified:

2,4,5-TP (Silvex)

B144820-MS1, B144820-MSD1

Dalapon

B144820-MS1, B144820-MSD1

Dalapon [2C]

B144820-BS1, B144820-BSD1, B144820-MS1, B144820-MSD1, B144886-BS1, B144886-BSD1

Dicamba

B144820-MS1, B144820-MSD1

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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:

Dalapon

16C0970-03[TRC-SB-1 (1-3)], 16C0970-04[TRC-SB-1 (10-12)], 16C0970-05[TRC-SB-2 (1-3)], 16C0970-06[TRC-SB-2 (10-12)], 16C0970-07[TRC-SB-3 (1-3)], 16C0970-08[TRC-SB-3 (10-12)], 16C0970-09[TRC-SB-4 (1-3)], 16C0970-10[TRC-SB-4 (10-12)], 16C0970- 11[TRC-SB-5 (1-3)], 16C0970-12[TRC-SB-5 (10-12)], 16C0970-13[TRC-SB-6 (1-3)], 16C0970-14[TRC-SB-6 (10-12)], 16C0970-15[TRC-SB-7 (1-3)], 16C0970-16[TRC-SB-7 (10-12)], 16C0970-17[TRC-SB-8 (1-3)], 16C0970-18[TRC-SB-8 (10-12)], 16C0970-19[TRC-SB-9 (1-3)], 16C0970-20[TRC-SB-9 (10-12)], 16C0970-21[DUP-1]

Dalapon [2C]

16C0970-03[TRC-SB-1 (1-3)], 16C0970-04[TRC-SB-1 (10-12)], 16C0970-05[TRC-SB-2 (1-3)], 16C0970-06[TRC-SB-2 (10-12)], 16C0970-07[TRC-SB-3 (1-3)], 16C0970-08[TRC-SB-3 (10-12)], 16C0970-09[TRC-SB-4 (1-3)], 16C0970-10[TRC-SB-4 (10-12)], 16C0970- 11[TRC-SB-5 (1-3)], 16C0970-12[TRC-SB-5 (10-12)], 16C0970-13[TRC-SB-6 (1-3)], 16C0970-14[TRC-SB-6 (10-12)], 16C0970-15[TRC-SB-7 (1-3)], 16C0970-16[TRC-SB-7 (10-12)], 16C0970-17[TRC-SB-8 (1-3)], 16C0970-18[TRC-SB-8 (10-12)], 16C0970-19[TRC-SB-9 (1-3)], 16C0970-20[TRC-SB-9 (10-12)], 16C0970-21[DUP-1]

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:

Tetrachloroethylene

B144930-BS1, B144930-BSD1, B144944-BS1, B144944-BSD1

L-04

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

Analyte & Samples(s) Qualified:

Chloromethane

16C0970-03[TRC-SB-1 (1-3)], 16C0970-04[TRC-SB-1 (10-12)], 16C0970-05[TRC-SB-2 (1-3)], 16C0970-06[TRC-SB-2 (10-12)], 16C0970-07[TRC-SB-3 (1-3)], 16C0970-08[TRC-SB-3 (10-12)], 16C0970-09[TRC-SB-4 (1-3)], 16C0970-10[TRC-SB-4 (10-12)], 16C0970- 11[TRC-SB-5 (1-3)], 16C0970-12[TRC-SB-5 (10-12)], 16C0970-13[TRC-SB-6 (1-3)], 16C0970-14[TRC-SB-6 (10-12)], 16C0970-15[TRC-SB-7 (1-3)], 16C0970-16[TRC-SB-7 (10-12)], 16C0970-17[TRC-SB-8 (1-3)], 16C0970-18[TRC-SB-8 (10-12)], 16C0970-19[TRC-SB-9 (1-3)], 16C0970-20[TRC-SB-9 (10-12)], 16C0970-21[DUP-1], 16C0970-27[Trip Blank Soil], B144930-BLK1, B144930-BS1, B144930-BSD1, B144944-BLK1, B144944-BS1, B144944-BSD1, B144969-BLK1, B144969-BS1, B144969-BSD1

Methyl Acetate

16C0970-17[TRC-SB-8 (1-3)], B144969-BLK1, B144969-BS1, B144969-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:

Methyl Acetate

B144944-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:

Acetone

B144969-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-Butanone (MEK)

16C0970-17[TRC-SB-8 (1-3)], B144969-BLK1, B144969-BS1, B144969-BSD1

2-Hexanone (MBK)

16C0970-17[TRC-SB-8 (1-3)], B144969-BLK1, B144969-BS1, B144969-BSD1

Acetone

16C0970-17[TRC-SB-8 (1-3)], B144969-BLK1, B144969-BS1, B144969-BSD1

Bromomethane

16C0970-22[TRC-GW-1], 16C0970-23[TRC-GW-3], 16C0970-24[TRC-GW-4], 16C0970-25[TRC-GW-5], 16C0970-26[Trip Blank Water], B145017-BLK1, B145017-BS1, B145017-BSD1

Dichlorodifluoromethane (Freon 1

16C0970-15[TRC-SB-7 (1-3)], 16C0970-16[TRC-SB-7 (10-12)], 16C0970-18[TRC-SB-8 (10-12)], 16C0970-19[TRC-SB-9 (1-3)], 16C0970-20[TRC-SB-9 (10-12)], 16C0970-21[DUP-1], 16C0970-27[Trip Blank Soil], B144944-BLK1, B144944-BS1, B144944-BSD1

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V-05

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

Analyte & Samples(s) Qualified:

1,2-Dibromo-3-chloropropane (DB
16C0970-22[TRC-GW-1], 16C0970-23[TRC-GW-3], 16C0970-24[TRC-GW-4], 16C0970-25[TRC-GW-5], 16C0970-26[Trip Blank Water], B145017-BLK1, B145017-BS1, B145017-BSD1

2-Butanone (MEK)
16C0970-15[TRC-SB-7 (1-3)], 16C0970-16[TRC-SB-7 (10-12)], 16C0970-18[TRC-SB-8 (10-12)], 16C0970-19[TRC-SB-9 (1-3)], 16C0970-20[TRC-SB-9 (10-12)], 16C0970-21[DUP-1], 16C0970-27[Trip Blank Soil], B144944-BLK1, B144944-BS1, B144944-BSD1

Chloromethane
16C0970-03[TRC-SB-1 (1-3)], 16C0970-04[TRC-SB-1 (10-12)], 16C0970-05[TRC-SB-2 (1-3)], 16C0970-06[TRC-SB-2 (10-12)], 16C0970-07[TRC-SB-3 (1-3)], 16C0970-08[TRC-SB-3 (10-12)], 16C0970-09[TRC-SB-4 (1-3)], 16C0970-10[TRC-SB-4 (10-12)], 16C0970- 11[TRC-SB-5 (1-3)], 16C0970-12[TRC-SB-5 (10-12)], 16C0970-13[TRC-SB-6 (1-3)], 16C0970-14[TRC-SB-6 (10-12)], 16C0970-15[TRC-SB-7 (1-3)], 16C0970-16[TRC-SB-7 (10-12)], 16C0970-17[TRC-SB-8 (1-3)], 16C0970-18[TRC-SB-8 (10-12)], 16C0970-19[TRC-SB-9 (1-3)], 16C0970-20[TRC-SB-9 (10-12)], 16C0970-21[DUP-1], 16C0970-27[Trip Blank Soil], B144930-BLK1, B144930-BS1, B144930-BSD1, B144944-BLK1, B144944-BS1, B144944-BSD1, B144969-BLK1, B144969-BS1, B144969-BSD1

Cyclohexane
16C0970-03[TRC-SB-1 (1-3)], 16C0970-04[TRC-SB-1 (10-12)], 16C0970-05[TRC-SB-2 (1-3)], 16C0970-06[TRC-SB-2 (10-12)], 16C0970-07[TRC-SB-3 (1-3)], 16C0970-08[TRC-SB-3 (10-12)], 16C0970-09[TRC-SB-4 (1-3)], 16C0970-10[TRC-SB-4 (10-12)], 16C0970- 11[TRC-SB-5 (1-3)], 16C0970-12[TRC-SB-5 (10-12)], 16C0970-13[TRC-SB-6 (1-3)], 16C0970-14[TRC-SB-6 (10-12)], 16C0970-15[TRC-SB-7 (1-3)], 16C0970-16[TRC-SB-7 (10-12)], 16C0970-17[TRC-SB-8 (1-3)], 16C0970-18[TRC-SB-8 (10-12)], 16C0970-19[TRC-SB-9 (1-3)], 16C0970-20[TRC-SB-9 (10-12)], 16C0970-21[DUP-1], 16C0970-27[Trip Blank Soil], B144930-BLK1, B144930-BS1, B144930-BSD1, B144944-BLK1, B144944-BS1, B144944-BSD1, B144969-BLK1, B144969-BS1, B144969-BSD1

Methyl Acetate
16C0970-03[TRC-SB-1 (1-3)], 16C0970-04[TRC-SB-1 (10-12)], 16C0970-05[TRC-SB-2 (1-3)], 16C0970-06[TRC-SB-2 (10-12)], 16C0970-07[TRC-SB-3 (1-3)], 16C0970-08[TRC-SB-3 (10-12)], 16C0970-09[TRC-SB-4 (1-3)], 16C0970-10[TRC-SB-4 (10-12)], 16C0970- 11[TRC-SB-5 (1-3)], 16C0970-12[TRC-SB-5 (10-12)], 16C0970-13[TRC-SB-6 (1-3)], 16C0970-14[TRC-SB-6 (10-12)], 16C0970-15[TRC-SB-7 (1-3)], 16C0970-16[TRC-SB-7 (10-12)], 16C0970-17[TRC-SB-8 (1-3)], 16C0970-18[TRC-SB-8 (10-12)], 16C0970-19[TRC-SB-9 (1-3)], 16C0970-20[TRC-SB-9 (10-12)], 16C0970-21[DUP-1], 16C0970-27[Trip Blank Soil], B144930-BLK1, B144930-BS1, B144930-BSD1, B144944-BLK1, B144944-BS1, B144944-BSD1, B144969-BLK1, B144969-BS1, B144969-BSD1

Methylene Chloride
16C0970-03[TRC-SB-1 (1-3)], 16C0970-04[TRC-SB-1 (10-12)], 16C0970-05[TRC-SB-2 (1-3)], 16C0970-06[TRC-SB-2 (10-12)], 16C0970-07[TRC-SB-3 (1-3)], 16C0970-08[TRC-SB-3 (10-12)], 16C0970-09[TRC-SB-4 (1-3)], 16C0970-10[TRC-SB-4 (10-12)], 16C0970- 11[TRC-SB-5 (1-3)], 16C0970-12[TRC-SB-5 (10-12)], 16C0970-13[TRC-SB-6 (1-3)], 16C0970-14[TRC-SB-6 (10-12)], 16C0970-15[TRC-SB-7 (1-3)], 16C0970-16[TRC-SB-7 (10-12)], 16C0970-17[TRC-SB-8 (1-3)], 16C0970-18[TRC-SB-8 (10-12)], 16C0970-19[TRC-SB-9 (1-3)], 16C0970-20[TRC-SB-9 (10-12)], 16C0970-21[DUP-1], 16C0970-27[Trip Blank Soil], B144930-BLK1, B144930-BS1, B144930-BSD1, B144944-BLK1, B144944-BS1, B144944-BSD1, B144969-BLK1, B144969-BS1, B144969-BSD1

Naphthalene
16C0970-01[TRC-UST-1], 16C0970-02[TRC-UST-2], B144935-BLK1, B144935-BS1, B144935-BSD1

trans-1,3-Dichloropropene
16C0970-22[TRC-GW-1], 16C0970-23[TRC-GW-3], 16C0970-24[TRC-GW-4], 16C0970-25[TRC-GW-5], 16C0970-26[Trip Blank Water], B145017-BLK1, B145017-BS1, B145017-BSD1

V-20

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

Analyte & Samples(s) Qualified:

1,2-Dichloroethane
B144930-BS1, B144930-BSD1, B144969-BS1, B144969-BSD1

Bromodichloromethane
B144969-BS1, B144969-BSD1

Chlorodibromomethane
B144969-BS1, B144969-BSD1

Tetrachloroethylene
B144944-BS1, B144944-BSD1, B144969-BS1, B144969-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:

Caprolactam
16C0970-22[TRC-GW-1], 16C0970-23[TRC-GW-3], 16C0970-24[TRC-GW-4], 16C0970-25[TRC-GW-5], B145282-BLK1, B145282-BS1, B145282-BSD1, B145335-BLK1, B145335-BS1, B145335-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:

2,4-Dinitrophenol
B144868-BSD1

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MS-09

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

Analyte & Samples(s) Qualified:

Hexachlorocyclopentadiene
16C0970-07[TRC-SB-3 (1-3)], B144868-MS1, B144868-MSD1

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:

2,4-Dinitrophenol
B144868-MS1

4,6-Dinitro-2-methylphenol
B144868-MS1

Benzo(a)anthracene
B144868-MS1

Benzo(b)fluoranthene
B144868-MS1

Chrysene
B144868-MS1

Fluoranthene
B144868-MS1

Phenanthrene
B144868-MS1

Pyrene
B144868-MS1

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-Chlorophenol
16C0970-22[TRC-GW-1], 16C0970-23[TRC-GW-3], 16C0970-24[TRC-GW-4], B144867-BLK1, B144867-BS1, B144867-BSD1

2-Methylphenol
16C0970-22[TRC-GW-1], 16C0970-23[TRC-GW-3], 16C0970-24[TRC-GW-4], B144867-BLK1, B144867-BS1, B144867-BSD1

3/4-Methylphenol
16C0970-22[TRC-GW-1], 16C0970-23[TRC-GW-3], 16C0970-24[TRC-GW-4], B144867-BLK1, B144867-BS1, B144867-BSD1

4-Chloroaniline
16C0970-22[TRC-GW-1], 16C0970-23[TRC-GW-3], 16C0970-24[TRC-GW-4], B144867-BLK1, B144867-BS1, B144867-BSD1

Acetophenone
16C0970-22[TRC-GW-1], 16C0970-23[TRC-GW-3], 16C0970-24[TRC-GW-4], B144867-BLK1, B144867-BS1, B144867-BSD1

Benzaldehyde
16C0970-22[TRC-GW-1], 16C0970-23[TRC-GW-3], 16C0970-24[TRC-GW-4], B145282-BLK1, B145282-BS1, B145282-BSD1

Bis(2-chloroethyl)ether
16C0970-22[TRC-GW-1], 16C0970-23[TRC-GW-3], 16C0970-24[TRC-GW-4], B144867-BLK1, B144867-BS1, B144867-BSD1

Bis(2-chloroisopropyl)ether
16C0970-22[TRC-GW-1], 16C0970-23[TRC-GW-3], 16C0970-24[TRC-GW-4], B144867-BLK1, B144867-BS1, B144867-BSD1

Caprolactam
16C0970-22[TRC-GW-1], 16C0970-23[TRC-GW-3], 16C0970-24[TRC-GW-4], B145282-BLK1, B145282-BS1, B145282-BSD1

Hexachlorobutadiene
16C0970-22[TRC-GW-1], 16C0970-23[TRC-GW-3], 16C0970-24[TRC-GW-4], B144867-BLK1, B144867-BS1, B144867-BSD1

N-Nitrosodi-n-propylamine
16C0970-22[TRC-GW-1], 16C0970-23[TRC-GW-3], 16C0970-24[TRC-GW-4], B144867-BLK1, B144867-BS1, B144867-BSD1

Phenol
16C0970-22[TRC-GW-1], 16C0970-23[TRC-GW-3], 16C0970-24[TRC-GW-4], B144867-BLK1, B144867-BS1, B144867-BSD1

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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:

2,4-Dinitrophenol
16C0970-07[TRC-SB-3 (1-3)], B144868-MSD1

4,6-Dinitro-2-methylphenol
16C0970-07[TRC-SB-3 (1-3)], B144868-MSD1

Anthracene
16C0970-07[TRC-SB-3 (1-3)], B144868-MS1, B144868-MSD1

Benzo(a)anthracene
16C0970-07[TRC-SB-3 (1-3)], B144868-MSD1

Benzo(a)pyrene
16C0970-07[TRC-SB-3 (1-3)], B144868-MS1, B144868-MSD1

Benzo(b)fluoranthene
16C0970-07[TRC-SB-3 (1-3)], B144868-MSD1

Benzo(g,h,i)perylene
16C0970-07[TRC-SB-3 (1-3)], B144868-MS1, B144868-MSD1

Benzo(k)fluoranthene
16C0970-07[TRC-SB-3 (1-3)], B144868-MS1, B144868-MSD1

Chrysene
16C0970-07[TRC-SB-3 (1-3)], B144868-MSD1

Fluoranthene
B144868-MSD1

Hexachlorocyclopentadiene
16C0970-07[TRC-SB-3 (1-3)], B144868-MS1, B144868-MSD1

Indeno(1,2,3-cd)pyrene
16C0970-07[TRC-SB-3 (1-3)], B144868-MS1, B144868-MSD1

Phenanthrene
16C0970-07[TRC-SB-3 (1-3)], B144868-MSD1

Pyrene
16C0970-07RE1[TRC-SB-3 (1-3)], B144868-MSD1

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
B145282-BLK1, B145282-BS1, B145282-BSD1

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V-05

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

Analyte & Samples(s) Qualified:

Benzo(g,h,i)perylene
16C0970-03[TRC-SB-1 (1-3)], 16C0970-04[TRC-SB-1 (10-12)], 16C0970-05[TRC-SB-2 (1-3)], 16C0970-06[TRC-SB-2 (10-12)], 16C0970-07[TRC-SB-3 (1-3)], 16C0970-08[TRC-SB-3 (10-12)], 16C0970-09[TRC-SB-4 (1-3)], 16C0970-10[TRC-SB-4 (10-12)], 16C0970- 11[TRC-SB-5 (1-3)], B144868-BLK1, B144868-BS1, B144868-BSD1, B144868-MS1, B144868-MSD1

Dibenz(a,h)anthracene
16C0970-03[TRC-SB-1 (1-3)], 16C0970-04[TRC-SB-1 (10-12)], 16C0970-05[TRC-SB-2 (1-3)], 16C0970-06[TRC-SB-2 (10-12)], 16C0970-07[TRC-SB-3 (1-3)], 16C0970-08[TRC-SB-3 (10-12)], 16C0970-09[TRC-SB-4 (1-3)], 16C0970-10[TRC-SB-4 (10-12)], 16C0970- 11[TRC-SB-5 (1-3)], B144868-BLK1, B144868-BS1, B144868-BSD1, B144868-MS1, B144868-MSD1

Hexachlorobenzene
16C0970-22[TRC-GW-1], 16C0970-23[TRC-GW-3], 16C0970-24[TRC-GW-4], B144867-BLK1, B144867-BS1, B144867-BSD1

Hexachlorocyclopentadiene
16C0970-03[TRC-SB-1 (1-3)], 16C0970-04[TRC-SB-1 (10-12)], 16C0970-05[TRC-SB-2 (1-3)], 16C0970-06[TRC-SB-2 (10-12)], 16C0970-07[TRC-SB-3 (1-3)], 16C0970-08[TRC-SB-3 (10-12)], 16C0970-09[TRC-SB-4 (1-3)], 16C0970-10[TRC-SB-4 (10-12)], 16C0970- 11[TRC-SB-5 (1-3)], 16C0970-12[TRC-SB-5 (10-12)], 16C0970-13[TRC-SB-6 (1-3)], 16C0970-14[TRC-SB-6 (10-12)], 16C0970-15[TRC-SB-7 (1-3)], 16C0970-16[TRC-SB-7 (10-12)], 16C0970-17[TRC-SB-8 (1-3)], 16C0970-18[TRC-SB-8 (10-12)], 16C0970-19[TRC-SB-9 (1-3)], 16C0970-20[TRC-SB-9 (10-12)], 16C0970-21[DUP-1], 16C0970-22[TRC-GW-1], 16C0970-23[TRC-GW-3], 16C0970-24[TRC-GW-4], 16C0970-25[TRC-GW-5], B144867-BLK1, B144867-BS1, B144867-BSD1, B144868-BLK1, B144868-BS1, B144868-BSD1, B144868-MS1, B144868-MSD1, B145126-BLK1, B145126-BS1, B145126-BSD1

Indeno(1,2,3-cd)pyrene
16C0970-03[TRC-SB-1 (1-3)], 16C0970-04[TRC-SB-1 (10-12)], 16C0970-05[TRC-SB-2 (1-3)], 16C0970-06[TRC-SB-2 (10-12)], 16C0970-07[TRC-SB-3 (1-3)], 16C0970-08[TRC-SB-3 (10-12)], 16C0970-09[TRC-SB-4 (1-3)], 16C0970-10[TRC-SB-4 (10-12)], 16C0970- 11[TRC-SB-5 (1-3)], B144868-BLK1, B144868-BS1, B144868-BSD1, B144868-MS1, B144868-MSD1

Pentachlorophenol
16C0970-03[TRC-SB-1 (1-3)], 16C0970-04[TRC-SB-1 (10-12)], 16C0970-05[TRC-SB-2 (1-3)], 16C0970-06[TRC-SB-2 (10-12)], 16C0970-07[TRC-SB-3 (1-3)], 16C0970-08[TRC-SB-3 (10-12)], 16C0970-09[TRC-SB-4 (1-3)], 16C0970-10[TRC-SB-4 (10-12)], 16C0970- 11[TRC-SB-5 (1-3)], B144868-BLK1, B144868-BS1, B144868-BSD1, B144868-MSD1

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:

4-Nitrophenol
16C0970-03[TRC-SB-1 (1-3)], 16C0970-04[TRC-SB-1 (10-12)], 16C0970-05[TRC-SB-2 (1-3)], 16C0970-06[TRC-SB-2 (10-12)], 16C0970-07[TRC-SB-3 (1-3)], 16C0970-08[TRC-SB-3 (10-12)], 16C0970-09[TRC-SB-4 (1-3)], 16C0970-10[TRC-SB-4 (10-12)], 16C0970- 11[TRC-SB-5 (1-3)], 16C0970-12[TRC-SB-5 (10-12)], 16C0970-13[TRC-SB-6 (1-3)], 16C0970-14[TRC-SB-6 (10-12)], 16C0970-15[TRC-SB-7 (1-3)], 16C0970-16[TRC-SB-7 (10-12)], 16C0970-17[TRC-SB-8 (1-3)], 16C0970-18[TRC-SB-8 (10-12)], 16C0970-19[TRC-SB-9 (1-3)], 16C0970-20[TRC-SB-9 (10-12)], 16C0970-21[DUP-1], 16C0970-25[TRC-GW-5], B144868-BLK1, B144868-BS1, B144868-BSD1, B144868-MS1, B144868-MSD1, B145126-BLK1, B145126-BS1, B145126-BSD1

Benzaldehyde
16C0970-05[TRC-SB-2 (1-3)], 16C0970-08[TRC-SB-3 (10-12)], 16C0970-09[TRC-SB-4 (1-3)], 16C0970-10[TRC-SB-4 (10-12)], 16C0970- 11[TRC-SB-5 (1-3)], 16C0970-12[TRC-SB-5 (10-12)], 16C0970-13[TRC-SB-6 (1-3)], 16C0970-14[TRC-SB-6 (10-12)], 16C0970-15[TRC-SB-7 (1-3)], 16C0970-16[TRC-SB-7 (10-12)], 16C0970-17[TRC-SB-8 (1-3)], 16C0970-18[TRC-SB-8 (10-12)], 16C0970-19[TRC-SB-9 (1-3)], 16C0970-20[TRC-SB-9 (10-12)], 16C0970-21[DUP-1], 16C0970-25[TRC-GW-5], B145213-BLK1, B145213-BS1, B145213-BSD1, B145335-BLK1, B145335-BS1, B145335-BSD1

Bis(2-chloroisopropyl)ether
16C0970-22[TRC-GW-1], 16C0970-23[TRC-GW-3], 16C0970-24[TRC-GW-4], B144867-BLK1, B144867-BS1, B144867-BSD1

SW-846 9045C

Qualifications:

H-03

Sample received after recommended holding time was exceeded.

Analyte & Samples(s) Qualified:

pH
16C0970-04[TRC-SB-1 (10-12)], 16C0970-05[TRC-SB-2 (1-3)], 16C0970-12[TRC-SB-5 (10-12)], 16C0970-13[TRC-SB-6 (1-3)], 16C0970-16[TRC-SB-7 (10-12)], B144875-DUP1

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

SW-846 6010C/D SW-846 6020A/B

For NC, Metals methods SW-846 6010D and SW-846 6020B are followed, and for all other states methods SW-846 6010C and SW-846 6020A are followed.

SW-846 8015C

Gasoline Range Organics (2-Methylpentane through 1,2,4-Trimethylbenzene) is quantitated against a calibration made with an unleaded gasoline composite standard.

Diesel Range Organics (C10-C28) is quantitated against a calibration made with a #2 fuel oil 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.

Lisa A. Worthington
Project Manager

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-UST-1
Sampled: 3/19/2016 09:30
Sample ID: 16C0970-01
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0024	0.00083	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 9:15	MFF
n-Butylbenzene	ND	0.0024	0.00083	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 9:15	MFF
sec-Butylbenzene	ND	0.0024	0.0012	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 9:15	MFF
tert-Butylbenzene	ND	0.0024	0.0011	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 9:15	MFF
Ethylbenzene	ND	0.0024	0.00095	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 9:15	MFF
Isopropylbenzene (Cumene)	ND	0.0024	0.00083	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 9:15	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0024	0.00095	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 9:15	MFF
Naphthalene	ND	0.0047	0.00083	mg/Kg dry	1	V-05	SW-846 8260C	3/23/16	3/23/16 9:15	MFF
n-Propylbenzene	ND	0.0024	0.00083	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 9:15	MFF
Toluene	ND	0.0024	0.00095	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 9:15	MFF
1,2,4-Trimethylbenzene	ND	0.0024	0.00095	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 9:15	MFF
1,3,5-Trimethylbenzene	ND	0.0024	0.00071	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 9:15	MFF
m+p Xylene	ND	0.0047	0.0020	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 9:15	MFF
o-Xylene	ND	0.0024	0.00083	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 9:15	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	106	70-130		3/23/16 9:15
Toluene-d8	90.2	70-130		3/23/16 9:15
4-Bromofluorobenzene	101	70-130		3/23/16 9:15

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Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-UST-1
Sampled: 3/19/2016 09:30
Sample ID: 16C0970-01
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.18	0.054	mg/Kg dry	1		SW-846 8270D	3/24/16	3/26/16 14:37	BGL
Acenaphthylene	ND	0.18	0.060	mg/Kg dry	1		SW-846 8270D	3/24/16	3/26/16 14:37	BGL
Anthracene	ND	0.18	0.052	mg/Kg dry	1		SW-846 8270D	3/24/16	3/26/16 14:37	BGL
Benzo(a)anthracene	ND	0.18	0.048	mg/Kg dry	1		SW-846 8270D	3/24/16	3/26/16 14:37	BGL
Benzo(a)pyrene	ND	0.18	0.056	mg/Kg dry	1		SW-846 8270D	3/24/16	3/26/16 14:37	BGL
Benzo(b)fluoranthene	ND	0.18	0.051	mg/Kg dry	1		SW-846 8270D	3/24/16	3/26/16 14:37	BGL
Benzo(g,h,i)perylene	ND	0.18	0.080	mg/Kg dry	1		SW-846 8270D	3/24/16	3/26/16 14:37	BGL
Benzo(k)fluoranthene	ND	0.18	0.056	mg/Kg dry	1		SW-846 8270D	3/24/16	3/26/16 14:37	BGL
Chrysene	ND	0.18	0.056	mg/Kg dry	1		SW-846 8270D	3/24/16	3/26/16 14:37	BGL
Dibenz(a,h)anthracene	ND	0.18	0.11	mg/Kg dry	1		SW-846 8270D	3/24/16	3/26/16 14:37	BGL
Fluoranthene	ND	0.18	0.059	mg/Kg dry	1		SW-846 8270D	3/24/16	3/26/16 14:37	BGL
Fluorene	ND	0.18	0.058	mg/Kg dry	1		SW-846 8270D	3/24/16	3/26/16 14:37	BGL
Indeno(1,2,3-cd)pyrene	ND	0.18	0.13	mg/Kg dry	1		SW-846 8270D	3/24/16	3/26/16 14:37	BGL
Naphthalene	ND	0.18	0.092	mg/Kg dry	1		SW-846 8270D	3/24/16	3/26/16 14:37	BGL
Phenanthrene	ND	0.18	0.093	mg/Kg dry	1		SW-846 8270D	3/24/16	3/26/16 14:37	BGL
Pyrene	ND	0.18	0.059	mg/Kg dry	1		SW-846 8270D	3/24/16	3/26/16 14:37	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	82.7	30-130		3/26/16 14:37
2-Fluorobiphenyl	87.6	30-130		3/26/16 14:37
p-Terphenyl-d14	92.9	30-130		3/26/16 14:37

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Project Location: 450Q
Sample Description:
Work Order: 16C0970

Date Received: 3/21/2016

Field Sample #: TRC-UST-1
Sampled: 3/19/2016 09:30

Sample ID: 16C0970-01

Sample Matrix: Soil

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

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	94.3			% Wt	1		SM 2540G	3/22/16	3/23/16 8:20	MRL

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Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-UST-2
Sampled: 3/19/2016 08:50
Sample ID: 16C0970-02
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.0025	0.00086	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 9:43	MFF
n-Butylbenzene	ND	0.0025	0.00086	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 9:43	MFF
sec-Butylbenzene	ND	0.0025	0.0012	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 9:43	MFF
tert-Butylbenzene	ND	0.0025	0.0011	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 9:43	MFF
Ethylbenzene	ND	0.0025	0.00099	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 9:43	MFF
Isopropylbenzene (Cumene)	ND	0.0025	0.00086	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 9:43	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0025	0.00099	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 9:43	MFF
Naphthalene	ND	0.0049	0.00086	mg/Kg dry	1	V-05	SW-846 8260C	3/23/16	3/23/16 9:43	MFF
n-Propylbenzene	ND	0.0025	0.00086	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 9:43	MFF
Toluene	ND	0.0025	0.00099	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 9:43	MFF
1,2,4-Trimethylbenzene	ND	0.0025	0.00099	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 9:43	MFF
1,3,5-Trimethylbenzene	ND	0.0025	0.00074	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 9:43	MFF
m+p Xylene	ND	0.0049	0.0021	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 9:43	MFF
o-Xylene	ND	0.0025	0.00086	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 9:43	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	114	70-130		3/23/16 9:43
Toluene-d8	92.6	70-130		3/23/16 9:43
4-Bromofluorobenzene	101	70-130		3/23/16 9:43

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Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-UST-2
Sampled: 3/19/2016 08:50
Sample ID: 16C0970-02
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	0.061	mg/Kg dry	1		SW-846 8270D	3/24/16	3/26/16 15:02	BGL
Acenaphthylene	ND	0.20	0.068	mg/Kg dry	1		SW-846 8270D	3/24/16	3/26/16 15:02	BGL
Anthracene	ND	0.20	0.059	mg/Kg dry	1		SW-846 8270D	3/24/16	3/26/16 15:02	BGL
Benzo(a)anthracene	ND	0.20	0.054	mg/Kg dry	1		SW-846 8270D	3/24/16	3/26/16 15:02	BGL
Benzo(a)pyrene	ND	0.20	0.063	mg/Kg dry	1		SW-846 8270D	3/24/16	3/26/16 15:02	BGL
Benzo(b)fluoranthene	ND	0.20	0.057	mg/Kg dry	1		SW-846 8270D	3/24/16	3/26/16 15:02	BGL
Benzo(g,h,i)perylene	ND	0.20	0.090	mg/Kg dry	1		SW-846 8270D	3/24/16	3/26/16 15:02	BGL
Benzo(k)fluoranthene	ND	0.20	0.063	mg/Kg dry	1		SW-846 8270D	3/24/16	3/26/16 15:02	BGL
Chrysene	ND	0.20	0.063	mg/Kg dry	1		SW-846 8270D	3/24/16	3/26/16 15:02	BGL
Dibenz(a,h)anthracene	ND	0.20	0.12	mg/Kg dry	1		SW-846 8270D	3/24/16	3/26/16 15:02	BGL
Fluoranthene	ND	0.20	0.067	mg/Kg dry	1		SW-846 8270D	3/24/16	3/26/16 15:02	BGL
Fluorene	ND	0.20	0.066	mg/Kg dry	1		SW-846 8270D	3/24/16	3/26/16 15:02	BGL
Indeno(1,2,3-cd)pyrene	ND	0.20	0.15	mg/Kg dry	1		SW-846 8270D	3/24/16	3/26/16 15:02	BGL
Naphthalene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	3/24/16	3/26/16 15:02	BGL
Phenanthrene	ND	0.20	0.11	mg/Kg dry	1		SW-846 8270D	3/24/16	3/26/16 15:02	BGL
Pyrene	ND	0.20	0.067	mg/Kg dry	1		SW-846 8270D	3/24/16	3/26/16 15:02	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	63.3	30-130		3/26/16 15:02
2-Fluorobiphenyl	66.6	30-130		3/26/16 15:02
p-Terphenyl-d14	70.8	30-130		3/26/16 15:02

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

Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-UST-2
Sampled: 3/19/2016 08:50
Sample ID: 16C0970-02
Sample Matrix: Soil

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

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.6			% Wt	1		SM 2540G	3/22/16	3/23/16 8:20	MRL

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Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-1 (1-3)
Sampled: 3/19/2016 11:33
Sample ID: 16C0970-03
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.10	0.024	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 10:10	MFF
Benzene	ND	0.0020	0.00071	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 10:10	MFF
Bromochloromethane	ND	0.0020	0.0014	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 10:10	MFF
Bromodichloromethane	ND	0.0020	0.00061	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 10:10	MFF
Bromoform	ND	0.0020	0.0014	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 10:10	MFF
Bromomethane	ND	0.010	0.0017	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 10:10	MFF
2-Butanone (MEK)	ND	0.040	0.018	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 10:10	MFF
Carbon Disulfide	ND	0.0061	0.0035	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 10:10	MFF
Carbon Tetrachloride	ND	0.0020	0.00081	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 10:10	MFF
Chlorobenzene	ND	0.0020	0.00071	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 10:10	MFF
Chlorodibromomethane	ND	0.0010	0.00071	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 10:10	MFF
Chloroethane	ND	0.020	0.0015	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 10:10	MFF
Chloroform	ND	0.0040	0.00071	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 10:10	MFF
Chloromethane	ND	0.010	0.00091	mg/Kg dry	1	L-04, V-05	SW-846 8260C	3/23/16	3/23/16 10:10	MFF
Cyclohexane	ND	0.0020	0.00081	mg/Kg dry	1	V-05	SW-846 8260C	3/23/16	3/23/16 10:10	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	0.0011	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 10:10	MFF
1,2-Dibromoethane (EDB)	ND	0.0010	0.0010	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 10:10	MFF
1,2-Dichlorobenzene	ND	0.0020	0.00071	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 10:10	MFF
1,3-Dichlorobenzene	ND	0.0020	0.00071	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 10:10	MFF
1,4-Dichlorobenzene	ND	0.0020	0.00081	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 10:10	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.020	0.0013	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 10:10	MFF
1,1-Dichloroethane	ND	0.0020	0.00071	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 10:10	MFF
1,2-Dichloroethane	ND	0.0020	0.0013	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 10:10	MFF
1,1-Dichloroethylene	ND	0.0040	0.0011	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 10:10	MFF
cis-1,2-Dichloroethylene	ND	0.0020	0.00081	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 10:10	MFF
trans-1,2-Dichloroethylene	ND	0.0020	0.00091	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 10:10	MFF
1,2-Dichloropropane	ND	0.0020	0.0013	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 10:10	MFF
cis-1,3-Dichloropropene	ND	0.0010	0.00071	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 10:10	MFF
trans-1,3-Dichloropropene	ND	0.0010	0.00071	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 10:10	MFF
Ethylbenzene	ND	0.0020	0.00081	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 10:10	MFF
2-Hexanone (MBK)	ND	0.020	0.011	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 10:10	MFF
Isopropylbenzene (Cumene)	ND	0.0020	0.00071	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 10:10	MFF
Methyl Acetate	ND	0.0020	0.0016	mg/Kg dry	1	V-05	SW-846 8260C	3/23/16	3/23/16 10:10	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	0.00091	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 10:10	MFF
Methyl Cyclohexane	ND	0.0020	0.0010	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 10:10	MFF
Methylene Chloride	ND	0.020	0.0072	mg/Kg dry	1	V-05	SW-846 8260C	3/23/16	3/23/16 10:10	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.020	0.0077	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 10:10	MFF
Styrene	ND	0.0020	0.00061	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 10:10	MFF
1,1,2,2-Tetrachloroethane	ND	0.0010	0.00091	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 10:10	MFF
Tetrachloroethylene	ND	0.0020	0.0013	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 10:10	MFF
Toluene	ND	0.0020	0.00081	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 10:10	MFF
1,2,3-Trichlorobenzene	ND	0.0020	0.00061	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 10:10	MFF
1,2,4-Trichlorobenzene	ND	0.0020	0.00081	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 10:10	MFF
1,1,1-Trichloroethane	ND	0.0020	0.0010	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 10:10	MFF

con-test® ANALYTICAL LABORATORY
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Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-1 (1-3)
Sampled: 3/19/2016 11:33
Sample ID: 16C0970-03
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,2-Trichloroethane	ND	0.0020	0.0012	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 10:10	MFF
Trichloroethylene	ND	0.0020	0.0010	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 10:10	MFF
Trichlorofluoromethane (Freon 11)	ND	0.010	0.0011	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 10:10	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	0.00091	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 10:10	MFF
Vinyl Chloride	ND	0.010	0.0011	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 10:10	MFF
m+p Xylene	ND	0.0040	0.0017	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 10:10	MFF
o-Xylene	ND	0.0020	0.00071	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 10:10	MFF
Xylenes (total)	ND	0.0061		mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 10:10	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	114	70-130		3/23/16 10:10
Toluene-d8	92.5	70-130		3/23/16 10:10
4-Bromofluorobenzene	97.3	70-130		3/23/16 10:10

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

Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-1 (1-3)
Sampled: 3/19/2016 11:33
Sample ID: 16C0970-03
Sample Matrix: Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg dry			1			SW-846 8260C	3/23/16	3/23/16 10:10	MFF

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Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-1 (1-3)
Sampled: 3/19/2016 11:33
Sample ID: 16C0970-03
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Atrazine	ND	0.76	0.64	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 12:09	CMR
Benzaldehyde	ND	0.39	0.37	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 12:09	CMR
Biphenyl	ND	0.76	0.48	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 12:09	CMR
Caprolactam	ND	0.39	0.29	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 12:09	CMR
Acenaphthene	ND	0.19	0.058	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 12:09	BGL
Acenaphthylene	ND	0.19	0.065	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 12:09	BGL
Acetophenone	ND	0.39	0.076	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 12:09	BGL
Anthracene	0.12	0.19	0.056	mg/Kg dry	1	J	SW-846 8270D	3/23/16	3/28/16 12:09	BGL
Benzo(a)anthracene	0.60	0.19	0.051	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 12:09	BGL
Benzo(a)pyrene	0.53	0.19	0.060	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 12:09	BGL
Benzo(b)fluoranthene	0.77	0.19	0.055	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 12:09	BGL
Benzo(g,h,i)perylene	0.37	0.19	0.085	mg/Kg dry	1	V-05	SW-846 8270D	3/23/16	3/28/16 12:09	BGL
Benzo(k)fluoranthene	0.25	0.19	0.060	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 12:09	BGL
Bis(2-chloroethoxy)methane	ND	0.39	0.074	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 12:09	BGL
Bis(2-chloroethyl)ether	ND	0.39	0.076	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 12:09	BGL
Bis(2-chloroisopropyl)ether	ND	0.39	0.083	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 12:09	BGL
Bis(2-Ethylhexyl)phthalate	0.15	0.39	0.15	mg/Kg dry	1	J	SW-846 8270D	3/23/16	3/28/16 12:09	BGL
4-Bromophenylphenylether	ND	0.39	0.065	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 12:09	BGL
Butylbenzylphthalate	ND	0.39	0.092	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 12:09	BGL
Carbazole	0.054	0.19	0.050	mg/Kg dry	1	J	SW-846 8270D	3/23/16	3/28/16 12:09	BGL
4-Chloroaniline	ND	0.75	0.089	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 12:09	BGL
4-Chloro-3-methylphenol	ND	0.75	0.083	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 12:09	BGL
2-Chloronaphthalene	ND	0.39	0.073	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 12:09	BGL
2-Chlorophenol	ND	0.39	0.069	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 12:09	BGL
4-Chlorophenylphenylether	ND	0.39	0.065	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 12:09	BGL
Chrysene	0.65	0.19	0.060	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 12:09	BGL
Dibenz(a,h)anthracene	ND	0.19	0.12	mg/Kg dry	1	V-05	SW-846 8270D	3/23/16	3/28/16 12:09	BGL
Dibenzofuran	ND	0.39	0.067	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 12:09	BGL
Di-n-butylphthalate	ND	0.39	0.084	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 12:09	BGL
3,3-Dichlorobenzidine	ND	0.19	0.059	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 12:09	BGL
2,4-Dichlorophenol	ND	0.39	0.066	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 12:09	BGL
Diethylphthalate	ND	0.39	0.069	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 12:09	BGL
2,4-Dimethylphenol	ND	0.39	0.072	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 12:09	BGL
Dimethylphthalate	ND	0.39	0.068	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 12:09	BGL
4,6-Dinitro-2-methylphenol	ND	0.39	0.37	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 12:09	BGL
2,4-Dinitrophenol	ND	0.75	0.22	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 12:09	BGL
2,4-Dinitrotoluene	ND	0.39	0.062	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 12:09	BGL
2,6-Dinitrotoluene	ND	0.39	0.068	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 12:09	BGL
Di-n-octylphthalate	ND	0.39	0.20	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 12:09	BGL
Fluoranthene	1.1	0.19	0.064	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 12:09	BGL
Fluorene	ND	0.19	0.062	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 12:09	BGL
Hexachlorobenzene	ND	0.39	0.068	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 12:09	BGL
Hexachlorobutadiene	ND	0.39	0.068	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 12:09	BGL
Hexachlorocyclopentadiene	ND	0.39	0.082	mg/Kg dry	1	V-05	SW-846 8270D	3/23/16	3/28/16 12:09	BGL

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

Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-1 (1-3)
Sampled: 3/19/2016 11:33
Sample ID: 16C0970-03
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachloroethane	ND	0.39	0.077	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 12:09	BGL
Indeno(1,2,3-cd)pyrene	0.38	0.19	0.14	mg/Kg dry	1	V-05	SW-846 8270D	3/23/16	3/28/16 12:09	BGL
Isophorone	ND	0.39	0.075	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 12:09	BGL
2-Methylnaphthalene	ND	0.19	0.067	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 12:09	BGL
2-Methylphenol	ND	0.39	0.097	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 12:09	BGL
3/4-Methylphenol	ND	0.39	0.12	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 12:09	BGL
Naphthalene	0.17	0.19	0.099	mg/Kg dry	1	J	SW-846 8270D	3/23/16	3/28/16 12:09	BGL
2-Nitroaniline	ND	0.39	0.065	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 12:09	BGL
3-Nitroaniline	ND	0.39	0.056	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 12:09	BGL
4-Nitroaniline	ND	0.39	0.065	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 12:09	BGL
Nitrobenzene	ND	0.39	0.073	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 12:09	BGL
2-Nitrophenol	ND	0.39	0.10	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 12:09	BGL
4-Nitrophenol	ND	0.75	0.084	mg/Kg dry	1	V-20	SW-846 8270D	3/23/16	3/28/16 12:09	BGL
N-Nitrosodiphenylamine	ND	0.39	0.080	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 12:09	BGL
N-Nitrosodi-n-propylamine	ND	0.39	0.080	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 12:09	BGL
Pentachlorophenol	ND	0.39	0.093	mg/Kg dry	1	V-05	SW-846 8270D	3/23/16	3/28/16 12:09	BGL
Phenanthrene	0.87	0.19	0.10	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 12:09	BGL
Phenol	ND	0.39	0.066	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 12:09	BGL
Pyrene	1.2	0.19	0.064	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 12:09	BGL
1,2,4,5-Tetrachlorobenzene	ND	0.39	0.069	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 12:09	BGL
2,4,5-Trichlorophenol	ND	0.39	0.088	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 12:09	BGL
2,4,6-Trichlorophenol	ND	0.39	0.065	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 12:09	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	57.3	30-130		3/28/16 12:09
Phenol-d6	66.1	30-130		3/28/16 12:09
Nitrobenzene-d5	44.9	30-130		3/28/16 12:09
2-Fluorobiphenyl	72.1	30-130		3/28/16 12:09
2,4,6-Tribromophenol	59.7	30-130		3/28/16 12:09
p-Terphenyl-d14	77.5	30-130		3/28/16 12:09

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

Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-1 (1-3)
Sampled: 3/19/2016 11:33
Sample ID: 16C0970-03
Sample Matrix: Soil

Tentatively Identified Compounds - SV Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
n-Hexadecanoic acid	10	mg/Kg dry	10776500	5.639	1	000057-10-3	98	SW-846 8270D	3/23/16	3/28/16 12:09	BGL

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

Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-1 (1-3)
Sampled: 3/19/2016 11:33
Sample ID: 16C0970-03
Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-Chlordane [1]	ND	0.0057	0.00032	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 2:46	PJG
gamma-Chlordane [1]	ND	0.0057	0.00032	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 2:46	PJG
Alachlor [1]	ND	0.023	0.0012	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 2:46	PJG
Aldrin [1]	ND	0.0057	0.00034	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 2:46	PJG
alpha-BHC [1]	ND	0.0057	0.00045	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 2:46	PJG
beta-BHC [1]	ND	0.0057	0.00057	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 2:46	PJG
delta-BHC [1]	ND	0.0057	0.00045	mg/Kg dry	1	R-06	SW-846 8081B	3/22/16	3/25/16 2:46	PJG
gamma-BHC (Lindane) [1]	ND	0.0023	0.00057	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 2:46	PJG
Chlordane [1]	ND	0.023	0.0066	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 2:46	PJG
4,4'-DDD [2]	0.0010	0.0045	0.00045	mg/Kg dry	1	J, P-08, V-06	SW-846 8081B	3/22/16	3/25/16 2:46	PJG
4,4'-DDE [1]	ND	0.0045	0.00034	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 2:46	PJG
4,4'-DDT [1]	0.0028	0.0045	0.00045	mg/Kg dry	1	J, P-01, V-24	SW-846 8081B	3/22/16	3/25/16 2:46	PJG
Dieldrin [1]	ND	0.0045	0.00034	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 2:46	PJG
Endosulfan I [1]	ND	0.0057	0.00045	mg/Kg dry	1	R-06	SW-846 8081B	3/22/16	3/25/16 2:46	PJG
Endosulfan II [2]	0.0018	0.0091	0.00034	mg/Kg dry	1	J, P-01, R-06	SW-846 8081B	3/22/16	3/25/16 2:46	PJG
Endosulfan sulfate [2]	0.0019	0.0091	0.0015	mg/Kg dry	1	J, P-01, V-06	SW-846 8081B	3/22/16	3/25/16 2:46	PJG
Endrin [1]	ND	0.0091	0.00034	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 2:46	PJG
Endrin aldehyde [1]	ND	0.0091	0.0014	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 2:46	PJG
Endrin ketone [1]	ND	0.0091	0.00045	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 2:46	PJG
Heptachlor [1]	ND	0.0057	0.00057	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 2:46	PJG
Heptachlor epoxide [1]	ND	0.0057	0.00045	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 2:46	PJG
Hexachlorobenzene [1]	0.0019	0.0068	0.00080	mg/Kg dry	1	J	SW-846 8081B	3/22/16	3/25/16 2:46	PJG
Methoxychlor [1]	ND	0.057	0.00068	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 2:46	PJG
Toxaphene [1]	ND	0.11	0.049	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 2:46	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	81.5	30-150		3/25/16 2:46
Decachlorobiphenyl [2]	104	30-150		3/25/16 2:46
Tetrachloro-m-xylene [1]	66.7	30-150		3/25/16 2:46
Tetrachloro-m-xylene [2]	64.4	30-150		3/25/16 2:46

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Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-1 (1-3)
Sampled: 3/19/2016 11:33
Sample ID: 16C0970-03
Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	0.068	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 17:56	BJH
Aroclor-1221 [1]	ND	0.11	0.074	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 17:56	BJH
Aroclor-1232 [1]	ND	0.11	0.051	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 17:56	BJH
Aroclor-1242 [1]	ND	0.11	0.057	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 17:56	BJH
Aroclor-1248 [1]	ND	0.11	0.068	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 17:56	BJH
Aroclor-1254 [1]	ND	0.11	0.074	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 17:56	BJH
Aroclor-1260 [1]	ND	0.11	0.080	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 17:56	BJH
Aroclor-1262 [1]	ND	0.11	0.057	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 17:56	BJH
Aroclor-1268 [1]	ND	0.11	0.045	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 17:56	BJH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	81.1	30-150		3/24/16 17:56
Decachlorobiphenyl [2]	84.0	30-150		3/24/16 17:56
Tetrachloro-m-xylene [1]	79.7	30-150		3/24/16 17:56
Tetrachloro-m-xylene [2]	89.7	30-150		3/24/16 17:56

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Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-1 (1-3)
Sampled: 3/19/2016 11:33
Sample ID: 16C0970-03
Sample Matrix: Soil
Sample Flags: DL-03

Herbicides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-D [2]	ND	280	94	µg/kg dry	10		SW-846 8151A	3/22/16	3/26/16 22:29	JMB
2,4,5-TP (Silvex) [2]	ND	28	17	µg/kg dry	10		SW-846 8151A	3/22/16	3/26/16 22:29	JMB
2,4,5-T [2]	ND	28	12	µg/kg dry	10		SW-846 8151A	3/22/16	3/26/16 22:29	JMB
Dalapon [2]	ND	710	110	µg/kg dry	10	V-20	SW-846 8151A	3/22/16	3/26/16 22:29	JMB
Dicamba [2]	ND	28	14	µg/kg dry	10		SW-846 8151A	3/22/16	3/26/16 22:29	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2,4-Dichlorophenylacetic acid [1]	*	30-150	S-01	3/26/16 22:29
2,4-Dichlorophenylacetic acid [2]	*	30-150	S-01	3/26/16 22:29

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Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-1 (1-3)
Sampled: 3/19/2016 11:33
Sample ID: 16C0970-03
Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	6300	2.8	2.3	mg/Kg dry	1	MS-19	SW-846 6010C-D	3/22/16	3/25/16 13:43	AME
Antimony	ND	2.8	1.0	mg/Kg dry	1	MS-07	SW-846 6010C-D	3/22/16	3/25/16 13:48	AME
Arsenic	44	2.8	0.51	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 13:43	AME
Barium	3300	14	4.3	mg/Kg dry	5	MS-19, R-02	SW-846 6010C-D	3/22/16	3/28/16 18:36	AME
Beryllium	0.74	0.28	0.22	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 13:43	AME
Cadmium	3.0	0.28	0.13	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 13:43	AME
Calcium	19000	8.4	5.0	mg/Kg dry	1	MS-19	SW-846 6010C-D	3/22/16	3/28/16 19:22	AME
Chromium	25	0.56	0.26	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 13:43	AME
Cobalt	11	2.8	0.86	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 13:43	AME
Copper	91	0.56	0.20	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 13:43	AME
Iron	87000	14	7.6	mg/Kg dry	5	MS-19	SW-846 6010C-D	3/22/16	3/28/16 18:36	AME
Lead	17000	4.2	1.5	mg/Kg dry	5	MS-19	SW-846 6010C-D	3/22/16	3/28/16 18:36	AME
Magnesium	3500	8.4	4.2	mg/Kg dry	1	MS-19	SW-846 6010C-D	3/22/16	3/25/16 13:43	AME
Manganese	450	0.56	0.39	mg/Kg dry	1	MS-19	SW-846 6010C-D	3/22/16	3/25/16 13:43	AME
Mercury	0.24	0.028	0.0047	mg/Kg dry	1		SW-846 7471B	3/22/16	3/23/16 15:11	TGW
Nickel	20	0.56	0.16	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 13:43	AME
Potassium	700	110	15	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 13:43	AME
Selenium	ND	5.6		mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 13:43	AME
Silver	ND	0.56	0.44	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 13:43	AME
Sodium	250	110	39	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 13:43	AME
Thallium	ND	2.8	1.8	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 13:43	AME
Vanadium	25	1.1	0.32	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 13:43	AME
Zinc	970	1.1	0.92	mg/Kg dry	1	MS-19	SW-846 6010C-D	3/22/16	3/25/16 13:43	AME

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Project Location: 450Q
Sample Description:
Work Order: 16C0970

Date Received: 3/21/2016

Field Sample #: TRC-SB-1 (1-3)
Sampled: 3/19/2016 11:33

Sample ID: 16C0970-03

Sample Matrix: Soil

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

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	88.0			% Wt	1		SM 2540G	3/22/16	3/23/16 8:20	MRL

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Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-1 (10-12)
Sampled: 3/19/2016 11:36
Sample ID: 16C0970-04
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.096	0.023	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 10:37	MFF
Benzene	ND	0.0019	0.00067	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 10:37	MFF
Bromochloromethane	ND	0.0019	0.0013	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 10:37	MFF
Bromodichloromethane	ND	0.0019	0.00058	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 10:37	MFF
Bromoform	ND	0.0019	0.0013	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 10:37	MFF
Bromomethane	ND	0.0096	0.0016	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 10:37	MFF
2-Butanone (MEK)	ND	0.039	0.017	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 10:37	MFF
Carbon Disulfide	ND	0.0058	0.0034	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 10:37	MFF
Carbon Tetrachloride	ND	0.0019	0.00077	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 10:37	MFF
Chlorobenzene	ND	0.0019	0.00067	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 10:37	MFF
Chlorodibromomethane	ND	0.00096	0.00067	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 10:37	MFF
Chloroethane	ND	0.019	0.0014	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 10:37	MFF
Chloroform	ND	0.0039	0.00067	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 10:37	MFF
Chloromethane	ND	0.0096	0.00087	mg/Kg dry	1	L-04, V-05	SW-846 8260C	3/23/16	3/23/16 10:37	MFF
Cyclohexane	ND	0.0019	0.00077	mg/Kg dry	1	V-05	SW-846 8260C	3/23/16	3/23/16 10:37	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0019	0.0011	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 10:37	MFF
1,2-Dibromoethane (EDB)	ND	0.00096	0.00096	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 10:37	MFF
1,2-Dichlorobenzene	ND	0.0019	0.00067	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 10:37	MFF
1,3-Dichlorobenzene	ND	0.0019	0.00067	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 10:37	MFF
1,4-Dichlorobenzene	ND	0.0019	0.00077	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 10:37	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.019	0.0013	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 10:37	MFF
1,1-Dichloroethane	ND	0.0019	0.00067	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 10:37	MFF
1,2-Dichloroethane	ND	0.0019	0.0013	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 10:37	MFF
1,1-Dichloroethylene	ND	0.0039	0.0011	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 10:37	MFF
cis-1,2-Dichloroethylene	ND	0.0019	0.00077	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 10:37	MFF
trans-1,2-Dichloroethylene	ND	0.0019	0.00087	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 10:37	MFF
1,2-Dichloropropane	ND	0.0019	0.0013	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 10:37	MFF
cis-1,3-Dichloropropene	ND	0.00096	0.00067	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 10:37	MFF
trans-1,3-Dichloropropene	ND	0.00096	0.00067	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 10:37	MFF
Ethylbenzene	ND	0.0019	0.00077	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 10:37	MFF
2-Hexanone (MBK)	ND	0.019	0.011	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 10:37	MFF
Isopropylbenzene (Cumene)	ND	0.0019	0.00067	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 10:37	MFF
Methyl Acetate	ND	0.0019	0.0015	mg/Kg dry	1	V-05	SW-846 8260C	3/23/16	3/23/16 10:37	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0039	0.00087	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 10:37	MFF
Methyl Cyclohexane	ND	0.0019	0.00096	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 10:37	MFF
Methylene Chloride	ND	0.019	0.0068	mg/Kg dry	1	V-05	SW-846 8260C	3/23/16	3/23/16 10:37	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.019	0.0073	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 10:37	MFF
Styrene	ND	0.0019	0.00058	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 10:37	MFF
1,1,2,2-Tetrachloroethane	ND	0.00096	0.00087	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 10:37	MFF
Tetrachloroethylene	ND	0.0019	0.0013	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 10:37	MFF
Toluene	ND	0.0019	0.00077	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 10:37	MFF
1,2,3-Trichlorobenzene	ND	0.0019	0.00058	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 10:37	MFF
1,2,4-Trichlorobenzene	ND	0.0019	0.00077	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 10:37	MFF
1,1,1-Trichloroethane	ND	0.0019	0.00096	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 10:37	MFF

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

Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-1 (10-12)
Sampled: 3/19/2016 11:36
Sample ID: 16C0970-04
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,2-Trichloroethane	ND	0.0019	0.0012	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 10:37	MFF
Trichloroethylene	ND	0.0019	0.00096	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 10:37	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0096	0.0011	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 10:37	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0096	0.00087	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 10:37	MFF
Vinyl Chloride	ND	0.0096	0.0011	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 10:37	MFF
m+p Xylene	ND	0.0039	0.0016	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 10:37	MFF
o-Xylene	ND	0.0019	0.00067	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 10:37	MFF
Xylenes (total)	ND	0.0058		mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 10:37	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	115	70-130		3/23/16 10:37
Toluene-d8	92.9	70-130		3/23/16 10:37
4-Bromofluorobenzene	97.8	70-130		3/23/16 10:37

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Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-1 (10-12)
Sampled: 3/19/2016 11:36
Sample ID: 16C0970-04
Sample Matrix: Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg dry			1			SW-846 8260C	3/23/16	3/23/16 10:37	MFF

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Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-1 (10-12)
Sampled: 3/19/2016 11:36
Sample ID: 16C0970-04
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Atrazine	ND	0.69	0.58	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 12:33	CMR
Benzaldehyde	ND	0.35	0.33	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 12:33	CMR
Biphenyl	ND	0.69	0.44	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 12:33	CMR
Caprolactam	ND	0.35	0.27	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 12:33	CMR
Acenaphthene	ND	0.18	0.053	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 12:33	BGL
Acenaphthylene	ND	0.18	0.059	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 12:33	BGL
Acetophenone	ND	0.35	0.069	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 12:33	BGL
Anthracene	ND	0.18	0.051	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 12:33	BGL
Benzo(a)anthracene	0.090	0.18	0.047	mg/Kg dry	1	J	SW-846 8270D	3/23/16	3/28/16 12:33	BGL
Benzo(a)pyrene	0.081	0.18	0.055	mg/Kg dry	1	J	SW-846 8270D	3/23/16	3/28/16 12:33	BGL
Benzo(b)fluoranthene	0.099	0.18	0.050	mg/Kg dry	1	J	SW-846 8270D	3/23/16	3/28/16 12:33	BGL
Benzo(g,h,i)perylene	ND	0.18	0.078	mg/Kg dry	1	V-05	SW-846 8270D	3/23/16	3/28/16 12:33	BGL
Benzo(k)fluoranthene	ND	0.18	0.055	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 12:33	BGL
Bis(2-chloroethoxy)methane	ND	0.35	0.067	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 12:33	BGL
Bis(2-chloroethyl)ether	ND	0.35	0.069	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 12:33	BGL
Bis(2-chloroisopropyl)ether	ND	0.35	0.076	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 12:33	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.35	0.14	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 12:33	BGL
4-Bromophenylphenylether	ND	0.35	0.059	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 12:33	BGL
Butylbenzylphthalate	ND	0.35	0.084	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 12:33	BGL
Carbazole	ND	0.18	0.046	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 12:33	BGL
4-Chloroaniline	ND	0.68	0.081	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 12:33	BGL
4-Chloro-3-methylphenol	ND	0.68	0.076	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 12:33	BGL
2-Chloronaphthalene	ND	0.35	0.066	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 12:33	BGL
2-Chlorophenol	ND	0.35	0.063	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 12:33	BGL
4-Chlorophenylphenylether	ND	0.35	0.059	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 12:33	BGL
Chrysene	0.091	0.18	0.055	mg/Kg dry	1	J	SW-846 8270D	3/23/16	3/28/16 12:33	BGL
Dibenz(a,h)anthracene	ND	0.18	0.11	mg/Kg dry	1	V-05	SW-846 8270D	3/23/16	3/28/16 12:33	BGL
Dibenzofuran	ND	0.35	0.061	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 12:33	BGL
Di-n-butylphthalate	ND	0.35	0.077	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 12:33	BGL
3,3-Dichlorobenzidine	ND	0.18	0.054	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 12:33	BGL
2,4-Dichlorophenol	ND	0.35	0.060	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 12:33	BGL
Diethylphthalate	ND	0.35	0.063	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 12:33	BGL
2,4-Dimethylphenol	ND	0.35	0.065	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 12:33	BGL
Dimethylphthalate	ND	0.35	0.062	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 12:33	BGL
4,6-Dinitro-2-methylphenol	ND	0.35	0.33	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 12:33	BGL
2,4-Dinitrophenol	ND	0.68	0.20	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 12:33	BGL
2,4-Dinitrotoluene	ND	0.35	0.057	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 12:33	BGL
2,6-Dinitrotoluene	ND	0.35	0.062	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 12:33	BGL
Di-n-octylphthalate	ND	0.35	0.18	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 12:33	BGL
Fluoranthene	0.19	0.18	0.058	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 12:33	BGL
Fluorene	ND	0.18	0.057	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 12:33	BGL
Hexachlorobenzene	ND	0.35	0.062	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 12:33	BGL
Hexachlorobutadiene	ND	0.35	0.062	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 12:33	BGL
Hexachlorocyclopentadiene	ND	0.35	0.075	mg/Kg dry	1	V-05	SW-846 8270D	3/23/16	3/28/16 12:33	BGL

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Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-1 (10-12)
Sampled: 3/19/2016 11:36
Sample ID: 16C0970-04
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachloroethane	ND	0.35	0.070	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 12:33	BGL
Indeno(1,2,3-cd)pyrene	ND	0.18	0.13	mg/Kg dry	1	V-05	SW-846 8270D	3/23/16	3/28/16 12:33	BGL
Isophorone	ND	0.35	0.068	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 12:33	BGL
2-Methylnaphthalene	ND	0.18	0.061	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 12:33	BGL
2-Methylphenol	ND	0.35	0.088	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 12:33	BGL
3/4-Methylphenol	ND	0.35	0.11	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 12:33	BGL
Naphthalene	ND	0.18	0.090	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 12:33	BGL
2-Nitroaniline	ND	0.35	0.059	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 12:33	BGL
3-Nitroaniline	ND	0.35	0.051	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 12:33	BGL
4-Nitroaniline	ND	0.35	0.059	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 12:33	BGL
Nitrobenzene	ND	0.35	0.066	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 12:33	BGL
2-Nitrophenol	ND	0.35	0.093	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 12:33	BGL
4-Nitrophenol	ND	0.68	0.077	mg/Kg dry	1	V-20	SW-846 8270D	3/23/16	3/28/16 12:33	BGL
N-Nitrosodiphenylamine	ND	0.35	0.072	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 12:33	BGL
N-Nitrosodi-n-propylamine	ND	0.35	0.072	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 12:33	BGL
Pentachlorophenol	ND	0.35	0.085	mg/Kg dry	1	V-05	SW-846 8270D	3/23/16	3/28/16 12:33	BGL
Phenanthrene	0.17	0.18	0.091	mg/Kg dry	1	J	SW-846 8270D	3/23/16	3/28/16 12:33	BGL
Phenol	ND	0.35	0.060	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 12:33	BGL
Pyrene	0.24	0.18	0.058	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 12:33	BGL
1,2,4,5-Tetrachlorobenzene	ND	0.35	0.063	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 12:33	BGL
2,4,5-Trichlorophenol	ND	0.35	0.080	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 12:33	BGL
2,4,6-Trichlorophenol	ND	0.35	0.059	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 12:33	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	57.3	30-130		3/28/16 12:33
Phenol-d6	64.2	30-130		3/28/16 12:33
Nitrobenzene-d5	66.9	30-130		3/28/16 12:33
2-Fluorobiphenyl	67.0	30-130		3/28/16 12:33
2,4,6-Tribromophenol	61.2	30-130		3/28/16 12:33
p-Terphenyl-d14	81.6	30-130		3/28/16 12:33

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Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-1 (10-12)
Sampled: 3/19/2016 11:36
Sample ID: 16C0970-04
Sample Matrix: Soil

Tentatively Identified Compounds - SV Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg dry			1			SW-846 8270D	3/23/16	3/28/16 12:33	BGL

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Sampled: 3/19/2016 11:36
Sample ID: 16C0970-04
Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-Chlordane [1]	ND	0.0052	0.00029	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 3:09	PJG
gamma-Chlordane [1]	ND	0.0052	0.00029	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 3:09	PJG
Alachlor [1]	ND	0.021	0.0011	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 3:09	PJG
Aldrin [1]	ND	0.0052	0.00031	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 3:09	PJG
alpha-BHC [1]	ND	0.0052	0.00041	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 3:09	PJG
beta-BHC [1]	ND	0.0052	0.00052	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 3:09	PJG
delta-BHC [1]	ND	0.0052	0.00041	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 3:09	PJG
gamma-BHC (Lindane) [1]	ND	0.0021	0.00052	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 3:09	PJG
Chlordane [1]	ND	0.021	0.0060	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 3:09	PJG
4,4'-DDD [2]	0.00055	0.0041	0.00041	mg/Kg dry	1	P-08, V-06, J	SW-846 8081B	3/22/16	3/25/16 3:09	PJG
4,4'-DDE [1]	ND	0.0041	0.00031	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 3:09	PJG
4,4'-DDT [1]	0.00062	0.0041	0.00041	mg/Kg dry	1	P-01, V-24, J	SW-846 8081B	3/22/16	3/25/16 3:09	PJG
Dieldrin [1]	ND	0.0041	0.00031	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 3:09	PJG
Endosulfan I [1]	ND	0.0052	0.00041	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 3:09	PJG
Endosulfan II [1]	ND	0.0083	0.00031	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 3:09	PJG
Endosulfan sulfate [1]	ND	0.0083	0.0013	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 3:09	PJG
Endrin [1]	ND	0.0083	0.00031	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 3:09	PJG
Endrin aldehyde [1]	ND	0.0083	0.0012	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 3:09	PJG
Endrin ketone [1]	ND	0.0083	0.00041	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 3:09	PJG
Heptachlor [1]	ND	0.0052	0.00052	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 3:09	PJG
Heptachlor epoxide [1]	ND	0.0052	0.00041	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 3:09	PJG
Hexachlorobenzene [2]	ND	0.0062	0.00072	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 3:09	PJG
Methoxychlor [1]	ND	0.052	0.00062	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 3:09	PJG
Toxaphene [1]	ND	0.10	0.045	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 3:09	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	76.9	30-150		3/25/16 3:09
Decachlorobiphenyl [2]	92.1	30-150		3/25/16 3:09
Tetrachloro-m-xylene [1]	73.0	30-150		3/25/16 3:09
Tetrachloro-m-xylene [2]	69.3	30-150		3/25/16 3:09

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Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-1 (10-12)
Sampled: 3/19/2016 11:36
Sample ID: 16C0970-04
Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	0.062	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 18:09	BJH
Aroclor-1221 [1]	ND	0.10	0.067	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 18:09	BJH
Aroclor-1232 [1]	ND	0.10	0.047	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 18:09	BJH
Aroclor-1242 [1]	ND	0.10	0.052	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 18:09	BJH
Aroclor-1248 [1]	ND	0.10	0.062	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 18:09	BJH
Aroclor-1254 [1]	ND	0.10	0.067	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 18:09	BJH
Aroclor-1260 [1]	ND	0.10	0.072	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 18:09	BJH
Aroclor-1262 [1]	ND	0.10	0.052	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 18:09	BJH
Aroclor-1268 [1]	ND	0.10	0.041	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 18:09	BJH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	79.2	30-150		3/24/16 18:09
Decachlorobiphenyl [2]	82.2	30-150		3/24/16 18:09
Tetrachloro-m-xylene [1]	85.0	30-150		3/24/16 18:09
Tetrachloro-m-xylene [2]	96.1	30-150		3/24/16 18:09

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Sampled: 3/19/2016 11:36
Sample ID: 16C0970-04
Sample Matrix: Soil

Herbicides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-D [2]	ND	26	8.5	µg/kg dry	1		SW-846 8151A	3/22/16	3/26/16 23:08	JMB
2,4,5-TP (Silvex) [2]	ND	2.6	1.6	µg/kg dry	1		SW-846 8151A	3/22/16	3/26/16 23:08	JMB
2,4,5-T [2]	ND	2.6	1.1	µg/kg dry	1		SW-846 8151A	3/22/16	3/26/16 23:08	JMB
Dalapon [2]	ND	64	9.9	µg/kg dry	1	V-20	SW-846 8151A	3/22/16	3/26/16 23:08	JMB
Dicamba [2]	ND	2.6	1.3	µg/kg dry	1		SW-846 8151A	3/22/16	3/26/16 23:08	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2,4-Dichlorophenylacetic acid [1]	86.5	30-150		3/26/16 23:08
2,4-Dichlorophenylacetic acid [2]	85.8	30-150		3/26/16 23:08

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Sampled: 3/19/2016 11:36
Sample ID: 16C0970-04
Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Gasoline Range Organics (GRO)	ND	2.7	2.6	mg/Kg dry	1		SW-846 8015C	3/24/16	3/24/16 16:22	EEH
Diesel Range Organics	2.4	8.6	1.9	mg/Kg dry	1	J	SW-846 8015C	3/22/16	3/23/16 11:21	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1-Chloro-3-fluorobenzene	77.9	70-130		3/24/16 16:22
o-Terphenyl	60.4	40-140		3/23/16 11:21

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Sampled: 3/19/2016 11:36
Sample ID: 16C0970-04
Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	4600	2.4	2.0	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 13:48	AME
Antimony	ND	2.4	0.89	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 13:48	AME
Arsenic	2.3	2.4	0.44	mg/Kg dry	1	J	SW-846 6010C-D	3/22/16	3/25/16 13:48	AME
Barium	970	2.4	0.74	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 13:48	AME
Beryllium	0.51	0.24	0.19	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 13:48	AME
Cadmium	0.43	0.24	0.11	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 13:48	AME
Calcium	4700	7.2	4.3	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/28/16 19:27	AME
Chromium	11	0.48	0.23	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 13:48	AME
Cobalt	4.2	2.4	0.74	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 13:48	AME
Copper	18	0.48	0.17	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 13:48	AME
Iron	11000	2.4	1.3	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 13:48	AME
Lead	1300	0.72	0.25	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/28/16 19:27	AME
Magnesium	3700	7.2	3.6	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 13:48	AME
Manganese	310	0.48	0.34	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 13:48	AME
Mercury	0.052	0.025	0.0043	mg/Kg dry	1		SW-846 7471B	3/22/16	3/23/16 15:12	TGW
Nickel	9.7	0.48	0.14	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 13:48	AME
Potassium	620	96	13	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 13:48	AME
Selenium	ND	4.8		mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 13:48	AME
Silver	ND	0.48	0.38	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 13:48	AME
Sodium	94	96	34	mg/Kg dry	1	J	SW-846 6010C-D	3/22/16	3/25/16 13:48	AME
Thallium	ND	2.4	1.6	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 13:48	AME
Vanadium	13	0.96	0.28	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 13:48	AME
Zinc	62	0.96	0.79	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 13:48	AME

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Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-1 (10-12)
Sampled: 3/19/2016 11:36
Sample ID: 16C0970-04
Sample Matrix: Soil

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

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	ND	0.41	0.20	mg/Kg dry	1		SW-846 9014	3/24/16	3/25/16 10:50	VAK
Hexavalent Chromium	ND	0.16	0.12	mg/Kg dry	1		SW-846 7196A	3/25/16	3/28/16 11:20	LL
Ignitability	Absent			present/absent	1		SW-846 1030	3/23/16	3/23/16 19:35	DJM
pH @22.2°C	7.8			pH Units	1	H-03	SW-846 9045C	3/23/16	3/23/16 7:55	LL
Reactive Cyanide	ND	4.0	4.0	mg/Kg	1		SW-846 9014	3/24/16	3/25/16 16:30	AG
Reactive Sulfide	ND	20	20	mg/Kg	1		SW-846 9030A	3/24/16	3/25/16 16:30	AG
% Solids	96.6			% Wt	1		SM 2540G	3/22/16	3/23/16 8:20	MRL

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Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-2 (1-3)
Sampled: 3/19/2016 13:54
Sample ID: 16C0970-05
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.14	0.033	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 11:05	MFF
Benzene	ND	0.0028	0.0010	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 11:05	MFF
Bromochloromethane	ND	0.0028	0.0020	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 11:05	MFF
Bromodichloromethane	ND	0.0028	0.00085	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 11:05	MFF
Bromoform	ND	0.0028	0.0020	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 11:05	MFF
Bromomethane	ND	0.014	0.0024	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 11:05	MFF
2-Butanone (MEK)	ND	0.057	0.025	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 11:05	MFF
Carbon Disulfide	ND	0.0085	0.0050	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 11:05	MFF
Carbon Tetrachloride	ND	0.0028	0.0011	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 11:05	MFF
Chlorobenzene	ND	0.0028	0.0010	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 11:05	MFF
Chlorodibromomethane	ND	0.0014	0.0010	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 11:05	MFF
Chloroethane	ND	0.028	0.0021	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 11:05	MFF
Chloroform	ND	0.0057	0.0010	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 11:05	MFF
Chloromethane	ND	0.014	0.0013	mg/Kg dry	1	L-04, V-05	SW-846 8260C	3/23/16	3/23/16 11:05	MFF
Cyclohexane	ND	0.0028	0.0011	mg/Kg dry	1	V-05	SW-846 8260C	3/23/16	3/23/16 11:05	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0028	0.0016	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 11:05	MFF
1,2-Dibromoethane (EDB)	ND	0.0014	0.0014	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 11:05	MFF
1,2-Dichlorobenzene	ND	0.0028	0.0010	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 11:05	MFF
1,3-Dichlorobenzene	ND	0.0028	0.0010	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 11:05	MFF
1,4-Dichlorobenzene	ND	0.0028	0.0011	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 11:05	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.028	0.0019	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 11:05	MFF
1,1-Dichloroethane	ND	0.0028	0.0010	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 11:05	MFF
1,2-Dichloroethane	ND	0.0028	0.0019	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 11:05	MFF
1,1-Dichloroethylene	ND	0.0057	0.0016	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 11:05	MFF
cis-1,2-Dichloroethylene	ND	0.0028	0.0011	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 11:05	MFF
trans-1,2-Dichloroethylene	ND	0.0028	0.0013	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 11:05	MFF
1,2-Dichloropropane	ND	0.0028	0.0019	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 11:05	MFF
cis-1,3-Dichloropropene	ND	0.0014	0.0010	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 11:05	MFF
trans-1,3-Dichloropropene	ND	0.0014	0.0010	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 11:05	MFF
Ethylbenzene	ND	0.0028	0.0011	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 11:05	MFF
2-Hexanone (MBK)	ND	0.028	0.016	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 11:05	MFF
Isopropylbenzene (Cumene)	ND	0.0028	0.0010	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 11:05	MFF
Methyl Acetate	ND	0.0028	0.0023	mg/Kg dry	1	V-05	SW-846 8260C	3/23/16	3/23/16 11:05	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0057	0.0013	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 11:05	MFF
Methyl Cyclohexane	ND	0.0028	0.0014	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 11:05	MFF
Methylene Chloride	ND	0.028	0.010	mg/Kg dry	1	V-05	SW-846 8260C	3/23/16	3/23/16 11:05	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.028	0.011	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 11:05	MFF
Styrene	ND	0.0028	0.00085	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 11:05	MFF
1,1,2,2-Tetrachloroethane	ND	0.0014	0.0013	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 11:05	MFF
Tetrachloroethylene	ND	0.0028	0.0019	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 11:05	MFF
Toluene	ND	0.0028	0.0011	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 11:05	MFF
1,2,3-Trichlorobenzene	ND	0.0028	0.00085	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 11:05	MFF
1,2,4-Trichlorobenzene	ND	0.0028	0.0011	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 11:05	MFF
1,1,1-Trichloroethane	ND	0.0028	0.0014	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 11:05	MFF

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-2 (1-3)
Sampled: 3/19/2016 13:54
Sample ID: 16C0970-05
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,2-Trichloroethane	ND	0.0028	0.0017	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 11:05	MFF
Trichloroethylene	ND	0.0028	0.0014	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 11:05	MFF
Trichlorofluoromethane (Freon 11)	ND	0.014	0.0016	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 11:05	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.014	0.0013	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 11:05	MFF
Vinyl Chloride	ND	0.014	0.0016	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 11:05	MFF
m+p Xylene	ND	0.0057	0.0024	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 11:05	MFF
o-Xylene	ND	0.0028	0.0010	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 11:05	MFF
Xylenes (total)	ND	0.0085		mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 11:05	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	117	70-130		3/23/16 11:05
Toluene-d8	92.4	70-130		3/23/16 11:05
4-Bromofluorobenzene	98.5	70-130		3/23/16 11:05

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Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-2 (1-3)
Sampled: 3/19/2016 13:54
Sample ID: 16C0970-05
Sample Matrix: Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg dry			1			SW-846 8260C	3/23/16	3/23/16 11:05	MFF

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

Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-2 (1-3)
Sampled: 3/19/2016 13:54
Sample ID: 16C0970-05
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Atrazine	ND	0.76	0.64	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 18:30	CMR
Benzaldehyde	ND	0.38	0.37	mg/Kg dry	1	V-20	SW-846 8270D	3/23/16	3/24/16 18:30	CMR
Biphenyl	ND	0.76	0.48	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 18:30	CMR
Caprolactam	ND	0.38	0.29	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 18:30	CMR
Acenaphthene	0.26	0.19	0.058	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 18:30	CMR
Acenaphthylene	0.11	0.19	0.064	mg/Kg dry	1	J	SW-846 8270D	3/23/16	3/24/16 18:30	CMR
Acetophenone	ND	0.38	0.076	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 18:30	CMR
Anthracene	0.59	0.19	0.055	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 18:30	CMR
Benzo(a)anthracene	1.9	0.19	0.051	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 18:30	CMR
Benzo(a)pyrene	1.8	0.19	0.060	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 18:30	CMR
Benzo(b)fluoranthene	2.1	0.19	0.054	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 18:30	CMR
Benzo(g,h,i)perylene	1.0	0.19	0.085	mg/Kg dry	1	V-05	SW-846 8270D	3/23/16	3/24/16 18:30	CMR
Benzo(k)fluoranthene	0.80	0.19	0.060	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 18:30	CMR
Bis(2-chloroethoxy)methane	ND	0.38	0.074	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 18:30	CMR
Bis(2-chloroethyl)ether	ND	0.38	0.076	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 18:30	CMR
Bis(2-chloroisopropyl)ether	ND	0.38	0.083	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 18:30	CMR
Bis(2-Ethylhexyl)phthalate	0.20	0.38	0.15	mg/Kg dry	1	J	SW-846 8270D	3/23/16	3/24/16 18:30	CMR
4-Bromophenylphenylether	ND	0.38	0.064	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 18:30	CMR
Butylbenzylphthalate	ND	0.38	0.092	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 18:30	CMR
Carbazole	0.26	0.19	0.050	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 18:30	CMR
4-Chloroaniline	ND	0.75	0.088	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 18:30	CMR
4-Chloro-3-methylphenol	ND	0.75	0.083	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 18:30	CMR
2-Chloronaphthalene	ND	0.38	0.072	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 18:30	CMR
2-Chlorophenol	ND	0.38	0.069	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 18:30	CMR
4-Chlorophenylphenylether	ND	0.38	0.064	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 18:30	CMR
Chrysene	1.7	0.19	0.060	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 18:30	CMR
Dibenz(a,h)anthracene	0.22	0.19	0.12	mg/Kg dry	1	V-05	SW-846 8270D	3/23/16	3/24/16 18:30	CMR
Dibenzofuran	0.14	0.38	0.067	mg/Kg dry	1	J	SW-846 8270D	3/23/16	3/24/16 18:30	CMR
Di-n-butylphthalate	ND	0.38	0.084	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 18:30	CMR
3,3-Dichlorobenzidine	ND	0.19	0.059	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 18:30	CMR
2,4-Dichlorophenol	ND	0.38	0.066	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 18:30	CMR
Diethylphthalate	ND	0.38	0.069	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 18:30	CMR
2,4-Dimethylphenol	ND	0.38	0.071	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 18:30	CMR
Dimethylphthalate	ND	0.38	0.068	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 18:30	CMR
4,6-Dinitro-2-methylphenol	ND	0.38	0.37	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 18:30	CMR
2,4-Dinitrophenol	ND	0.75	0.22	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 18:30	CMR
2,4-Dinitrotoluene	ND	0.38	0.062	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 18:30	CMR
2,6-Dinitrotoluene	ND	0.38	0.068	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 18:30	CMR
Di-n-octylphthalate	ND	0.38	0.20	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 18:30	CMR
Fluoranthene	3.8	0.38	0.13	mg/Kg dry	2		SW-846 8270D	3/23/16	3/26/16 20:33	CMR
Fluorene	0.19	0.19	0.062	mg/Kg dry	1	J	SW-846 8270D	3/23/16	3/24/16 18:30	CMR
Hexachlorobenzene	ND	0.38	0.068	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 18:30	CMR
Hexachlorobutadiene	ND	0.38	0.068	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 18:30	CMR
Hexachlorocyclopentadiene	ND	0.38	0.081	mg/Kg dry	1	V-05	SW-846 8270D	3/23/16	3/24/16 18:30	CMR

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

Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-2 (1-3)
Sampled: 3/19/2016 13:54
Sample ID: 16C0970-05
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachloroethane	ND	0.38	0.077	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 18:30	CMR
Indeno(1,2,3-cd)pyrene	1.0	0.19	0.14	mg/Kg dry	1	V-05	SW-846 8270D	3/23/16	3/24/16 18:30	CMR
Isophorone	ND	0.38	0.075	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 18:30	CMR
2-Methylnaphthalene	ND	0.19	0.067	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 18:30	CMR
2-Methylphenol	ND	0.38	0.096	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 18:30	CMR
3/4-Methylphenol	ND	0.38	0.12	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 18:30	CMR
Naphthalene	0.10	0.19	0.098	mg/Kg dry	1	J	SW-846 8270D	3/23/16	3/24/16 18:30	CMR
2-Nitroaniline	ND	0.38	0.064	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 18:30	CMR
3-Nitroaniline	ND	0.38	0.055	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 18:30	CMR
4-Nitroaniline	ND	0.38	0.064	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 18:30	CMR
4-Nitroaniline	ND	0.77	0.13	mg/Kg dry	2		SW-846 8270D	3/23/16	3/26/16 20:33	CMR
Nitrobenzene	ND	0.38	0.072	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 18:30	CMR
2-Nitrophenol	ND	0.38	0.10	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 18:30	CMR
4-Nitrophenol	ND	0.75	0.084	mg/Kg dry	1	V-20	SW-846 8270D	3/23/16	3/24/16 18:30	CMR
N-Nitrosodiphenylamine	ND	0.38	0.079	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 18:30	CMR
N-Nitrosodi-n-propylamine	ND	0.38	0.079	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 18:30	CMR
Pentachlorophenol	ND	0.38	0.093	mg/Kg dry	1	V-05	SW-846 8270D	3/23/16	3/24/16 18:30	CMR
Phenanthrene	3.6	0.19	0.10	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 18:30	CMR
Phenol	ND	0.38	0.066	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 18:30	CMR
Pyrene	4.3	0.38	0.13	mg/Kg dry	2		SW-846 8270D	3/23/16	3/26/16 20:33	CMR
1,2,4,5-Tetrachlorobenzene	ND	0.38	0.069	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 18:30	CMR
2,4,5-Trichlorophenol	ND	0.38	0.087	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 18:30	CMR
2,4,6-Trichlorophenol	ND	0.38	0.064	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 18:30	CMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	62.0	30-130		3/24/16 18:30
Phenol-d6	68.7	30-130		3/24/16 18:30
Nitrobenzene-d5	71.6	30-130		3/24/16 18:30
2-Fluorobiphenyl	70.6	30-130		3/24/16 18:30
2,4,6-Tribromophenol	67.9	30-130		3/24/16 18:30
p-Terphenyl-d14	84.0	30-130		3/24/16 18:30

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

Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-2 (1-3)
Sampled: 3/19/2016 13:54
Sample ID: 16C0970-05
Sample Matrix: Soil

Tentatively Identified Compounds - SV Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
11H-Benzo[b]fluorene	0.34	mg/Kg dry	595126	6.417	1	000243-17-4	97	SW-846 8270D	3/23/16	3/24/16 18:30	CMR
Benzaldehyde, 3,5-dichloro-...	0.60	mg/Kg dry	525582	5.665	1	000090-60-8	72	SW-846 8270D	3/23/16	3/24/16 18:30	CMR
Benzo[e]pyrene	1.2	mg/Kg dry	644621	8.958	1	000192-97-2	94	SW-846 8270D	3/23/16	3/24/16 18:30	CMR
Phenanthrene, 1-methyl-	0.40	mg/Kg dry	346310	5.598	1	000832-69-9	97	SW-846 8270D	3/23/16	3/24/16 18:30	CMR
Phenanthrene, 2-methyl-	0.49	mg/Kg dry	424547	5.616	1	002531-84-2	97	SW-846 8270D	3/23/16	3/24/16 18:30	CMR
Pyrene, 2-methyl-	0.25	mg/Kg dry	429145	6.494	1	003442-78-2	91	SW-846 8270D	3/23/16	3/24/16 18:30	CMR

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

Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-2 (1-3)
Sampled: 3/19/2016 13:54
Sample ID: 16C0970-05
Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-Chlordane [1]	ND	0.0057	0.00032	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 3:32	PJG
gamma-Chlordane [1]	ND	0.0057	0.00032	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 3:32	PJG
Alachlor [1]	ND	0.023	0.0012	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 3:32	PJG
Aldrin [1]	ND	0.0057	0.00034	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 3:32	PJG
alpha-BHC [1]	ND	0.0057	0.00045	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 3:32	PJG
beta-BHC [1]	ND	0.0057	0.00057	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 3:32	PJG
delta-BHC [1]	ND	0.0057	0.00045	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 3:32	PJG
gamma-BHC (Lindane) [1]	ND	0.0023	0.00057	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 3:32	PJG
Chlordane [1]	ND	0.023	0.0066	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 3:32	PJG
4,4'-DDD [1]	0.054	0.0045	0.00045	mg/Kg dry	1	P-05, V-24	SW-846 8081B	3/22/16	3/25/16 3:32	PJG
4,4'-DDE [1]	0.00087	0.0045	0.00034	mg/Kg dry	1	P-01, J, V-24	SW-846 8081B	3/22/16	3/25/16 3:32	PJG
4,4'-DDT [1]	0.0098	0.0045	0.00045	mg/Kg dry	1	P-05, V-24	SW-846 8081B	3/22/16	3/25/16 3:32	PJG
Dieldrin [1]	ND	0.0045	0.00034	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 3:32	PJG
Endosulfan I [1]	ND	0.0057	0.00045	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 3:32	PJG
Endosulfan II [1]	0.0023	0.0090	0.00034	mg/Kg dry	1	J, P-08	SW-846 8081B	3/22/16	3/25/16 3:32	PJG
Endosulfan sulfate [1]	ND	0.0090	0.0015	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 3:32	PJG
Endrin [1]	ND	0.0090	0.00034	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 3:32	PJG
Endrin aldehyde [1]	0.0079	0.0090	0.0014	mg/Kg dry	1	J	SW-846 8081B	3/22/16	3/25/16 3:32	PJG
Endrin ketone [1]	ND	0.0090	0.00045	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 3:32	PJG
Heptachlor [1]	ND	0.0057	0.00057	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 3:32	PJG
Heptachlor epoxide [1]	ND	0.0057	0.00045	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 3:32	PJG
Hexachlorobenzene [1]	ND	0.0068	0.00079	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 3:32	PJG
Methoxychlor [1]	ND	0.057	0.00068	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 3:32	PJG
Toxaphene [1]	ND	0.11	0.049	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 3:32	PJG

Surrogates	% Recovery		Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	99.2		30-150		3/25/16 3:32
Decachlorobiphenyl [2]	**168**	*	30-150	S-02	3/25/16 3:32
Tetrachloro-m-xylene [1]	80.8		30-150		3/25/16 3:32
Tetrachloro-m-xylene [2]	76.1		30-150		3/25/16 3:32

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Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-2 (1-3)
Sampled: 3/19/2016 13:54
Sample ID: 16C0970-05
Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	0.068	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 18:21	BJH
Aroclor-1221 [1]	ND	0.11	0.074	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 18:21	BJH
Aroclor-1232 [1]	ND	0.11	0.051	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 18:21	BJH
Aroclor-1242 [1]	ND	0.11	0.057	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 18:21	BJH
Aroclor-1248 [1]	ND	0.11	0.068	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 18:21	BJH
Aroclor-1254 [1]	ND	0.11	0.074	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 18:21	BJH
Aroclor-1260 [1]	ND	0.11	0.079	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 18:21	BJH
Aroclor-1262 [1]	ND	0.11	0.057	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 18:21	BJH
Aroclor-1268 [1]	ND	0.11	0.045	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 18:21	BJH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	90.8	30-150		3/24/16 18:21
Decachlorobiphenyl [2]	96.4	30-150		3/24/16 18:21
Tetrachloro-m-xylene [1]	94.3	30-150		3/24/16 18:21
Tetrachloro-m-xylene [2]	102	30-150		3/24/16 18:21

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Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-2 (1-3)
Sampled: 3/19/2016 13:54
Sample ID: 16C0970-05
Sample Matrix: Soil

Herbicides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-D [2]	ND	28	9.4	µg/kg dry	1		SW-846 8151A	3/22/16	3/26/16 23:47	JMB
2,4,5-TP (Silvex) [2]	ND	2.8	1.7	µg/kg dry	1		SW-846 8151A	3/22/16	3/26/16 23:47	JMB
2,4,5-T [2]	ND	2.8	1.2	µg/kg dry	1		SW-846 8151A	3/22/16	3/26/16 23:47	JMB
Dalapon [2]	ND	71	11	µg/kg dry	1	V-20	SW-846 8151A	3/22/16	3/26/16 23:47	JMB
Dicamba [2]	ND	2.8	1.4	µg/kg dry	1		SW-846 8151A	3/22/16	3/26/16 23:47	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2,4-Dichlorophenylacetic acid [1]	113	30-150		3/26/16 23:47
2,4-Dichlorophenylacetic acid [2]	95.5	30-150		3/26/16 23:47

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Project Location: 450Q
Sample Description:
Work Order: 16C0970

Date Received: 3/21/2016

Field Sample #: TRC-SB-2 (1-3)
Sampled: 3/19/2016 13:54

Sample ID: 16C0970-05

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Gasoline Range Organics (GRO)	ND	1.3	1.3	mg/Kg dry	1		SW-846 8015C	3/24/16	3/24/16 18:46	EEH
Diesel Range Organics	740	190	42	mg/Kg dry	20		SW-846 8015C	3/22/16	3/23/16 12:50	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1-Chloro-3-fluorobenzene	73.4	70-130		3/24/16 18:46
o-Terphenyl	*	40-140	S-01	3/23/16 12:50

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Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-2 (1-3)
Sampled: 3/19/2016 13:54
Sample ID: 16C0970-05
Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	7900	2.7	2.3	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 13:54	AME
Antimony	ND	2.7	1.0	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 13:54	AME
Arsenic	8.4	2.7	0.50	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 13:54	AME
Barium	3300	14	4.2	mg/Kg dry	5		SW-846 6010C-D	3/22/16	3/28/16 18:41	AME
Beryllium	0.75	0.27	0.22	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 13:54	AME
Cadmium	1.7	0.27	0.13	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 13:54	AME
Calcium	5000	8.2	4.9	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/28/16 19:31	AME
Chromium	36	0.55	0.26	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 13:54	AME
Cobalt	5.5	2.7	0.84	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 13:54	AME
Copper	42	0.55	0.20	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 13:54	AME
Iron	13000	2.7	1.5	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 13:54	AME
Lead	9900	4.1	1.4	mg/Kg dry	5		SW-846 6010C-D	3/22/16	3/28/16 18:41	AME
Magnesium	2100	8.2	4.1	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 13:54	AME
Manganese	250	0.55	0.38	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 13:54	AME
Mercury	0.72	0.14	0.024	mg/Kg dry	5		SW-846 7471B	3/22/16	3/23/16 15:47	TGW
Nickel	11	0.55	0.16	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 13:54	AME
Potassium	680	110	15	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 13:54	AME
Selenium	ND	5.5		mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 13:54	AME
Silver	0.45	0.55	0.43	mg/Kg dry	1	J	SW-846 6010C-D	3/22/16	3/25/16 13:54	AME
Sodium	200	110	38	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 13:54	AME
Thallium	ND	2.7	1.8	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 13:54	AME
Vanadium	21	1.1	0.32	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 13:54	AME
Zinc	670	1.1	0.89	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 13:54	AME

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Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-2 (1-3)
Sampled: 3/19/2016 13:54
Sample ID: 16C0970-05
Sample Matrix: Soil

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

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	ND	0.44	0.21	mg/Kg dry	1		SW-846 9014	3/24/16	3/25/16 10:50	VAK
Hexavalent Chromium	ND	0.36	0.27	mg/Kg dry	2	DL-03	SW-846 7196A	3/25/16	3/28/16 11:20	LL
Ignitability	Absent			present/absent	1		SW-846 1030	3/23/16	3/23/16 19:35	DJM
pH @21°C	7.1			pH Units	1	H-03	SW-846 9045C	3/23/16	3/23/16 7:55	LL
Reactive Cyanide	ND	4.0	4.0	mg/Kg	1		SW-846 9014	3/24/16	3/25/16 16:30	AG
Reactive Sulfide	ND	20	20	mg/Kg	1		SW-846 9030A	3/24/16	3/25/16 16:30	AG
% Solids	88.4			% Wt	1		SM 2540G	3/22/16	3/23/16 8:20	MRL

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Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-2 (10-12)
Sampled: 3/19/2016 13:58
Sample ID: 16C0970-06
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	0.032	0.12	0.027	mg/Kg dry	1	J	SW-846 8260C	3/23/16	3/23/16 11:32	MFF
Benzene	ND	0.0023	0.00081	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 11:32	MFF
Bromochloromethane	ND	0.0023	0.0016	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 11:32	MFF
Bromodichloromethane	ND	0.0023	0.00070	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 11:32	MFF
Bromoform	ND	0.0023	0.0016	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 11:32	MFF
Bromomethane	ND	0.012	0.0020	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 11:32	MFF
2-Butanone (MEK)	ND	0.046	0.020	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 11:32	MFF
Carbon Disulfide	ND	0.0070	0.0041	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 11:32	MFF
Carbon Tetrachloride	ND	0.0023	0.00093	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 11:32	MFF
Chlorobenzene	ND	0.0023	0.00081	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 11:32	MFF
Chlorodibromomethane	ND	0.0012	0.00081	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 11:32	MFF
Chloroethane	ND	0.023	0.0017	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 11:32	MFF
Chloroform	ND	0.0046	0.00081	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 11:32	MFF
Chloromethane	ND	0.012	0.0010	mg/Kg dry	1	L-04, V-05	SW-846 8260C	3/23/16	3/23/16 11:32	MFF
Cyclohexane	ND	0.0023	0.00093	mg/Kg dry	1	V-05	SW-846 8260C	3/23/16	3/23/16 11:32	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0023	0.0013	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 11:32	MFF
1,2-Dibromoethane (EDB)	ND	0.0012	0.0012	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 11:32	MFF
1,2-Dichlorobenzene	ND	0.0023	0.00081	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 11:32	MFF
1,3-Dichlorobenzene	ND	0.0023	0.00081	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 11:32	MFF
1,4-Dichlorobenzene	ND	0.0023	0.00093	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 11:32	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.023	0.0015	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 11:32	MFF
1,1-Dichloroethane	ND	0.0023	0.00081	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 11:32	MFF
1,2-Dichloroethane	ND	0.0023	0.0015	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 11:32	MFF
1,1-Dichloroethylene	ND	0.0046	0.0013	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 11:32	MFF
cis-1,2-Dichloroethylene	ND	0.0023	0.00093	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 11:32	MFF
trans-1,2-Dichloroethylene	ND	0.0023	0.0010	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 11:32	MFF
1,2-Dichloropropane	ND	0.0023	0.0015	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 11:32	MFF
cis-1,3-Dichloropropene	ND	0.0012	0.00081	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 11:32	MFF
trans-1,3-Dichloropropene	ND	0.0012	0.00081	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 11:32	MFF
Ethylbenzene	ND	0.0023	0.00093	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 11:32	MFF
2-Hexanone (MBK)	ND	0.023	0.013	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 11:32	MFF
Isopropylbenzene (Cumene)	ND	0.0023	0.00081	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 11:32	MFF
Methyl Acetate	ND	0.0023	0.0019	mg/Kg dry	1	V-05	SW-846 8260C	3/23/16	3/23/16 11:32	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0046	0.0010	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 11:32	MFF
Methyl Cyclohexane	ND	0.0023	0.0012	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 11:32	MFF
Methylene Chloride	ND	0.023	0.0082	mg/Kg dry	1	V-05	SW-846 8260C	3/23/16	3/23/16 11:32	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.023	0.0088	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 11:32	MFF
Styrene	ND	0.0023	0.00070	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 11:32	MFF
1,1,2,2-Tetrachloroethane	ND	0.0012	0.0010	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 11:32	MFF
Tetrachloroethylene	ND	0.0023	0.0015	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 11:32	MFF
Toluene	ND	0.0023	0.00093	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 11:32	MFF
1,2,3-Trichlorobenzene	ND	0.0023	0.00070	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 11:32	MFF
1,2,4-Trichlorobenzene	ND	0.0023	0.00093	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 11:32	MFF
1,1,1-Trichloroethane	ND	0.0023	0.0012	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 11:32	MFF

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Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-2 (10-12)
Sampled: 3/19/2016 13:58
Sample ID: 16C0970-06
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,2-Trichloroethane	ND	0.0023	0.0014	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 11:32	MFF
Trichloroethylene	ND	0.0023	0.0012	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 11:32	MFF
Trichlorofluoromethane (Freon 11)	ND	0.012	0.0013	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 11:32	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.012	0.0010	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 11:32	MFF
Vinyl Chloride	ND	0.012	0.0013	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 11:32	MFF
m+p Xylene	ND	0.0046	0.0020	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 11:32	MFF
o-Xylene	ND	0.0023	0.00081	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 11:32	MFF
Xylenes (total)	ND	0.0070		mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 11:32	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	116	70-130		3/23/16 11:32
Toluene-d8	94.9	70-130		3/23/16 11:32
4-Bromofluorobenzene	97.8	70-130		3/23/16 11:32

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Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-2 (10-12)
Sampled: 3/19/2016 13:58
Sample ID: 16C0970-06
Sample Matrix: Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg dry			1			SW-846 8260C	3/23/16	3/23/16 11:32	MFF

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-2 (10-12)
Sampled: 3/19/2016 13:58
Sample ID: 16C0970-06
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Atrazine	ND	0.77	0.65	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 11:21	CMR
Benzaldehyde	ND	0.39	0.37	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 11:21	CMR
Biphenyl	ND	0.77	0.49	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 11:21	CMR
Caprolactam	ND	0.39	0.29	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 11:21	CMR
Acenaphthene	0.087	0.19	0.058	mg/Kg dry	1	J	SW-846 8270D	3/23/16	3/28/16 11:21	BGL
Acenaphthylene	ND	0.19	0.065	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 11:21	BGL
Acetophenone	ND	0.39	0.077	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 11:21	BGL
Anthracene	0.17	0.19	0.056	mg/Kg dry	1	J	SW-846 8270D	3/23/16	3/28/16 11:21	BGL
Benzo(a)anthracene	0.39	0.19	0.051	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 11:21	BGL
Benzo(a)pyrene	0.34	0.19	0.061	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 11:21	BGL
Benzo(b)fluoranthene	0.42	0.19	0.055	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 11:21	BGL
Benzo(g,h,i)perylene	0.21	0.19	0.086	mg/Kg dry	1	V-05	SW-846 8270D	3/23/16	3/28/16 11:21	BGL
Benzo(k)fluoranthene	0.17	0.19	0.061	mg/Kg dry	1	J	SW-846 8270D	3/23/16	3/28/16 11:21	BGL
Bis(2-chloroethoxy)methane	ND	0.39	0.074	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 11:21	BGL
Bis(2-chloroethyl)ether	ND	0.39	0.077	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 11:21	BGL
Bis(2-chloroisopropyl)ether	ND	0.39	0.084	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 11:21	BGL
Bis(2-Ethylhexyl)phthalate	0.22	0.39	0.15	mg/Kg dry	1	J	SW-846 8270D	3/23/16	3/28/16 11:21	BGL
4-Bromophenylphenylether	ND	0.39	0.065	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 11:21	BGL
Butylbenzylphthalate	ND	0.39	0.093	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 11:21	BGL
Carbazole	ND	0.19	0.050	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 11:21	BGL
4-Chloroaniline	ND	0.76	0.089	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 11:21	BGL
4-Chloro-3-methylphenol	ND	0.76	0.084	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 11:21	BGL
2-Chloronaphthalene	ND	0.39	0.073	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 11:21	BGL
2-Chlorophenol	ND	0.39	0.070	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 11:21	BGL
4-Chlorophenylphenylether	ND	0.39	0.065	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 11:21	BGL
Chrysene	0.43	0.19	0.061	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 11:21	BGL
Dibenz(a,h)anthracene	ND	0.19	0.12	mg/Kg dry	1	V-05	SW-846 8270D	3/23/16	3/28/16 11:21	BGL
Dibenzofuran	0.069	0.39	0.068	mg/Kg dry	1	J	SW-846 8270D	3/23/16	3/28/16 11:21	BGL
Di-n-butylphthalate	ND	0.39	0.085	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 11:21	BGL
3,3-Dichlorobenzidine	ND	0.19	0.059	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 11:21	BGL
2,4-Dichlorophenol	ND	0.39	0.066	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 11:21	BGL
Diethylphthalate	ND	0.39	0.070	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 11:21	BGL
2,4-Dimethylphenol	ND	0.39	0.072	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 11:21	BGL
Dimethylphthalate	ND	0.39	0.069	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 11:21	BGL
4,6-Dinitro-2-methylphenol	ND	0.39	0.37	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 11:21	BGL
2,4-Dinitrophenol	ND	0.76	0.22	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 11:21	BGL
2,4-Dinitrotoluene	ND	0.39	0.063	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 11:21	BGL
2,6-Dinitrotoluene	ND	0.39	0.069	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 11:21	BGL
Di-n-octylphthalate	ND	0.39	0.20	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 11:21	BGL
Fluoranthene	0.83	0.19	0.064	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 11:21	BGL
Fluorene	0.11	0.19	0.063	mg/Kg dry	1	J	SW-846 8270D	3/23/16	3/28/16 11:21	BGL
Hexachlorobenzene	ND	0.39	0.069	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 11:21	BGL
Hexachlorobutadiene	ND	0.39	0.069	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 11:21	BGL
Hexachlorocyclopentadiene	ND	0.39	0.082	mg/Kg dry	1	V-05	SW-846 8270D	3/23/16	3/28/16 11:21	BGL

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

Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-2 (10-12)
Sampled: 3/19/2016 13:58
Sample ID: 16C0970-06
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachloroethane	ND	0.39	0.078	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 11:21	BGL
Indeno(1,2,3-cd)pyrene	0.20	0.19	0.14	mg/Kg dry	1	V-05	SW-846 8270D	3/23/16	3/28/16 11:21	BGL
Isophorone	ND	0.39	0.076	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 11:21	BGL
2-Methylnaphthalene	ND	0.19	0.068	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 11:21	BGL
2-Methylphenol	ND	0.39	0.097	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 11:21	BGL
3/4-Methylphenol	ND	0.39	0.12	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 11:21	BGL
Naphthalene	0.16	0.19	0.10	mg/Kg dry	1	J	SW-846 8270D	3/23/16	3/28/16 11:21	BGL
2-Nitroaniline	ND	0.39	0.065	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 11:21	BGL
3-Nitroaniline	ND	0.39	0.056	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 11:21	BGL
4-Nitroaniline	ND	0.39	0.065	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 11:21	BGL
Nitrobenzene	ND	0.39	0.073	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 11:21	BGL
2-Nitrophenol	ND	0.39	0.10	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 11:21	BGL
4-Nitrophenol	ND	0.76	0.085	mg/Kg dry	1	V-20	SW-846 8270D	3/23/16	3/28/16 11:21	BGL
N-Nitrosodiphenylamine	ND	0.39	0.080	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 11:21	BGL
N-Nitrosodi-n-propylamine	ND	0.39	0.080	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 11:21	BGL
Pentachlorophenol	ND	0.39	0.094	mg/Kg dry	1	V-05	SW-846 8270D	3/23/16	3/28/16 11:21	BGL
Phenanthrene	0.85	0.19	0.10	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 11:21	BGL
Phenol	ND	0.39	0.066	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 11:21	BGL
Pyrene	1.2	0.19	0.064	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 11:21	BGL
1,2,4,5-Tetrachlorobenzene	ND	0.39	0.070	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 11:21	BGL
2,4,5-Trichlorophenol	ND	0.39	0.088	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 11:21	BGL
2,4,6-Trichlorophenol	ND	0.39	0.065	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 11:21	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	48.2	30-130		3/28/16 11:21
Phenol-d6	51.6	30-130		3/28/16 11:21
Nitrobenzene-d5	49.4	30-130		3/28/16 11:21
2-Fluorobiphenyl	54.9	30-130		3/28/16 11:21
2,4,6-Tribromophenol	49.8	30-130		3/28/16 11:21
p-Terphenyl-d14	62.2	30-130		3/28/16 11:21

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Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-2 (10-12)
Sampled: 3/19/2016 13:58
Sample ID: 16C0970-06
Sample Matrix: Soil

Tentatively Identified Compounds - SV Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg dry			1			SW-846 8270D	3/23/16	3/28/16 11:21	BGL

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Sample ID: 16C0970-06
Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-Chlordane [1]	ND	0.0057	0.00032	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 3:54	PJG
gamma-Chlordane [1]	ND	0.0057	0.00032	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 3:54	PJG
Alachlor [1]	ND	0.023	0.0013	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 3:54	PJG
Aldrin [1]	ND	0.0057	0.00034	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 3:54	PJG
alpha-BHC [1]	ND	0.0057	0.00046	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 3:54	PJG
beta-BHC [1]	ND	0.0057	0.00057	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 3:54	PJG
delta-BHC [1]	ND	0.0057	0.00046	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 3:54	PJG
gamma-BHC (Lindane) [1]	ND	0.0023	0.00057	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 3:54	PJG
Chlordane [1]	ND	0.023	0.0066	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 3:54	PJG
4,4'-DDD [2]	ND	0.0046	0.00046	mg/Kg dry	1	V-20	SW-846 8081B	3/22/16	3/25/16 3:54	PJG
4,4'-DDE [1]	ND	0.0046	0.00034	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 3:54	PJG
4,4'-DDT [1]	ND	0.0046	0.00046	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 3:54	PJG
Dieldrin [1]	ND	0.0046	0.00034	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 3:54	PJG
Endosulfan I [1]	ND	0.0057	0.00046	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 3:54	PJG
Endosulfan II [1]	ND	0.0092	0.00034	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 3:54	PJG
Endosulfan sulfate [1]	ND	0.0092	0.0015	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 3:54	PJG
Endrin [1]	ND	0.0092	0.00034	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 3:54	PJG
Endrin aldehyde [1]	ND	0.0092	0.0014	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 3:54	PJG
Endrin ketone [1]	ND	0.0092	0.00046	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 3:54	PJG
Heptachlor [1]	ND	0.0057	0.00057	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 3:54	PJG
Heptachlor epoxide [1]	ND	0.0057	0.00046	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 3:54	PJG
Hexachlorobenzene [1]	ND	0.0069	0.00080	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 3:54	PJG
Methoxychlor [1]	ND	0.057	0.00069	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 3:54	PJG
Toxaphene [1]	ND	0.11	0.049	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 3:54	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	87.8	30-150		3/25/16 3:54
Decachlorobiphenyl [2]	104	30-150		3/25/16 3:54
Tetrachloro-m-xylene [1]	78.2	30-150		3/25/16 3:54
Tetrachloro-m-xylene [2]	76.4	30-150		3/25/16 3:54

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Project Location: 450Q
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Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-2 (10-12)
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Sample ID: 16C0970-06
Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	0.069	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 18:34	BJH
Aroclor-1221 [1]	ND	0.11	0.074	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 18:34	BJH
Aroclor-1232 [1]	ND	0.11	0.051	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 18:34	BJH
Aroclor-1242 [1]	ND	0.11	0.057	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 18:34	BJH
Aroclor-1248 [1]	ND	0.11	0.069	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 18:34	BJH
Aroclor-1254 [1]	ND	0.11	0.074	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 18:34	BJH
Aroclor-1260 [1]	ND	0.11	0.080	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 18:34	BJH
Aroclor-1262 [1]	ND	0.11	0.057	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 18:34	BJH
Aroclor-1268 [1]	ND	0.11	0.046	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 18:34	BJH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	86.9	30-150		3/24/16 18:34
Decachlorobiphenyl [2]	96.1	30-150		3/24/16 18:34
Tetrachloro-m-xylene [1]	90.8	30-150		3/24/16 18:34
Tetrachloro-m-xylene [2]	103	30-150		3/24/16 18:34

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Sample ID: 16C0970-06
Sample Matrix: Soil

Herbicides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-D [2]	ND	28	9.4	µg/kg dry	1		SW-846 8151A	3/22/16	3/27/16 0:26	JMB
2,4,5-TP (Silvex) [2]	ND	2.8	1.7	µg/kg dry	1		SW-846 8151A	3/22/16	3/27/16 0:26	JMB
2,4,5-T [2]	ND	2.8	1.3	µg/kg dry	1		SW-846 8151A	3/22/16	3/27/16 0:26	JMB
Dalapon [2]	ND	71	11	µg/kg dry	1	V-20	SW-846 8151A	3/22/16	3/27/16 0:26	JMB
Dicamba [2]	ND	2.8	1.4	µg/kg dry	1		SW-846 8151A	3/22/16	3/27/16 0:26	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2,4-Dichlorophenylacetic acid [1]	80.2	30-150		3/27/16 0:26
2,4-Dichlorophenylacetic acid [2]	76.3	30-150		3/27/16 0:26

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Sample ID: 16C0970-06
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Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	7900	2.8	2.4	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 13:59	AME
Antimony	ND	2.8	1.1	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 13:59	AME
Arsenic	1.6	2.8	0.52	mg/Kg dry	1	J	SW-846 6010C-D	3/22/16	3/25/16 13:59	AME
Barium	55	2.8	0.88	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 13:59	AME
Beryllium	0.76	0.28	0.23	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 13:59	AME
Cadmium	0.35	0.28	0.13	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 13:59	AME
Calcium	5300	8.5	5.0	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/28/16 19:37	AME
Chromium	20	0.57	0.27	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 13:59	AME
Cobalt	7.4	2.8	0.87	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 13:59	AME
Copper	19	0.57	0.20	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 13:59	AME
Iron	14000	2.8	1.5	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 13:59	AME
Lead	13	0.85	0.30	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/28/16 19:37	AME
Magnesium	5500	8.5	4.3	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 13:59	AME
Manganese	510	0.57	0.40	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 13:59	AME
Mercury	0.0092	0.029	0.0049	mg/Kg dry	1	J	SW-846 7471B	3/22/16	3/23/16 15:15	TGW
Nickel	15	0.57	0.16	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 13:59	AME
Potassium	1500	110	15	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 13:59	AME
Selenium	ND	5.7		mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 13:59	AME
Silver	ND	0.57	0.45	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 13:59	AME
Sodium	100	110	40	mg/Kg dry	1	J	SW-846 6010C-D	3/22/16	3/25/16 13:59	AME
Thallium	ND	2.8	1.8	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 13:59	AME
Vanadium	27	1.1	0.33	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 13:59	AME
Zinc	42	1.1	0.93	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 13:59	AME

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

Project Location: 450Q
Sample Description:
Work Order: 16C0970

Date Received: 3/21/2016

Field Sample #: TRC-SB-2 (10-12)
Sampled: 3/19/2016 13:58

Sample ID: 16C0970-06

Sample Matrix: Soil

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

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	87.4			% Wt	1		SM 2540G	3/22/16	3/23/16 8:20	MRL

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Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-3 (1-3)
Sampled: 3/20/2016 10:25
Sample ID: 16C0970-07
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.099	0.023	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 12:00	MFF
Benzene	ND	0.0020	0.00069	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 12:00	MFF
Bromochloromethane	ND	0.0020	0.0014	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 12:00	MFF
Bromodichloromethane	ND	0.0020	0.00059	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 12:00	MFF
Bromoform	ND	0.0020	0.0014	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 12:00	MFF
Bromomethane	ND	0.0099	0.0017	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 12:00	MFF
2-Butanone (MEK)	ND	0.039	0.017	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 12:00	MFF
Carbon Disulfide	ND	0.0059	0.0034	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 12:00	MFF
Carbon Tetrachloride	ND	0.0020	0.00079	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 12:00	MFF
Chlorobenzene	ND	0.0020	0.00069	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 12:00	MFF
Chlorodibromomethane	ND	0.00099	0.00069	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 12:00	MFF
Chloroethane	ND	0.020	0.0015	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 12:00	MFF
Chloroform	ND	0.0039	0.00069	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 12:00	MFF
Chloromethane	ND	0.0099	0.00089	mg/Kg dry	1	L-04, V-05	SW-846 8260C	3/23/16	3/23/16 12:00	MFF
Cyclohexane	ND	0.0020	0.00079	mg/Kg dry	1	V-05	SW-846 8260C	3/23/16	3/23/16 12:00	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	0.0011	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 12:00	MFF
1,2-Dibromoethane (EDB)	ND	0.00099	0.00099	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 12:00	MFF
1,2-Dichlorobenzene	ND	0.0020	0.00069	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 12:00	MFF
1,3-Dichlorobenzene	ND	0.0020	0.00069	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 12:00	MFF
1,4-Dichlorobenzene	ND	0.0020	0.00079	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 12:00	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.020	0.0013	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 12:00	MFF
1,1-Dichloroethane	ND	0.0020	0.00069	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 12:00	MFF
1,2-Dichloroethane	ND	0.0020	0.0013	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 12:00	MFF
1,1-Dichloroethylene	ND	0.0039	0.0011	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 12:00	MFF
cis-1,2-Dichloroethylene	ND	0.0020	0.00079	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 12:00	MFF
trans-1,2-Dichloroethylene	ND	0.0020	0.00089	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 12:00	MFF
1,2-Dichloropropane	ND	0.0020	0.0013	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 12:00	MFF
cis-1,3-Dichloropropene	ND	0.00099	0.00069	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 12:00	MFF
trans-1,3-Dichloropropene	ND	0.00099	0.00069	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 12:00	MFF
Ethylbenzene	ND	0.0020	0.00079	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 12:00	MFF
2-Hexanone (MBK)	ND	0.020	0.011	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 12:00	MFF
Isopropylbenzene (Cumene)	ND	0.0020	0.00069	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 12:00	MFF
Methyl Acetate	ND	0.0020	0.0016	mg/Kg dry	1	V-05	SW-846 8260C	3/23/16	3/23/16 12:00	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0039	0.00089	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 12:00	MFF
Methyl Cyclohexane	ND	0.0020	0.00099	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 12:00	MFF
Methylene Chloride	ND	0.020	0.0070	mg/Kg dry	1	V-05	SW-846 8260C	3/23/16	3/23/16 12:00	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.020	0.0075	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 12:00	MFF
Styrene	ND	0.0020	0.00059	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 12:00	MFF
1,1,2,2-Tetrachloroethane	ND	0.00099	0.00089	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 12:00	MFF
Tetrachloroethylene	ND	0.0020	0.0013	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 12:00	MFF
Toluene	ND	0.0020	0.00079	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 12:00	MFF
1,2,3-Trichlorobenzene	ND	0.0020	0.00059	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 12:00	MFF
1,2,4-Trichlorobenzene	ND	0.0020	0.00079	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 12:00	MFF
1,1,1-Trichloroethane	ND	0.0020	0.00099	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 12:00	MFF

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Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-3 (1-3)
Sampled: 3/20/2016 10:25
Sample ID: 16C0970-07
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,2-Trichloroethane	ND	0.0020	0.0012	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 12:00	MFF
Trichloroethylene	ND	0.0020	0.00099	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 12:00	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0099	0.0011	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 12:00	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0099	0.00089	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 12:00	MFF
Vinyl Chloride	ND	0.0099	0.0011	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 12:00	MFF
m+p Xylene	ND	0.0039	0.0017	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 12:00	MFF
o-Xylene	ND	0.0020	0.00069	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 12:00	MFF
Xylenes (total)	ND	0.0059		mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 12:00	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	121	70-130		3/23/16 12:00
Toluene-d8	93.1	70-130		3/23/16 12:00
4-Bromofluorobenzene	98.9	70-130		3/23/16 12:00

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Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-3 (1-3)
Sampled: 3/20/2016 10:25
Sample ID: 16C0970-07
Sample Matrix: Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg dry			1			SW-846 8260C	3/23/16	3/23/16 12:00	MFF

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Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-3 (1-3)
Sampled: 3/20/2016 10:25
Sample ID: 16C0970-07
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Atrazine	ND	0.70	0.59	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 10:57	CMR
Benzaldehyde	ND	0.35	0.34	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 10:57	CMR
Biphenyl	ND	0.70	0.44	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 10:57	CMR
Caprolactam	ND	0.35	0.27	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 10:57	CMR
Acenaphthene	0.13	0.18	0.053	mg/Kg dry	1	J	SW-846 8270D	3/23/16	3/28/16 10:57	BGL
Acenaphthylene	0.37	0.18	0.059	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 10:57	BGL
Acetophenone	ND	0.35	0.070	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 10:57	BGL
Anthracene	0.43	0.18	0.051	mg/Kg dry	1	R-06	SW-846 8270D	3/23/16	3/28/16 10:57	BGL
Benzo(a)anthracene	1.8	0.18	0.047	mg/Kg dry	1	R-06	SW-846 8270D	3/23/16	3/28/16 10:57	BGL
Benzo(a)pyrene	1.9	0.18	0.055	mg/Kg dry	1	R-06	SW-846 8270D	3/23/16	3/28/16 10:57	BGL
Benzo(b)fluoranthene	2.5	0.18	0.050	mg/Kg dry	1	R-06	SW-846 8270D	3/23/16	3/28/16 10:57	BGL
Benzo(g,h,i)perylene	1.7	0.18	0.078	mg/Kg dry	1	R-06, V-05	SW-846 8270D	3/23/16	3/28/16 10:57	BGL
Benzo(k)fluoranthene	0.89	0.18	0.055	mg/Kg dry	1	R-06	SW-846 8270D	3/23/16	3/28/16 10:57	BGL
Bis(2-chloroethoxy)methane	ND	0.35	0.068	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 10:57	BGL
Bis(2-chloroethyl)ether	ND	0.35	0.070	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 10:57	BGL
Bis(2-chloroisopropyl)ether	ND	0.35	0.076	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 10:57	BGL
Bis(2-Ethylhexyl)phthalate	0.18	0.35	0.14	mg/Kg dry	1	J	SW-846 8270D	3/23/16	3/28/16 10:57	BGL
4-Bromophenylphenylether	ND	0.35	0.059	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 10:57	BGL
Butylbenzylphthalate	ND	0.35	0.084	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 10:57	BGL
Carbazole	0.27	0.18	0.046	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 10:57	BGL
4-Chloroaniline	ND	0.69	0.081	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 10:57	BGL
4-Chloro-3-methylphenol	ND	0.69	0.076	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 10:57	BGL
2-Chloronaphthalene	ND	0.35	0.067	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 10:57	BGL
2-Chlorophenol	ND	0.35	0.064	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 10:57	BGL
4-Chlorophenylphenylether	ND	0.35	0.059	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 10:57	BGL
Chrysene	1.8	0.18	0.055	mg/Kg dry	1	R-06	SW-846 8270D	3/23/16	3/28/16 10:57	BGL
Dibenz(a,h)anthracene	0.29	0.18	0.11	mg/Kg dry	1	V-05	SW-846 8270D	3/23/16	3/28/16 10:57	BGL
Dibenzofuran	0.17	0.35	0.062	mg/Kg dry	1	J	SW-846 8270D	3/23/16	3/28/16 10:57	BGL
Di-n-butylphthalate	ND	0.35	0.077	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 10:57	BGL
3,3-Dichlorobenzidine	ND	0.18	0.054	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 10:57	BGL
2,4-Dichlorophenol	ND	0.35	0.060	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 10:57	BGL
Diethylphthalate	ND	0.35	0.064	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 10:57	BGL
2,4-Dimethylphenol	ND	0.35	0.066	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 10:57	BGL
Dimethylphthalate	ND	0.35	0.063	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 10:57	BGL
4,6-Dinitro-2-methylphenol	ND	0.35	0.34	mg/Kg dry	1	R-06	SW-846 8270D	3/23/16	3/28/16 10:57	BGL
2,4-Dinitrophenol	ND	0.69	0.20	mg/Kg dry	1	R-06	SW-846 8270D	3/23/16	3/28/16 10:57	BGL
2,4-Dinitrotoluene	ND	0.35	0.057	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 10:57	BGL
2,6-Dinitrotoluene	ND	0.35	0.063	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 10:57	BGL
Di-n-octylphthalate	ND	0.35	0.19	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 10:57	BGL
Fluoranthene	3.0	0.89	0.29	mg/Kg dry	5		SW-846 8270D	3/23/16	3/28/16 18:36	BGL
Fluorene	0.22	0.18	0.057	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 10:57	BGL
Hexachlorobenzene	ND	0.35	0.063	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 10:57	BGL
Hexachlorobutadiene	ND	0.35	0.063	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 10:57	BGL
Hexachlorocyclopentadiene	ND	0.35	0.075	mg/Kg dry	1	MS-09, R-06, V-05	SW-846 8270D	3/23/16	3/28/16 10:57	BGL

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Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-3 (1-3)
Sampled: 3/20/2016 10:25
Sample ID: 16C0970-07
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachloroethane	ND	0.35	0.071	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 10:57	BGL
Indeno(1,2,3-cd)pyrene	1.5	0.18	0.13	mg/Kg dry	1	R-06, V-05	SW-846 8270D	3/23/16	3/28/16 10:57	BGL
Isophorone	ND	0.35	0.069	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 10:57	BGL
2-Methylnaphthalene	0.12	0.18	0.062	mg/Kg dry	1	J	SW-846 8270D	3/23/16	3/28/16 10:57	BGL
2-Methylphenol	ND	0.35	0.089	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 10:57	BGL
3/4-Methylphenol	ND	0.35	0.11	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 10:57	BGL
Naphthalene	0.20	0.18	0.091	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 10:57	BGL
2-Nitroaniline	ND	0.35	0.059	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 10:57	BGL
3-Nitroaniline	ND	0.35	0.051	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 10:57	BGL
4-Nitroaniline	ND	0.35	0.059	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 10:57	BGL
4-Nitroaniline	ND	1.8	0.30	mg/Kg dry	5		SW-846 8270D	3/23/16	3/28/16 18:36	BGL
Nitrobenzene	ND	0.35	0.067	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 10:57	BGL
2-Nitrophenol	ND	0.35	0.094	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 10:57	BGL
4-Nitrophenol	ND	0.69	0.077	mg/Kg dry	1	V-20	SW-846 8270D	3/23/16	3/28/16 10:57	BGL
N-Nitrosodiphenylamine	ND	0.35	0.073	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 10:57	BGL
N-Nitrosodi-n-propylamine	ND	0.35	0.073	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 10:57	BGL
Pentachlorophenol	ND	0.35	0.086	mg/Kg dry	1	V-05	SW-846 8270D	3/23/16	3/28/16 10:57	BGL
Phenanthrene	3.1	0.18	0.092	mg/Kg dry	1	R-06	SW-846 8270D	3/23/16	3/28/16 10:57	BGL
Phenol	ND	0.35	0.060	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 10:57	BGL
Pyrene	3.8	0.89	0.29	mg/Kg dry	5	R-06	SW-846 8270D	3/23/16	3/28/16 18:36	BGL
1,2,4,5-Tetrachlorobenzene	ND	0.35	0.064	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 10:57	BGL
2,4,5-Trichlorophenol	ND	0.35	0.080	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 10:57	BGL
2,4,6-Trichlorophenol	ND	0.35	0.059	mg/Kg dry	1		SW-846 8270D	3/23/16	3/28/16 10:57	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	72.1	30-130		3/28/16 10:57
Phenol-d6	76.2	30-130		3/28/16 10:57
Nitrobenzene-d5	83.5	30-130		3/28/16 10:57
2-Fluorobiphenyl	77.9	30-130		3/28/16 10:57
2,4,6-Tribromophenol	68.1	30-130		3/28/16 10:57
p-Terphenyl-d14	90.8	30-130		3/28/16 10:57

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Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-3 (1-3)
Sampled: 3/20/2016 10:25
Sample ID: 16C0970-07
Sample Matrix: Soil

Tentatively Identified Compounds - SV Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
11H-Benzo[a]fluoren-11-one	0.18	mg/Kg dry	435680	6.988	1	000479-79-8	90	SW-846 8270D	3/23/16	3/28/16 10:57	BGL
7H-Benz[de]anthracen-7-one	0.21	mg/Kg dry	515708	6.79	1	000082-05-3	87	SW-846 8270D	3/23/16	3/28/16 10:57	BGL
9,10-Anthracenedione	0.42	mg/Kg dry	506452	5.765	1	000084-65-1	99	SW-846 8270D	3/23/16	3/28/16 10:57	BGL
Benz[a]anthracene, 7-methyl-	0.17	mg/Kg dry	402567	7.599	1	002541-69-7	89	SW-846 8270D	3/23/16	3/28/16 10:57	BGL
Benzenamine, 2-ethyl-N-(4,4...	0.16	mg/Kg dry	388241	6.885	1	1000272-26-2	86	SW-846 8270D	3/23/16	3/28/16 10:57	BGL
Benzo[e]pyrene	0.73	mg/Kg dry	533304	8.618	1	000192-97-2	95	SW-846 8270D	3/23/16	3/28/16 10:57	BGL
Dibenz(a,e)aceanthrylene	0.88	mg/Kg dry	636195	13.055	1	005385-75-1	93	SW-846 8270D	3/23/16	3/28/16 10:57	BGL
Phenanthrene, 1-methyl-	0.53	mg/Kg dry	638162	5.58	1	000832-69-9	97	SW-846 8270D	3/23/16	3/28/16 10:57	BGL
Phenanthrene, 2-methyl-	0.41	mg/Kg dry	498122	5.562	1	002531-84-2	97	SW-846 8270D	3/23/16	3/28/16 10:57	BGL
Pyrene, 1-methyl-	0.39	mg/Kg dry	945960	6.373	1	002381-21-7	96	SW-846 8270D	3/23/16	3/28/16 10:57	BGL
Pyrene, 2-methyl-	0.22	mg/Kg dry	530084	6.45	1	003442-78-2	92	SW-846 8270D	3/23/16	3/28/16 10:57	BGL

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Project Location: 450Q
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Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-3 (1-3)
Sampled: 3/20/2016 10:25
Sample ID: 16C0970-07
Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-Chlordane [1]	ND	0.0052	0.00029	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 4:18	PJG
gamma-Chlordane [1]	ND	0.0052	0.00029	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 4:18	PJG
Alachlor [1]	ND	0.021	0.0011	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 4:18	PJG
Aldrin [1]	ND	0.0052	0.00031	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 4:18	PJG
alpha-BHC [1]	ND	0.0052	0.00042	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 4:18	PJG
beta-BHC [1]	ND	0.0052	0.00052	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 4:18	PJG
delta-BHC [1]	ND	0.0052	0.00042	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 4:18	PJG
gamma-BHC (Lindane) [1]	ND	0.0021	0.00052	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 4:18	PJG
Chlordane [1]	ND	0.021	0.0060	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 4:18	PJG
4,4'-DDD [2]	0.00088	0.0042	0.00042	mg/Kg dry	1	P-08, V-06, J	SW-846 8081B	3/22/16	3/25/16 4:18	PJG
4,4'-DDE [1]	0.00034	0.0042	0.00031	mg/Kg dry	1	P-01, J, V-24	SW-846 8081B	3/22/16	3/25/16 4:18	PJG
4,4'-DDT [1]	0.00072	0.0042	0.00042	mg/Kg dry	1	P-01, J, V-24	SW-846 8081B	3/22/16	3/25/16 4:18	PJG
Dieldrin [1]	ND	0.0042	0.00031	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 4:18	PJG
Endosulfan I [1]	ND	0.0052	0.00042	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 4:18	PJG
Endosulfan II [2]	0.00037	0.0083	0.00031	mg/Kg dry	1	J	SW-846 8081B	3/22/16	3/25/16 4:18	PJG
Endosulfan sulfate [1]	ND	0.0083	0.0014	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 4:18	PJG
Endrin [1]	ND	0.0083	0.00031	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 4:18	PJG
Endrin aldehyde [1]	ND	0.0083	0.0013	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 4:18	PJG
Endrin ketone [1]	ND	0.0083	0.00042	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 4:18	PJG
Heptachlor [1]	ND	0.0052	0.00052	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 4:18	PJG
Heptachlor epoxide [1]	ND	0.0052	0.00042	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 4:18	PJG
Hexachlorobenzene [2]	ND	0.0063	0.00073	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 4:18	PJG
Methoxychlor [1]	ND	0.052	0.00063	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 4:18	PJG
Toxaphene [1]	ND	0.10	0.045	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 4:18	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	97.1	30-150		3/25/16 4:18
Decachlorobiphenyl [2]	118	30-150		3/25/16 4:18
Tetrachloro-m-xylene [1]	87.1	30-150		3/25/16 4:18
Tetrachloro-m-xylene [2]	83.5	30-150		3/25/16 4:18

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Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-3 (1-3)
Sampled: 3/20/2016 10:25
Sample ID: 16C0970-07
Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	0.063	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 18:47	BJH
Aroclor-1221 [1]	ND	0.10	0.068	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 18:47	BJH
Aroclor-1232 [1]	ND	0.10	0.047	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 18:47	BJH
Aroclor-1242 [1]	ND	0.10	0.052	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 18:47	BJH
Aroclor-1248 [1]	ND	0.10	0.063	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 18:47	BJH
Aroclor-1254 [1]	ND	0.10	0.068	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 18:47	BJH
Aroclor-1260 [1]	ND	0.10	0.073	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 18:47	BJH
Aroclor-1262 [1]	ND	0.10	0.052	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 18:47	BJH
Aroclor-1268 [1]	ND	0.10	0.042	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 18:47	BJH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	93.5	30-150		3/24/16 18:47
Decachlorobiphenyl [2]	96.7	30-150		3/24/16 18:47
Tetrachloro-m-xylene [1]	99.3	30-150		3/24/16 18:47
Tetrachloro-m-xylene [2]	111	30-150		3/24/16 18:47

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Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-3 (1-3)
Sampled: 3/20/2016 10:25
Sample ID: 16C0970-07
Sample Matrix: Soil

Herbicides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-D [2]	ND	26	8.6	µg/kg dry	1		SW-846 8151A	3/22/16	3/27/16 1:05	JMB
2,4,5-TP (Silvex) [2]	ND	2.6	1.6	µg/kg dry	1		SW-846 8151A	3/22/16	3/27/16 1:05	JMB
2,4,5-T [2]	ND	2.6	1.1	µg/kg dry	1		SW-846 8151A	3/22/16	3/27/16 1:05	JMB
Dalapon [2]	ND	65	10	µg/kg dry	1	V-20	SW-846 8151A	3/22/16	3/27/16 1:05	JMB
Dicamba [2]	ND	2.6	1.3	µg/kg dry	1		SW-846 8151A	3/22/16	3/27/16 1:05	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2,4-Dichlorophenylacetic acid [1]	92.9	30-150		3/27/16 1:05
2,4-Dichlorophenylacetic acid [2]	88.1	30-150		3/27/16 1:05

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Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-3 (1-3)
Sampled: 3/20/2016 10:25
Sample ID: 16C0970-07
Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	5400	2.5	2.1	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 14:05	AME
Antimony	ND	2.5	0.94	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 14:05	AME
Arsenic	0.94	2.5	0.46	mg/Kg dry	1	J	SW-846 6010C-D	3/22/16	3/25/16 14:05	AME
Barium	81	2.5	0.78	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 14:05	AME
Beryllium	0.53	0.25	0.20	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 14:05	AME
Cadmium	0.30	0.25	0.12	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 14:05	AME
Calcium	5600	7.5	4.5	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/28/16 19:41	AME
Chromium	8.0	0.50	0.24	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 14:05	AME
Cobalt	3.6	2.5	0.77	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 14:05	AME
Copper	23	0.50	0.18	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 14:05	AME
Iron	7000	2.5	1.4	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 14:05	AME
Lead	72	0.75	0.27	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/28/16 19:41	AME
Magnesium	2900	7.5	3.8	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 14:05	AME
Manganese	170	0.50	0.35	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 14:05	AME
Mercury	0.85	0.13	0.022	mg/Kg dry	5		SW-846 7471B	3/22/16	3/23/16 15:48	TGW
Nickel	6.7	0.50	0.15	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 14:05	AME
Potassium	660	100	14	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 14:05	AME
Selenium	ND	5.0		mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 14:05	AME
Silver	ND	0.50	0.40	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 14:05	AME
Sodium	240	100	35	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 14:05	AME
Thallium	ND	2.5	1.6	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 14:05	AME
Vanadium	12	1.0	0.29	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 14:05	AME
Zinc	64	1.0	0.82	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 14:05	AME

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Project Location: 450Q
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Date Received: 3/21/2016
Field Sample #: TRC-SB-3 (1-3)
Sampled: 3/20/2016 10:25
Sample ID: 16C0970-07
Sample Matrix: Soil

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

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	95.9			% Wt	1		SM 2540G	3/22/16	3/23/16 8:20	MRL

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Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-3 (10-12)
Sampled: 3/20/2016 10:30
Sample ID: 16C0970-08
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.094	0.022	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 12:27	MFF
Benzene	ND	0.0019	0.00066	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 12:27	MFF
Bromochloromethane	ND	0.0019	0.0013	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 12:27	MFF
Bromodichloromethane	ND	0.0019	0.00056	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 12:27	MFF
Bromoform	ND	0.0019	0.0013	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 12:27	MFF
Bromomethane	ND	0.0094	0.0016	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 12:27	MFF
2-Butanone (MEK)	ND	0.037	0.016	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 12:27	MFF
Carbon Disulfide	ND	0.0056	0.0033	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 12:27	MFF
Carbon Tetrachloride	ND	0.0019	0.00075	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 12:27	MFF
Chlorobenzene	ND	0.0019	0.00066	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 12:27	MFF
Chlorodibromomethane	ND	0.00094	0.00066	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 12:27	MFF
Chloroethane	ND	0.019	0.0014	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 12:27	MFF
Chloroform	ND	0.0037	0.00066	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 12:27	MFF
Chloromethane	ND	0.0094	0.00084	mg/Kg dry	1	L-04, V-05	SW-846 8260C	3/23/16	3/23/16 12:27	MFF
Cyclohexane	ND	0.0019	0.00075	mg/Kg dry	1	V-05	SW-846 8260C	3/23/16	3/23/16 12:27	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0019	0.0010	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 12:27	MFF
1,2-Dibromoethane (EDB)	ND	0.00094	0.00094	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 12:27	MFF
1,2-Dichlorobenzene	ND	0.0019	0.00066	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 12:27	MFF
1,3-Dichlorobenzene	ND	0.0019	0.00066	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 12:27	MFF
1,4-Dichlorobenzene	ND	0.0019	0.00075	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 12:27	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.019	0.0012	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 12:27	MFF
1,1-Dichloroethane	ND	0.0019	0.00066	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 12:27	MFF
1,2-Dichloroethane	ND	0.0019	0.0012	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 12:27	MFF
1,1-Dichloroethylene	ND	0.0037	0.0010	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 12:27	MFF
cis-1,2-Dichloroethylene	ND	0.0019	0.00075	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 12:27	MFF
trans-1,2-Dichloroethylene	ND	0.0019	0.00084	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 12:27	MFF
1,2-Dichloropropane	ND	0.0019	0.0012	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 12:27	MFF
cis-1,3-Dichloropropene	ND	0.00094	0.00066	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 12:27	MFF
trans-1,3-Dichloropropene	ND	0.00094	0.00066	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 12:27	MFF
Ethylbenzene	ND	0.0019	0.00075	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 12:27	MFF
2-Hexanone (MBK)	ND	0.019	0.010	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 12:27	MFF
Isopropylbenzene (Cumene)	ND	0.0019	0.00066	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 12:27	MFF
Methyl Acetate	ND	0.0019	0.0015	mg/Kg dry	1	V-05	SW-846 8260C	3/23/16	3/23/16 12:27	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0037	0.00084	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 12:27	MFF
Methyl Cyclohexane	ND	0.0019	0.00094	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 12:27	MFF
Methylene Chloride	ND	0.019	0.0066	mg/Kg dry	1	V-05	SW-846 8260C	3/23/16	3/23/16 12:27	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.019	0.0071	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 12:27	MFF
Styrene	ND	0.0019	0.00056	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 12:27	MFF
1,1,2,2-Tetrachloroethane	ND	0.00094	0.00084	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 12:27	MFF
Tetrachloroethylene	ND	0.0019	0.0012	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 12:27	MFF
Toluene	ND	0.0019	0.00075	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 12:27	MFF
1,2,3-Trichlorobenzene	ND	0.0019	0.00056	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 12:27	MFF
1,2,4-Trichlorobenzene	ND	0.0019	0.00075	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 12:27	MFF
1,1,1-Trichloroethane	ND	0.0019	0.00094	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 12:27	MFF

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

Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-3 (10-12)
Sampled: 3/20/2016 10:30
Sample ID: 16C0970-08
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,2-Trichloroethane	ND	0.0019	0.0011	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 12:27	MFF
Trichloroethylene	ND	0.0019	0.00094	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 12:27	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0094	0.0010	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 12:27	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0094	0.00084	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 12:27	MFF
Vinyl Chloride	ND	0.0094	0.0010	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 12:27	MFF
m+p Xylene	ND	0.0037	0.0016	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 12:27	MFF
o-Xylene	ND	0.0019	0.00066	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 12:27	MFF
Xylenes (total)	ND	0.0056		mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 12:27	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	122	70-130		3/23/16 12:27
Toluene-d8	91.9	70-130		3/23/16 12:27
4-Bromofluorobenzene	98.8	70-130		3/23/16 12:27

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

Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-3 (10-12)
Sampled: 3/20/2016 10:30
Sample ID: 16C0970-08
Sample Matrix: Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg dry			1			SW-846 8260C	3/23/16	3/23/16 12:27	MFF

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

Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-3 (10-12)
Sampled: 3/20/2016 10:30
Sample ID: 16C0970-08
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Atrazine	ND	0.72	0.60	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:05	CMR
Benzaldehyde	ND	0.36	0.35	mg/Kg dry	1	V-20	SW-846 8270D	3/23/16	3/24/16 16:05	CMR
Biphenyl	ND	0.72	0.45	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:05	CMR
Caprolactam	ND	0.36	0.27	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:05	CMR
Acenaphthene	ND	0.18	0.055	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:05	CMR
Acenaphthylene	ND	0.18	0.061	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:05	CMR
Acetophenone	ND	0.36	0.072	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:05	CMR
Anthracene	ND	0.18	0.052	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:05	CMR
Benzo(a)anthracene	ND	0.18	0.048	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:05	CMR
Benzo(a)pyrene	ND	0.18	0.057	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:05	CMR
Benzo(b)fluoranthene	ND	0.18	0.051	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:05	CMR
Benzo(g,h,i)perylene	ND	0.18	0.080	mg/Kg dry	1	V-05	SW-846 8270D	3/23/16	3/24/16 16:05	CMR
Benzo(k)fluoranthene	ND	0.18	0.057	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:05	CMR
Bis(2-chloroethoxy)methane	ND	0.36	0.070	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:05	CMR
Bis(2-chloroethyl)ether	ND	0.36	0.072	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:05	CMR
Bis(2-chloroisopropyl)ether	ND	0.36	0.078	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:05	CMR
Bis(2-Ethylhexyl)phthalate	0.19	0.36	0.14	mg/Kg dry	1	J	SW-846 8270D	3/23/16	3/24/16 16:05	CMR
4-Bromophenylphenylether	ND	0.36	0.061	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:05	CMR
Butylbenzylphthalate	ND	0.36	0.087	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:05	CMR
Carbazole	ND	0.18	0.047	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:05	CMR
4-Chloroaniline	ND	0.71	0.083	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:05	CMR
4-Chloro-3-methylphenol	ND	0.71	0.078	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:05	CMR
2-Chloronaphthalene	ND	0.36	0.068	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:05	CMR
2-Chlorophenol	ND	0.36	0.065	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:05	CMR
4-Chlorophenylphenylether	ND	0.36	0.061	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:05	CMR
Chrysene	ND	0.18	0.057	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:05	CMR
Dibenz(a,h)anthracene	ND	0.18	0.11	mg/Kg dry	1	V-05	SW-846 8270D	3/23/16	3/24/16 16:05	CMR
Dibenzofuran	ND	0.36	0.063	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:05	CMR
Di-n-butylphthalate	ND	0.36	0.079	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:05	CMR
3,3-Dichlorobenzidine	ND	0.18	0.056	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:05	CMR
2,4-Dichlorophenol	ND	0.36	0.062	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:05	CMR
Diethylphthalate	ND	0.36	0.065	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:05	CMR
2,4-Dimethylphenol	ND	0.36	0.067	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:05	CMR
Dimethylphthalate	ND	0.36	0.064	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:05	CMR
4,6-Dinitro-2-methylphenol	ND	0.36	0.35	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:05	CMR
2,4-Dinitrophenol	ND	0.71	0.21	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:05	CMR
2,4-Dinitrotoluene	ND	0.36	0.059	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:05	CMR
2,6-Dinitrotoluene	ND	0.36	0.064	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:05	CMR
Di-n-octylphthalate	ND	0.36	0.19	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:05	CMR
Fluoranthene	ND	0.18	0.060	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:05	CMR
Fluorene	ND	0.18	0.059	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:05	CMR
Hexachlorobenzene	ND	0.36	0.064	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:05	CMR
Hexachlorobutadiene	ND	0.36	0.064	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:05	CMR
Hexachlorocyclopentadiene	ND	0.36	0.077	mg/Kg dry	1	V-05	SW-846 8270D	3/23/16	3/24/16 16:05	CMR

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Project Location: 450Q
Sample Description:
Work Order: 16C0970

Date Received: 3/21/2016

Field Sample #: TRC-SB-3 (10-12)
Sampled: 3/20/2016 10:30

Sample ID: 16C0970-08

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachloroethane	ND	0.36	0.073	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:05	CMR
Indeno(1,2,3-cd)pyrene	ND	0.18	0.13	mg/Kg dry	1	V-05	SW-846 8270D	3/23/16	3/24/16 16:05	CMR
Isophorone	ND	0.36	0.071	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:05	CMR
2-Methylnaphthalene	ND	0.18	0.063	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:05	CMR
2-Methylphenol	ND	0.36	0.091	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:05	CMR
3/4-Methylphenol	ND	0.36	0.12	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:05	CMR
Naphthalene	ND	0.18	0.093	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:05	CMR
2-Nitroaniline	ND	0.36	0.061	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:05	CMR
3-Nitroaniline	ND	0.36	0.052	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:05	CMR
4-Nitroaniline	ND	0.36	0.061	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:05	CMR
Nitrobenzene	ND	0.36	0.068	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:05	CMR
2-Nitrophenol	ND	0.36	0.096	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:05	CMR
4-Nitrophenol	ND	0.71	0.079	mg/Kg dry	1	V-20	SW-846 8270D	3/23/16	3/24/16 16:05	CMR
N-Nitrosodiphenylamine	ND	0.36	0.075	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:05	CMR
N-Nitrosodi-n-propylamine	ND	0.36	0.075	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:05	CMR
Pentachlorophenol	ND	0.36	0.088	mg/Kg dry	1	V-05	SW-846 8270D	3/23/16	3/24/16 16:05	CMR
Phenanthrene	ND	0.18	0.094	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:05	CMR
Phenol	ND	0.36	0.062	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:05	CMR
Pyrene	ND	0.18	0.060	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:05	CMR
1,2,4,5-Tetrachlorobenzene	ND	0.36	0.065	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:05	CMR
2,4,5-Trichlorophenol	ND	0.36	0.082	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:05	CMR
2,4,6-Trichlorophenol	ND	0.36	0.061	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:05	CMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	71.8	30-130		3/24/16 16:05
Phenol-d6	75.3	30-130		3/24/16 16:05
Nitrobenzene-d5	78.4	30-130		3/24/16 16:05
2-Fluorobiphenyl	74.8	30-130		3/24/16 16:05
2,4,6-Tribromophenol	81.9	30-130		3/24/16 16:05
p-Terphenyl-d14	80.3	30-130		3/24/16 16:05

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

Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-3 (10-12)
Sampled: 3/20/2016 10:30
Sample ID: 16C0970-08
Sample Matrix: Soil

Tentatively Identified Compounds - SV Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg dry			1			SW-846 8270D	3/23/16	3/24/16 16:05	CMR

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

Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-3 (10-12)
Sampled: 3/20/2016 10:30
Sample ID: 16C0970-08
Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-Chlordane [1]	ND	0.0053	0.00030	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 4:41	PJG
gamma-Chlordane [1]	ND	0.0053	0.00030	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 4:41	PJG
Alachlor [1]	ND	0.021	0.0012	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 4:41	PJG
Aldrin [1]	ND	0.0053	0.00032	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 4:41	PJG
alpha-BHC [1]	ND	0.0053	0.00043	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 4:41	PJG
beta-BHC [1]	ND	0.0053	0.00053	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 4:41	PJG
delta-BHC [1]	ND	0.0053	0.00043	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 4:41	PJG
gamma-BHC (Lindane) [1]	ND	0.0021	0.00053	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 4:41	PJG
Chlordane [1]	ND	0.021	0.0062	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 4:41	PJG
4,4'-DDD [2]	ND	0.0043	0.00043	mg/Kg dry	1	V-20	SW-846 8081B	3/22/16	3/25/16 4:41	PJG
4,4'-DDE [1]	ND	0.0043	0.00032	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 4:41	PJG
4,4'-DDT [1]	ND	0.0043	0.00043	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 4:41	PJG
Dieldrin [1]	ND	0.0043	0.00032	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 4:41	PJG
Endosulfan I [1]	ND	0.0053	0.00043	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 4:41	PJG
Endosulfan II [1]	ND	0.0086	0.00032	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 4:41	PJG
Endosulfan sulfate [1]	ND	0.0086	0.0014	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 4:41	PJG
Endrin [1]	ND	0.0086	0.00032	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 4:41	PJG
Endrin aldehyde [1]	ND	0.0086	0.0013	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 4:41	PJG
Endrin ketone [1]	ND	0.0086	0.00043	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 4:41	PJG
Heptachlor [1]	ND	0.0053	0.00053	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 4:41	PJG
Heptachlor epoxide [1]	ND	0.0053	0.00043	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 4:41	PJG
Hexachlorobenzene [1]	0.0023	0.0064	0.00075	mg/Kg dry	1	P-01, J	SW-846 8081B	3/22/16	3/25/16 4:41	PJG
Methoxychlor [1]	ND	0.053	0.00064	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 4:41	PJG
Toxaphene [1]	ND	0.11	0.046	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 4:41	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	99.1	30-150		3/25/16 4:41
Decachlorobiphenyl [2]	118	30-150		3/25/16 4:41
Tetrachloro-m-xylene [1]	84.1	30-150		3/25/16 4:41
Tetrachloro-m-xylene [2]	81.0	30-150		3/25/16 4:41

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

Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-3 (10-12)
Sampled: 3/20/2016 10:30
Sample ID: 16C0970-08
Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	0.064	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 19:00	BJH
Aroclor-1221 [1]	ND	0.11	0.070	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 19:00	BJH
Aroclor-1232 [1]	ND	0.11	0.048	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 19:00	BJH
Aroclor-1242 [1]	ND	0.11	0.053	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 19:00	BJH
Aroclor-1248 [1]	ND	0.11	0.064	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 19:00	BJH
Aroclor-1254 [1]	ND	0.11	0.070	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 19:00	BJH
Aroclor-1260 [1]	ND	0.11	0.075	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 19:00	BJH
Aroclor-1262 [1]	ND	0.11	0.053	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 19:00	BJH
Aroclor-1268 [1]	ND	0.11	0.043	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 19:00	BJH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	91.1	30-150		3/24/16 19:00
Decachlorobiphenyl [2]	99.1	30-150		3/24/16 19:00
Tetrachloro-m-xylene [1]	92.1	30-150		3/24/16 19:00
Tetrachloro-m-xylene [2]	105	30-150		3/24/16 19:00

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Project Location: 450Q | Sample Description: | Work Order: 16C0970

Date Received: 3/21/2016

Field Sample #: TRC-SB-3 (10-12) | Sampled: 3/20/2016 10:30

Sample ID: 16C0970-08

Sample Matrix: Soil

Herbicides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-D [2]	ND	26	8.8	µg/kg dry	1		SW-846 8151A	3/22/16	3/27/16 1:44	JMB
2,4,5-TP (Silvex) [2]	ND	2.6	1.6	µg/kg dry	1		SW-846 8151A	3/22/16	3/27/16 1:44	JMB
2,4,5-T [2]	ND	2.6	1.2	µg/kg dry	1		SW-846 8151A	3/22/16	3/27/16 1:44	JMB
Dalapon [2]	ND	66	10	µg/kg dry	1	V-20	SW-846 8151A	3/22/16	3/27/16 1:44	JMB
Dicamba [2]	ND	2.6	1.3	µg/kg dry	1		SW-846 8151A	3/22/16	3/27/16 1:44	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2,4-Dichlorophenylacetic acid [1]	87.6	30-150		3/27/16 1:44
2,4-Dichlorophenylacetic acid [2]	83.4	30-150		3/27/16 1:44

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Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-3 (10-12)
Sampled: 3/20/2016 10:30
Sample ID: 16C0970-08
Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	4200	2.5	2.1	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 14:38	AME
Antimony	ND	2.5	0.95	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 14:38	AME
Arsenic	0.99	2.5	0.47	mg/Kg dry	1	J	SW-846 6010C-D	3/22/16	3/25/16 14:38	AME
Barium	29	2.5	0.79	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 14:38	AME
Beryllium	0.38	0.25	0.20	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 14:38	AME
Cadmium	0.21	0.25	0.12	mg/Kg dry	1	J	SW-846 6010C-D	3/22/16	3/25/16 14:38	AME
Calcium	1000	7.6	4.5	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/28/16 19:47	AME
Chromium	10	0.51	0.24	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 14:38	AME
Cobalt	3.7	2.5	0.78	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 14:38	AME
Copper	11	0.51	0.18	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 14:38	AME
Iron	6800	2.5	1.4	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 14:38	AME
Lead	3.9	0.76	0.27	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/28/16 19:47	AME
Magnesium	2000	7.6	3.8	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 14:38	AME
Manganese	220	0.51	0.36	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 14:38	AME
Mercury	0.0059	0.027	0.0045	mg/Kg dry	1	J	SW-846 7471B	3/22/16	3/23/16 15:22	TGW
Nickel	7.9	0.51	0.15	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 14:38	AME
Potassium	570	100	14	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 14:38	AME
Selenium	ND	5.1		mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 14:38	AME
Silver	ND	0.51	0.40	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 14:38	AME
Sodium	100	100	36	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 14:38	AME
Thallium	ND	2.5	1.7	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 14:38	AME
Vanadium	10	1.0	0.30	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 14:38	AME
Zinc	17	1.0	0.84	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 14:38	AME

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

Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-3 (10-12)
Sampled: 3/20/2016 10:30
Sample ID: 16C0970-08
Sample Matrix: Soil

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

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.5			% Wt	1		SM 2540G	3/22/16	3/23/16 8:20	MRL

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Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-4 (1-3)
Sampled: 3/19/2016 10:00
Sample ID: 16C0970-09
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.10	0.024	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 13:06	MFF
Benzene	ND	0.0020	0.00071	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 13:06	MFF
Bromochloromethane	ND	0.0020	0.0014	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 13:06	MFF
Bromodichloromethane	ND	0.0020	0.00061	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 13:06	MFF
Bromoform	ND	0.0020	0.0014	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 13:06	MFF
Bromomethane	ND	0.010	0.0017	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 13:06	MFF
2-Butanone (MEK)	ND	0.041	0.018	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 13:06	MFF
Carbon Disulfide	ND	0.0061	0.0036	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 13:06	MFF
Carbon Tetrachloride	ND	0.0020	0.00081	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 13:06	MFF
Chlorobenzene	ND	0.0020	0.00071	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 13:06	MFF
Chlorodibromomethane	ND	0.0010	0.00071	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 13:06	MFF
Chloroethane	ND	0.020	0.0015	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 13:06	MFF
Chloroform	ND	0.0041	0.00071	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 13:06	MFF
Chloromethane	ND	0.010	0.00092	mg/Kg dry	1	L-04, V-05	SW-846 8260C	3/23/16	3/23/16 13:06	MFF
Cyclohexane	ND	0.0020	0.00081	mg/Kg dry	1	V-05	SW-846 8260C	3/23/16	3/23/16 13:06	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	0.0011	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 13:06	MFF
1,2-Dibromoethane (EDB)	ND	0.0010	0.0010	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 13:06	MFF
1,2-Dichlorobenzene	ND	0.0020	0.00071	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 13:06	MFF
1,3-Dichlorobenzene	ND	0.0020	0.00071	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 13:06	MFF
1,4-Dichlorobenzene	ND	0.0020	0.00081	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 13:06	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.020	0.0013	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 13:06	MFF
1,1-Dichloroethane	ND	0.0020	0.00071	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 13:06	MFF
1,2-Dichloroethane	ND	0.0020	0.0013	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 13:06	MFF
1,1-Dichloroethylene	ND	0.0041	0.0011	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 13:06	MFF
cis-1,2-Dichloroethylene	ND	0.0020	0.00081	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 13:06	MFF
trans-1,2-Dichloroethylene	ND	0.0020	0.00092	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 13:06	MFF
1,2-Dichloropropane	ND	0.0020	0.0013	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 13:06	MFF
cis-1,3-Dichloropropene	ND	0.0010	0.00071	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 13:06	MFF
trans-1,3-Dichloropropene	ND	0.0010	0.00071	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 13:06	MFF
Ethylbenzene	ND	0.0020	0.00081	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 13:06	MFF
2-Hexanone (MBK)	ND	0.020	0.011	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 13:06	MFF
Isopropylbenzene (Cumene)	ND	0.0020	0.00071	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 13:06	MFF
Methyl Acetate	ND	0.0020	0.0016	mg/Kg dry	1	V-05	SW-846 8260C	3/23/16	3/23/16 13:06	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0041	0.00092	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 13:06	MFF
Methyl Cyclohexane	ND	0.0020	0.0010	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 13:06	MFF
Methylene Chloride	ND	0.020	0.0072	mg/Kg dry	1	V-05	SW-846 8260C	3/23/16	3/23/16 13:06	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.020	0.0077	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 13:06	MFF
Styrene	ND	0.0020	0.00061	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 13:06	MFF
1,1,2,2-Tetrachloroethane	ND	0.0010	0.00092	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 13:06	MFF
Tetrachloroethylene	ND	0.0020	0.0013	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 13:06	MFF
Toluene	ND	0.0020	0.00081	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 13:06	MFF
1,2,3-Trichlorobenzene	ND	0.0020	0.00061	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 13:06	MFF
1,2,4-Trichlorobenzene	ND	0.0020	0.00081	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 13:06	MFF
1,1,1-Trichloroethane	ND	0.0020	0.0010	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 13:06	MFF

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Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-4 (1-3)
Sampled: 3/19/2016 10:00
Sample ID: 16C0970-09
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,2-Trichloroethane	ND	0.0020	0.0012	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 13:06	MFF
Trichloroethylene	ND	0.0020	0.0010	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 13:06	MFF
Trichlorofluoromethane (Freon 11)	ND	0.010	0.0011	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 13:06	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	0.00092	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 13:06	MFF
Vinyl Chloride	ND	0.010	0.0011	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 13:06	MFF
m+p Xylene	ND	0.0041	0.0017	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 13:06	MFF
o-Xylene	ND	0.0020	0.00071	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 13:06	MFF
Xylenes (total)	ND	0.0061		mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 13:06	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	120	70-130		3/23/16 13:06
Toluene-d8	94.8	70-130		3/23/16 13:06
4-Bromofluorobenzene	97.1	70-130		3/23/16 13:06

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Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-4 (1-3)
Sampled: 3/19/2016 10:00
Sample ID: 16C0970-09
Sample Matrix: Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg dry			1			SW-846 8260C	3/23/16	3/23/16 13:06	MFF

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Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-4 (1-3)
Sampled: 3/19/2016 10:00
Sample ID: 16C0970-09
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Atrazine	ND	0.68	0.58	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:29	CMR
Benzaldehyde	ND	0.35	0.33	mg/Kg dry	1	V-20	SW-846 8270D	3/23/16	3/24/16 16:29	CMR
Biphenyl	ND	0.68	0.43	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:29	CMR
Caprolactam	ND	0.35	0.26	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:29	CMR
Acenaphthene	ND	0.17	0.052	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:29	CMR
Acenaphthylene	ND	0.17	0.058	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:29	CMR
Acetophenone	ND	0.35	0.068	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:29	CMR
Anthracene	ND	0.17	0.050	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:29	CMR
Benzo(a)anthracene	ND	0.17	0.046	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:29	CMR
Benzo(a)pyrene	ND	0.17	0.054	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:29	CMR
Benzo(b)fluoranthene	ND	0.17	0.049	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:29	CMR
Benzo(g,h,i)perylene	ND	0.17	0.077	mg/Kg dry	1	V-05	SW-846 8270D	3/23/16	3/24/16 16:29	CMR
Benzo(k)fluoranthene	ND	0.17	0.054	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:29	CMR
Bis(2-chloroethoxy)methane	ND	0.35	0.066	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:29	CMR
Bis(2-chloroethyl)ether	ND	0.35	0.068	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:29	CMR
Bis(2-chloroisopropyl)ether	ND	0.35	0.075	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:29	CMR
Bis(2-Ethylhexyl)phthalate	0.16	0.35	0.13	mg/Kg dry	1	J	SW-846 8270D	3/23/16	3/24/16 16:29	CMR
4-Bromophenylphenylether	ND	0.35	0.058	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:29	CMR
Butylbenzylphthalate	ND	0.35	0.083	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:29	CMR
Carbazole	ND	0.17	0.045	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:29	CMR
4-Chloroaniline	ND	0.67	0.080	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:29	CMR
4-Chloro-3-methylphenol	ND	0.67	0.075	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:29	CMR
2-Chloronaphthalene	ND	0.35	0.065	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:29	CMR
2-Chlorophenol	ND	0.35	0.062	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:29	CMR
4-Chlorophenylphenylether	ND	0.35	0.058	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:29	CMR
Chrysene	ND	0.17	0.054	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:29	CMR
Dibenz(a,h)anthracene	ND	0.17	0.11	mg/Kg dry	1	V-05	SW-846 8270D	3/23/16	3/24/16 16:29	CMR
Dibenzofuran	ND	0.35	0.060	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:29	CMR
Di-n-butylphthalate	ND	0.35	0.076	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:29	CMR
3,3-Dichlorobenzidine	ND	0.17	0.053	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:29	CMR
2,4-Dichlorophenol	ND	0.35	0.059	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:29	CMR
Diethylphthalate	ND	0.35	0.062	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:29	CMR
2,4-Dimethylphenol	ND	0.35	0.064	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:29	CMR
Dimethylphthalate	ND	0.35	0.061	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:29	CMR
4,6-Dinitro-2-methylphenol	ND	0.35	0.33	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:29	CMR
2,4-Dinitrophenol	ND	0.67	0.20	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:29	CMR
2,4-Dinitrotoluene	ND	0.35	0.056	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:29	CMR
2,6-Dinitrotoluene	ND	0.35	0.061	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:29	CMR
Di-n-octylphthalate	ND	0.35	0.18	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:29	CMR
Fluoranthene	ND	0.17	0.057	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:29	CMR
Fluorene	ND	0.17	0.056	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:29	CMR
Hexachlorobenzene	ND	0.35	0.061	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:29	CMR
Hexachlorobutadiene	ND	0.35	0.061	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:29	CMR
Hexachlorocyclopentadiene	ND	0.35	0.074	mg/Kg dry	1	V-05	SW-846 8270D	3/23/16	3/24/16 16:29	CMR

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Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-4 (1-3)
Sampled: 3/19/2016 10:00
Sample ID: 16C0970-09
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachloroethane	ND	0.35	0.069	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:29	CMR
Indeno(1,2,3-cd)pyrene	ND	0.17	0.12	mg/Kg dry	1	V-05	SW-846 8270D	3/23/16	3/24/16 16:29	CMR
Isophorone	ND	0.35	0.067	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:29	CMR
2-Methylnaphthalene	ND	0.17	0.060	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:29	CMR
2-Methylphenol	ND	0.35	0.087	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:29	CMR
3/4-Methylphenol	ND	0.35	0.11	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:29	CMR
Naphthalene	ND	0.17	0.089	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:29	CMR
2-Nitroaniline	ND	0.35	0.058	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:29	CMR
3-Nitroaniline	ND	0.35	0.050	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:29	CMR
4-Nitroaniline	ND	0.35	0.058	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:29	CMR
Nitrobenzene	ND	0.35	0.065	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:29	CMR
2-Nitrophenol	ND	0.35	0.092	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:29	CMR
4-Nitrophenol	ND	0.67	0.076	mg/Kg dry	1	V-20	SW-846 8270D	3/23/16	3/24/16 16:29	CMR
N-Nitrosodiphenylamine	ND	0.35	0.072	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:29	CMR
N-Nitrosodi-n-propylamine	ND	0.35	0.072	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:29	CMR
Pentachlorophenol	ND	0.35	0.084	mg/Kg dry	1	V-05	SW-846 8270D	3/23/16	3/24/16 16:29	CMR
Phenanthrene	ND	0.17	0.090	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:29	CMR
Phenol	ND	0.35	0.059	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:29	CMR
Pyrene	ND	0.17	0.057	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:29	CMR
1,2,4,5-Tetrachlorobenzene	ND	0.35	0.062	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:29	CMR
2,4,5-Trichlorophenol	ND	0.35	0.079	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:29	CMR
2,4,6-Trichlorophenol	ND	0.35	0.058	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:29	CMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	61.0	30-130		3/24/16 16:29
Phenol-d6	67.6	30-130		3/24/16 16:29
Nitrobenzene-d5	69.3	30-130		3/24/16 16:29
2-Fluorobiphenyl	68.3	30-130		3/24/16 16:29
2,4,6-Tribromophenol	63.2	30-130		3/24/16 16:29
p-Terphenyl-d14	74.2	30-130		3/24/16 16:29

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

Project Location: 450Q
Sample Description:
Work Order: 16C0970

Date Received: 3/21/2016

Field Sample #: TRC-SB-4 (1-3)
Sampled: 3/19/2016 10:00

Sample ID: 16C0970-09

Sample Matrix: Soil

Tentatively Identified Compounds - SV Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg dry			1			SW-846 8270D	3/23/16	3/24/16 16:29	CMR

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Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-4 (1-3)
Sampled: 3/19/2016 10:00
Sample ID: 16C0970-09
Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-Chlordane [1]	ND	0.0051	0.00029	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 5:03	PJG
gamma-Chlordane [1]	ND	0.0051	0.00029	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 5:03	PJG
Alachlor [1]	ND	0.020	0.0011	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 5:03	PJG
Aldrin [1]	ND	0.0051	0.00031	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 5:03	PJG
alpha-BHC [1]	ND	0.0051	0.00041	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 5:03	PJG
beta-BHC [1]	ND	0.0051	0.00051	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 5:03	PJG
delta-BHC [1]	ND	0.0051	0.00041	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 5:03	PJG
gamma-BHC (Lindane) [1]	ND	0.0020	0.00051	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 5:03	PJG
Chlordane [1]	ND	0.020	0.0059	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 5:03	PJG
4,4'-DDD [2]	ND	0.0041	0.00041	mg/Kg dry	1	V-20	SW-846 8081B	3/22/16	3/25/16 5:03	PJG
4,4'-DDE [1]	ND	0.0041	0.00031	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 5:03	PJG
4,4'-DDT [1]	ND	0.0041	0.00041	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 5:03	PJG
Dieldrin [1]	ND	0.0041	0.00031	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 5:03	PJG
Endosulfan I [1]	ND	0.0051	0.00041	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 5:03	PJG
Endosulfan II [1]	ND	0.0082	0.00031	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 5:03	PJG
Endosulfan sulfate [1]	ND	0.0082	0.0013	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 5:03	PJG
Endrin [1]	ND	0.0082	0.00031	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 5:03	PJG
Endrin aldehyde [1]	ND	0.0082	0.0012	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 5:03	PJG
Endrin ketone [1]	ND	0.0082	0.00041	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 5:03	PJG
Heptachlor [1]	ND	0.0051	0.00051	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 5:03	PJG
Heptachlor epoxide [1]	ND	0.0051	0.00041	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 5:03	PJG
Hexachlorobenzene [2]	ND	0.0061	0.00072	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 5:03	PJG
Methoxychlor [1]	ND	0.051	0.00061	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 5:03	PJG
Toxaphene [1]	ND	0.10	0.044	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 5:03	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	96.9	30-150		3/25/16 5:03
Decachlorobiphenyl [2]	114	30-150		3/25/16 5:03
Tetrachloro-m-xylene [1]	80.7	30-150		3/25/16 5:03
Tetrachloro-m-xylene [2]	77.7	30-150		3/25/16 5:03

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

Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-4 (1-3)
Sampled: 3/19/2016 10:00
Sample ID: 16C0970-09
Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	0.061	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 19:13	BJH
Aroclor-1221 [1]	ND	0.10	0.066	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 19:13	BJH
Aroclor-1232 [1]	ND	0.10	0.046	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 19:13	BJH
Aroclor-1242 [1]	ND	0.10	0.051	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 19:13	BJH
Aroclor-1248 [1]	ND	0.10	0.061	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 19:13	BJH
Aroclor-1254 [1]	ND	0.10	0.066	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 19:13	BJH
Aroclor-1260 [1]	ND	0.10	0.072	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 19:13	BJH
Aroclor-1262 [1]	ND	0.10	0.051	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 19:13	BJH
Aroclor-1268 [1]	ND	0.10	0.041	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 19:13	BJH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	88.7	30-150		3/24/16 19:13
Decachlorobiphenyl [2]	99.5	30-150		3/24/16 19:13
Tetrachloro-m-xylene [1]	91.3	30-150		3/24/16 19:13
Tetrachloro-m-xylene [2]	105	30-150		3/24/16 19:13

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Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-4 (1-3)
Sampled: 3/19/2016 10:00
Sample ID: 16C0970-09
Sample Matrix: Soil

Herbicides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-D [2]	ND	25	8.4	µg/kg dry	1		SW-846 8151A	3/22/16	3/27/16 5:38	JMB
2,4,5-TP (Silvex) [2]	ND	2.5	1.6	µg/kg dry	1		SW-846 8151A	3/22/16	3/27/16 5:38	JMB
2,4,5-T [2]	ND	2.5	1.1	µg/kg dry	1		SW-846 8151A	3/22/16	3/27/16 5:38	JMB
Dalapon [2]	ND	63	9.8	µg/kg dry	1	V-20	SW-846 8151A	3/22/16	3/27/16 5:38	JMB
Dicamba [2]	ND	2.5	1.3	µg/kg dry	1		SW-846 8151A	3/22/16	3/27/16 5:38	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2,4-Dichlorophenylacetic acid [1]	75.3	30-150		3/27/16 5:38
2,4-Dichlorophenylacetic acid [2]	86.4	30-150		3/27/16 5:38

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

Project Location: 450Q
Sample Description:
Work Order: 16C0970

Date Received: 3/21/2016

Field Sample #: TRC-SB-4 (1-3)
Sampled: 3/19/2016 10:00

Sample ID: 16C0970-09

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	4500	2.5	2.1	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 14:43	AME
Antimony	ND	2.5	0.92	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 14:43	AME
Arsenic	1.1	2.5	0.46	mg/Kg dry	1	J	SW-846 6010C-D	3/22/16	3/25/16 14:43	AME
Barium	18	2.5	0.77	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 14:43	AME
Beryllium	0.45	0.25	0.20	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 14:43	AME
Cadmium	0.19	0.25	0.11	mg/Kg dry	1	J	SW-846 6010C-D	3/22/16	3/25/16 14:43	AME
Calcium	1300	7.4	4.4	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/28/16 19:52	AME
Chromium	9.2	0.49	0.23	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 14:43	AME
Cobalt	3.6	2.5	0.76	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 14:43	AME
Copper	12	0.49	0.18	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 14:43	AME
Iron	7000	2.5	1.3	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 14:43	AME
Lead	6.5	0.74	0.26	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/28/16 19:52	AME
Magnesium	2100	7.4	3.7	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 14:43	AME
Manganese	190	0.49	0.35	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 14:43	AME
Mercury	0.066	0.025	0.0043	mg/Kg dry	1		SW-846 7471B	3/22/16	3/23/16 15:23	TGW
Nickel	6.8	0.49	0.14	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 14:43	AME
Potassium	500	99	14	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 14:43	AME
Selenium	ND	4.9		mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 14:43	AME
Silver	ND	0.49	0.39	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 14:43	AME
Sodium	94	99	35	mg/Kg dry	1	J	SW-846 6010C-D	3/22/16	3/25/16 14:43	AME
Thallium	ND	2.5	1.6	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 14:43	AME
Vanadium	14	0.99	0.29	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 14:43	AME
Zinc	19	0.99	0.81	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 14:43	AME

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Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-4 (1-3)
Sampled: 3/19/2016 10:00
Sample ID: 16C0970-09
Sample Matrix: Soil

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

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	97.9			% Wt	1		SM 2540G	3/22/16	3/23/16 8:20	MRL

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Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-4 (10-12)
Sampled: 3/19/2016 10:03
Sample ID: 16C0970-10
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.11	0.027	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 13:34	MFF
Benzene	ND	0.0023	0.00080	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 13:34	MFF
Bromochloromethane	ND	0.0023	0.0016	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 13:34	MFF
Bromodichloromethane	ND	0.0023	0.00069	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 13:34	MFF
Bromoform	ND	0.0023	0.0016	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 13:34	MFF
Bromomethane	ND	0.011	0.0019	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 13:34	MFF
2-Butanone (MEK)	ND	0.046	0.020	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 13:34	MFF
Carbon Disulfide	ND	0.0069	0.0040	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 13:34	MFF
Carbon Tetrachloride	ND	0.0023	0.00091	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 13:34	MFF
Chlorobenzene	ND	0.0023	0.00080	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 13:34	MFF
Chlorodibromomethane	ND	0.0011	0.00080	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 13:34	MFF
Chloroethane	ND	0.023	0.0017	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 13:34	MFF
Chloroform	ND	0.0046	0.00080	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 13:34	MFF
Chloromethane	ND	0.011	0.0010	mg/Kg dry	1	L-04, V-05	SW-846 8260C	3/23/16	3/23/16 13:34	MFF
Cyclohexane	ND	0.0023	0.00091	mg/Kg dry	1	V-05	SW-846 8260C	3/23/16	3/23/16 13:34	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0023	0.0013	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 13:34	MFF
1,2-Dibromoethane (EDB)	ND	0.0011	0.0011	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 13:34	MFF
1,2-Dichlorobenzene	ND	0.0023	0.00080	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 13:34	MFF
1,3-Dichlorobenzene	ND	0.0023	0.00080	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 13:34	MFF
1,4-Dichlorobenzene	ND	0.0023	0.00091	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 13:34	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.023	0.0015	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 13:34	MFF
1,1-Dichloroethane	ND	0.0023	0.00080	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 13:34	MFF
1,2-Dichloroethane	ND	0.0023	0.0015	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 13:34	MFF
1,1-Dichloroethylene	ND	0.0046	0.0013	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 13:34	MFF
cis-1,2-Dichloroethylene	ND	0.0023	0.00091	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 13:34	MFF
trans-1,2-Dichloroethylene	ND	0.0023	0.0010	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 13:34	MFF
1,2-Dichloropropane	ND	0.0023	0.0015	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 13:34	MFF
cis-1,3-Dichloropropene	ND	0.0011	0.00080	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 13:34	MFF
trans-1,3-Dichloropropene	ND	0.0011	0.00080	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 13:34	MFF
Ethylbenzene	ND	0.0023	0.00091	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 13:34	MFF
2-Hexanone (MBK)	ND	0.023	0.012	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 13:34	MFF
Isopropylbenzene (Cumene)	ND	0.0023	0.00080	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 13:34	MFF
Methyl Acetate	ND	0.0023	0.0018	mg/Kg dry	1	V-05	SW-846 8260C	3/23/16	3/23/16 13:34	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0046	0.0010	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 13:34	MFF
Methyl Cyclohexane	ND	0.0023	0.0011	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 13:34	MFF
Methylene Chloride	ND	0.023	0.0081	mg/Kg dry	1	V-05	SW-846 8260C	3/23/16	3/23/16 13:34	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.023	0.0087	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 13:34	MFF
Styrene	ND	0.0023	0.00069	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 13:34	MFF
1,1,2,2-Tetrachloroethane	ND	0.0011	0.0010	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 13:34	MFF
Tetrachloroethylene	ND	0.0023	0.0015	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 13:34	MFF
Toluene	ND	0.0023	0.00091	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 13:34	MFF
1,2,3-Trichlorobenzene	ND	0.0023	0.00069	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 13:34	MFF
1,2,4-Trichlorobenzene	ND	0.0023	0.00091	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 13:34	MFF
1,1,1-Trichloroethane	ND	0.0023	0.0011	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 13:34	MFF

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-4 (10-12)
Sampled: 3/19/2016 10:03
Sample ID: 16C0970-10
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,2-Trichloroethane	ND	0.0023	0.0014	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 13:34	MFF
Trichloroethylene	ND	0.0023	0.0011	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 13:34	MFF
Trichlorofluoromethane (Freon 11)	ND	0.011	0.0013	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 13:34	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.011	0.0010	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 13:34	MFF
Vinyl Chloride	ND	0.011	0.0013	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 13:34	MFF
m+p Xylene	ND	0.0046	0.0019	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 13:34	MFF
o-Xylene	ND	0.0023	0.00080	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 13:34	MFF
Xylenes (total)	ND	0.0069		mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 13:34	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	119	70-130		3/23/16 13:34
Toluene-d8	92.2	70-130		3/23/16 13:34
4-Bromofluorobenzene	96.1	70-130		3/23/16 13:34

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

Project Location: 450Q
Sample Description:
Work Order: 16C0970

Date Received: 3/21/2016

Field Sample #: TRC-SB-4 (10-12)
Sampled: 3/19/2016 10:03

Sample ID: 16C0970-10

Sample Matrix: Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg dry			1			SW-846 8260C	3/23/16	3/23/16 13:34	MFF

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

Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-4 (10-12)
Sampled: 3/19/2016 10:03
Sample ID: 16C0970-10
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Atrazine	ND	0.73	0.62	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:52	CMR
Benzaldehyde	ND	0.37	0.35	mg/Kg dry	1	V-20	SW-846 8270D	3/23/16	3/24/16 16:52	CMR
Biphenyl	ND	0.73	0.47	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:52	CMR
Caprolactam	ND	0.37	0.28	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:52	CMR
Acenaphthene	ND	0.19	0.056	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:52	CMR
Acenaphthylene	ND	0.19	0.062	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:52	CMR
Acetophenone	ND	0.37	0.073	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:52	CMR
Anthracene	ND	0.19	0.054	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:52	CMR
Benzo(a)anthracene	ND	0.19	0.049	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:52	CMR
Benzo(a)pyrene	ND	0.19	0.058	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:52	CMR
Benzo(b)fluoranthene	ND	0.19	0.053	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:52	CMR
Benzo(g,h,i)perylene	ND	0.19	0.082	mg/Kg dry	1	V-05	SW-846 8270D	3/23/16	3/24/16 16:52	CMR
Benzo(k)fluoranthene	ND	0.19	0.058	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:52	CMR
Bis(2-chloroethoxy)methane	ND	0.37	0.071	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:52	CMR
Bis(2-chloroethyl)ether	ND	0.37	0.073	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:52	CMR
Bis(2-chloroisopropyl)ether	ND	0.37	0.080	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:52	CMR
Bis(2-Ethylhexyl)phthalate	0.22	0.37	0.14	mg/Kg dry	1	J	SW-846 8270D	3/23/16	3/24/16 16:52	CMR
4-Bromophenylphenylether	ND	0.37	0.062	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:52	CMR
Butylbenzylphthalate	ND	0.37	0.089	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:52	CMR
Carbazole	ND	0.19	0.048	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:52	CMR
4-Chloroaniline	ND	0.72	0.086	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:52	CMR
4-Chloro-3-methylphenol	ND	0.72	0.080	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:52	CMR
2-Chloronaphthalene	ND	0.37	0.070	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:52	CMR
2-Chlorophenol	ND	0.37	0.067	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:52	CMR
4-Chlorophenylphenylether	ND	0.37	0.062	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:52	CMR
Chrysene	ND	0.19	0.058	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:52	CMR
Dibenz(a,h)anthracene	ND	0.19	0.11	mg/Kg dry	1	V-05	SW-846 8270D	3/23/16	3/24/16 16:52	CMR
Dibenzofuran	ND	0.37	0.065	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:52	CMR
Di-n-butylphthalate	ND	0.37	0.081	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:52	CMR
3,3-Dichlorobenzidine	ND	0.19	0.057	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:52	CMR
2,4-Dichlorophenol	ND	0.37	0.064	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:52	CMR
Diethylphthalate	ND	0.37	0.067	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:52	CMR
2,4-Dimethylphenol	ND	0.37	0.069	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:52	CMR
Dimethylphthalate	ND	0.37	0.066	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:52	CMR
4,6-Dinitro-2-methylphenol	ND	0.37	0.35	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:52	CMR
2,4-Dinitrophenol	ND	0.72	0.21	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:52	CMR
2,4-Dinitrotoluene	ND	0.37	0.060	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:52	CMR
2,6-Dinitrotoluene	ND	0.37	0.066	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:52	CMR
Di-n-octylphthalate	ND	0.37	0.20	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:52	CMR
Fluoranthene	ND	0.19	0.061	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:52	CMR
Fluorene	ND	0.19	0.060	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:52	CMR
Hexachlorobenzene	ND	0.37	0.066	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:52	CMR
Hexachlorobutadiene	ND	0.37	0.066	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:52	CMR
Hexachlorocyclopentadiene	ND	0.37	0.079	mg/Kg dry	1	V-05	SW-846 8270D	3/23/16	3/24/16 16:52	CMR

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

Project Location: 450Q
Sample Description:
Work Order: 16C0970

Date Received: 3/21/2016

Field Sample #: TRC-SB-4 (10-12)
Sampled: 3/19/2016 10:03

Sample ID: 16C0970-10

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachloroethane	ND	0.37	0.075	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:52	CMR
Indeno(1,2,3-cd)pyrene	ND	0.19	0.13	mg/Kg dry	1	V-05	SW-846 8270D	3/23/16	3/24/16 16:52	CMR
Isophorone	ND	0.37	0.072	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:52	CMR
2-Methylnaphthalene	ND	0.19	0.065	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:52	CMR
2-Methylphenol	ND	0.37	0.093	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:52	CMR
3/4-Methylphenol	ND	0.37	0.12	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:52	CMR
Naphthalene	ND	0.19	0.095	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:52	CMR
2-Nitroaniline	ND	0.37	0.062	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:52	CMR
3-Nitroaniline	ND	0.37	0.054	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:52	CMR
4-Nitroaniline	ND	0.37	0.062	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:52	CMR
Nitrobenzene	ND	0.37	0.070	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:52	CMR
2-Nitrophenol	ND	0.37	0.099	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:52	CMR
4-Nitrophenol	ND	0.72	0.081	mg/Kg dry	1	V-20	SW-846 8270D	3/23/16	3/24/16 16:52	CMR
N-Nitrosodiphenylamine	ND	0.37	0.077	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:52	CMR
N-Nitrosodi-n-propylamine	ND	0.37	0.077	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:52	CMR
Pentachlorophenol	ND	0.37	0.090	mg/Kg dry	1	V-05	SW-846 8270D	3/23/16	3/24/16 16:52	CMR
Phenanthrene	ND	0.19	0.096	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:52	CMR
Phenol	ND	0.37	0.064	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:52	CMR
Pyrene	ND	0.19	0.061	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:52	CMR
1,2,4,5-Tetrachlorobenzene	ND	0.37	0.067	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:52	CMR
2,4,5-Trichlorophenol	ND	0.37	0.084	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:52	CMR
2,4,6-Trichlorophenol	ND	0.37	0.062	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 16:52	CMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	52.4	30-130		3/24/16 16:52
Phenol-d6	56.2	30-130		3/24/16 16:52
Nitrobenzene-d5	58.4	30-130		3/24/16 16:52
2-Fluorobiphenyl	57.0	30-130		3/24/16 16:52
2,4,6-Tribromophenol	61.3	30-130		3/24/16 16:52
p-Terphenyl-d14	59.6	30-130		3/24/16 16:52

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

Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-4 (10-12)
Sampled: 3/19/2016 10:03
Sample ID: 16C0970-10
Sample Matrix: Soil

Tentatively Identified Compounds - SV Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg dry			1			SW-846 8270D	3/23/16	3/24/16 16:52	CMR

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-4 (10-12)
Sampled: 3/19/2016 10:03
Sample ID: 16C0970-10
Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-Chlordane [1]	ND	0.0055	0.00031	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 5:26	PJG
gamma-Chlordane [1]	ND	0.0055	0.00031	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 5:26	PJG
Alachlor [1]	ND	0.022	0.0012	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 5:26	PJG
Aldrin [1]	ND	0.0055	0.00033	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 5:26	PJG
alpha-BHC [1]	ND	0.0055	0.00044	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 5:26	PJG
beta-BHC [1]	ND	0.0055	0.00055	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 5:26	PJG
delta-BHC [1]	ND	0.0055	0.00044	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 5:26	PJG
gamma-BHC (Lindane) [1]	ND	0.0022	0.00055	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 5:26	PJG
Chlordane [1]	ND	0.022	0.0064	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 5:26	PJG
4,4'-DDD [2]	ND	0.0044	0.00044	mg/Kg dry	1	V-20	SW-846 8081B	3/22/16	3/25/16 5:26	PJG
4,4'-DDE [1]	ND	0.0044	0.00033	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 5:26	PJG
4,4'-DDT [1]	ND	0.0044	0.00044	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 5:26	PJG
Dieldrin [1]	ND	0.0044	0.00033	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 5:26	PJG
Endosulfan I [1]	ND	0.0055	0.00044	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 5:26	PJG
Endosulfan II [1]	ND	0.0088	0.00033	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 5:26	PJG
Endosulfan sulfate [1]	ND	0.0088	0.0014	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 5:26	PJG
Endrin [1]	ND	0.0088	0.00033	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 5:26	PJG
Endrin aldehyde [1]	ND	0.0088	0.0013	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 5:26	PJG
Endrin ketone [1]	ND	0.0088	0.00044	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 5:26	PJG
Heptachlor [1]	ND	0.0055	0.00055	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 5:26	PJG
Heptachlor epoxide [1]	ND	0.0055	0.00044	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 5:26	PJG
Hexachlorobenzene [2]	ND	0.0066	0.00077	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 5:26	PJG
Methoxychlor [1]	ND	0.055	0.00066	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 5:26	PJG
Toxaphene [1]	ND	0.11	0.047	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 5:26	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	73.7	30-150		3/25/16 5:26
Decachlorobiphenyl [2]	88.0	30-150		3/25/16 5:26
Tetrachloro-m-xylene [1]	61.0	30-150		3/25/16 5:26
Tetrachloro-m-xylene [2]	61.5	30-150		3/25/16 5:26

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

Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-4 (10-12)
Sampled: 3/19/2016 10:03
Sample ID: 16C0970-10
Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	0.066	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 19:26	BJH
Aroclor-1221 [1]	ND	0.11	0.071	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 19:26	BJH
Aroclor-1232 [1]	ND	0.11	0.049	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 19:26	BJH
Aroclor-1242 [1]	ND	0.11	0.055	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 19:26	BJH
Aroclor-1248 [1]	ND	0.11	0.066	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 19:26	BJH
Aroclor-1254 [1]	ND	0.11	0.071	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 19:26	BJH
Aroclor-1260 [1]	ND	0.11	0.077	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 19:26	BJH
Aroclor-1262 [1]	ND	0.11	0.055	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 19:26	BJH
Aroclor-1268 [1]	ND	0.11	0.044	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 19:26	BJH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	73.7	30-150		3/24/16 19:26
Decachlorobiphenyl [2]	84.1	30-150		3/24/16 19:26
Tetrachloro-m-xylene [1]	73.0	30-150		3/24/16 19:26
Tetrachloro-m-xylene [2]	84.9	30-150		3/24/16 19:26

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Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-4 (10-12)
Sampled: 3/19/2016 10:03
Sample ID: 16C0970-10
Sample Matrix: Soil

Herbicides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-D [2]	ND	27	9.1	µg/kg dry	1		SW-846 8151A	3/22/16	3/27/16 6:17	JMB
2,4,5-TP (Silvex) [2]	ND	2.7	1.7	µg/kg dry	1		SW-846 8151A	3/22/16	3/27/16 6:17	JMB
2,4,5-T [2]	ND	2.7	1.2	µg/kg dry	1		SW-846 8151A	3/22/16	3/27/16 6:17	JMB
Dalapon [2]	ND	68	11	µg/kg dry	1	V-20	SW-846 8151A	3/22/16	3/27/16 6:17	JMB
Dicamba [2]	ND	2.7	1.4	µg/kg dry	1		SW-846 8151A	3/22/16	3/27/16 6:17	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2,4-Dichlorophenylacetic acid [1]	87.2	30-150		3/27/16 6:17
2,4-Dichlorophenylacetic acid [2]	91.1	30-150		3/27/16 6:17

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Project Location: 450Q
Sample Description:
Work Order: 16C0970

Date Received: 3/21/2016

Field Sample #: TRC-SB-4 (10-12)
Sampled: 3/19/2016 10:03

Sample ID: 16C0970-10

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	9200	2.6	2.2	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 14:48	AME
Antimony	ND	2.6	0.98	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 14:48	AME
Arsenic	1.6	2.6	0.49	mg/Kg dry	1	J	SW-846 6010C-D	3/22/16	3/25/16 14:48	AME
Barium	73	2.6	0.82	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 14:48	AME
Beryllium	0.75	0.26	0.21	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 14:48	AME
Cadmium	0.34	0.26	0.12	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 14:48	AME
Calcium	2200	7.9	4.7	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/28/16 19:57	AME
Chromium	17	0.53	0.25	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 14:48	AME
Cobalt	7.6	2.6	0.81	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 14:48	AME
Copper	18	0.53	0.19	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 14:48	AME
Iron	14000	2.6	1.4	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 14:48	AME
Lead	5.4	0.79	0.28	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/28/16 19:57	AME
Magnesium	4500	7.9	4.0	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 14:48	AME
Manganese	310	0.53	0.37	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 14:48	AME
Mercury	0.0082	0.028	0.0046	mg/Kg dry	1	J	SW-846 7471B	3/22/16	3/23/16 15:24	TGW
Nickel	14	0.53	0.15	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 14:48	AME
Potassium	1600	110	14	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 14:48	AME
Selenium	ND	5.3		mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 14:48	AME
Silver	ND	0.53	0.42	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 14:48	AME
Sodium	100	110	37	mg/Kg dry	1	J	SW-846 6010C-D	3/22/16	3/25/16 14:48	AME
Thallium	ND	2.6	1.7	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 14:48	AME
Vanadium	23	1.1	0.31	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 14:48	AME
Zinc	43	1.1	0.87	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 14:48	AME

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Project Location: 450Q
Sample Description:
Work Order: 16C0970

Date Received: 3/21/2016

Field Sample #: TRC-SB-4 (10-12)
Sampled: 3/19/2016 10:03

Sample ID: 16C0970-10

Sample Matrix: Soil

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

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	91.2			% Wt	1		SM 2540G	3/22/16	3/23/16 8:20	MRL

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Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-5 (1-3)
Sampled: 3/20/2016 12:30
Sample ID: 16C0970-11
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.096	0.022	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 14:28	MFF
Benzene	ND	0.0019	0.00067	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 14:28	MFF
Bromochloromethane	ND	0.0019	0.0013	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 14:28	MFF
Bromodichloromethane	ND	0.0019	0.00058	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 14:28	MFF
Bromoform	ND	0.0019	0.0013	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 14:28	MFF
Bromomethane	ND	0.0096	0.0016	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 14:28	MFF
2-Butanone (MEK)	ND	0.038	0.017	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 14:28	MFF
Carbon Disulfide	ND	0.0058	0.0034	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 14:28	MFF
Carbon Tetrachloride	ND	0.0019	0.00077	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 14:28	MFF
Chlorobenzene	ND	0.0019	0.00067	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 14:28	MFF
Chlorodibromomethane	ND	0.00096	0.00067	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 14:28	MFF
Chloroethane	ND	0.019	0.0014	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 14:28	MFF
Chloroform	ND	0.0038	0.00067	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 14:28	MFF
Chloromethane	ND	0.0096	0.00086	mg/Kg dry	1	L-04, V-05	SW-846 8260C	3/23/16	3/23/16 14:28	MFF
Cyclohexane	ND	0.0019	0.00077	mg/Kg dry	1	V-05	SW-846 8260C	3/23/16	3/23/16 14:28	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0019	0.0011	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 14:28	MFF
1,2-Dibromoethane (EDB)	ND	0.00096	0.00096	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 14:28	MFF
1,2-Dichlorobenzene	ND	0.0019	0.00067	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 14:28	MFF
1,3-Dichlorobenzene	ND	0.0019	0.00067	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 14:28	MFF
1,4-Dichlorobenzene	ND	0.0019	0.00077	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 14:28	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.019	0.0012	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 14:28	MFF
1,1-Dichloroethane	ND	0.0019	0.00067	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 14:28	MFF
1,2-Dichloroethane	ND	0.0019	0.0012	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 14:28	MFF
1,1-Dichloroethylene	ND	0.0038	0.0011	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 14:28	MFF
cis-1,2-Dichloroethylene	ND	0.0019	0.00077	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 14:28	MFF
trans-1,2-Dichloroethylene	ND	0.0019	0.00086	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 14:28	MFF
1,2-Dichloropropane	ND	0.0019	0.0012	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 14:28	MFF
cis-1,3-Dichloropropene	ND	0.00096	0.00067	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 14:28	MFF
trans-1,3-Dichloropropene	ND	0.00096	0.00067	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 14:28	MFF
Ethylbenzene	ND	0.0019	0.00077	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 14:28	MFF
2-Hexanone (MBK)	ND	0.019	0.010	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 14:28	MFF
Isopropylbenzene (Cumene)	ND	0.0019	0.00067	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 14:28	MFF
Methyl Acetate	ND	0.0019	0.0015	mg/Kg dry	1	V-05	SW-846 8260C	3/23/16	3/23/16 14:28	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0038	0.00086	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 14:28	MFF
Methyl Cyclohexane	ND	0.0019	0.00096	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 14:28	MFF
Methylene Chloride	ND	0.019	0.0068	mg/Kg dry	1	V-05	SW-846 8260C	3/23/16	3/23/16 14:28	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.019	0.0073	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 14:28	MFF
Styrene	ND	0.0019	0.00058	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 14:28	MFF
1,1,2,2-Tetrachloroethane	ND	0.00096	0.00086	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 14:28	MFF
Tetrachloroethylene	ND	0.0019	0.0012	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 14:28	MFF
Toluene	ND	0.0019	0.00077	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 14:28	MFF
1,2,3-Trichlorobenzene	ND	0.0019	0.00058	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 14:28	MFF
1,2,4-Trichlorobenzene	ND	0.0019	0.00077	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 14:28	MFF
1,1,1-Trichloroethane	ND	0.0019	0.00096	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 14:28	MFF

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

Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-5 (1-3)
Sampled: 3/20/2016 12:30
Sample ID: 16C0970-11
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,2-Trichloroethane	ND	0.0019	0.0012	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 14:28	MFF
Trichloroethylene	ND	0.0019	0.00096	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 14:28	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0096	0.0011	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 14:28	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0096	0.00086	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 14:28	MFF
Vinyl Chloride	ND	0.0096	0.0011	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 14:28	MFF
m+p Xylene	ND	0.0038	0.0016	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 14:28	MFF
o-Xylene	ND	0.0019	0.00067	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 14:28	MFF
Xylenes (total)	ND	0.0058		mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 14:28	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	100	70-130		3/23/16 14:28
Toluene-d8	91.2	70-130		3/23/16 14:28
4-Bromofluorobenzene	97.6	70-130		3/23/16 14:28

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

Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-5 (1-3)
Sampled: 3/20/2016 12:30
Sample ID: 16C0970-11
Sample Matrix: Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg dry			1			SW-846 8260C	3/23/16	3/23/16 14:28	MFF

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

Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-5 (1-3)
Sampled: 3/20/2016 12:30
Sample ID: 16C0970-11
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Atrazine	ND	0.70	0.59	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 17:16	CMR
Benzaldehyde	ND	0.35	0.34	mg/Kg dry	1	V-20	SW-846 8270D	3/23/16	3/24/16 17:16	CMR
Biphenyl	ND	0.70	0.44	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 17:16	CMR
Caprolactam	ND	0.35	0.27	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 17:16	CMR
Acenaphthene	ND	0.18	0.053	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 17:16	CMR
Acenaphthylene	ND	0.18	0.059	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 17:16	CMR
Acetophenone	ND	0.35	0.070	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 17:16	CMR
Anthracene	ND	0.18	0.051	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 17:16	CMR
Benzo(a)anthracene	ND	0.18	0.047	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 17:16	CMR
Benzo(a)pyrene	ND	0.18	0.055	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 17:16	CMR
Benzo(b)fluoranthene	ND	0.18	0.050	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 17:16	CMR
Benzo(g,h,i)perylene	ND	0.18	0.078	mg/Kg dry	1	V-05	SW-846 8270D	3/23/16	3/24/16 17:16	CMR
Benzo(k)fluoranthene	ND	0.18	0.055	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 17:16	CMR
Bis(2-chloroethoxy)methane	ND	0.35	0.067	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 17:16	CMR
Bis(2-chloroethyl)ether	ND	0.35	0.070	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 17:16	CMR
Bis(2-chloroisopropyl)ether	ND	0.35	0.076	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 17:16	CMR
Bis(2-Ethylhexyl)phthalate	0.20	0.35	0.14	mg/Kg dry	1	J	SW-846 8270D	3/23/16	3/24/16 17:16	CMR
4-Bromophenylphenylether	ND	0.35	0.059	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 17:16	CMR
Butylbenzylphthalate	ND	0.35	0.084	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 17:16	CMR
Carbazole	ND	0.18	0.046	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 17:16	CMR
4-Chloroaniline	ND	0.69	0.081	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 17:16	CMR
4-Chloro-3-methylphenol	ND	0.69	0.076	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 17:16	CMR
2-Chloronaphthalene	ND	0.35	0.066	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 17:16	CMR
2-Chlorophenol	ND	0.35	0.063	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 17:16	CMR
4-Chlorophenylphenylether	ND	0.35	0.059	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 17:16	CMR
Chrysene	ND	0.18	0.055	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 17:16	CMR
Dibenz(a,h)anthracene	ND	0.18	0.11	mg/Kg dry	1	V-05	SW-846 8270D	3/23/16	3/24/16 17:16	CMR
Dibenzofuran	ND	0.35	0.061	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 17:16	CMR
Di-n-butylphthalate	ND	0.35	0.077	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 17:16	CMR
3,3-Dichlorobenzidine	ND	0.18	0.054	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 17:16	CMR
2,4-Dichlorophenol	ND	0.35	0.060	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 17:16	CMR
Diethylphthalate	ND	0.35	0.063	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 17:16	CMR
2,4-Dimethylphenol	ND	0.35	0.065	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 17:16	CMR
Dimethylphthalate	ND	0.35	0.062	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 17:16	CMR
4,6-Dinitro-2-methylphenol	ND	0.35	0.34	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 17:16	CMR
2,4-Dinitrophenol	ND	0.69	0.20	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 17:16	CMR
2,4-Dinitrotoluene	ND	0.35	0.057	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 17:16	CMR
2,6-Dinitrotoluene	ND	0.35	0.062	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 17:16	CMR
Di-n-octylphthalate	ND	0.35	0.18	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 17:16	CMR
Fluoranthene	ND	0.18	0.058	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 17:16	CMR
Fluorene	ND	0.18	0.057	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 17:16	CMR
Hexachlorobenzene	ND	0.35	0.062	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 17:16	CMR
Hexachlorobutadiene	ND	0.35	0.062	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 17:16	CMR
Hexachlorocyclopentadiene	ND	0.35	0.075	mg/Kg dry	1	V-05	SW-846 8270D	3/23/16	3/24/16 17:16	CMR

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-5 (1-3)
Sampled: 3/20/2016 12:30
Sample ID: 16C0970-11
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachloroethane	ND	0.35	0.071	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 17:16	CMR
Indeno(1,2,3-cd)pyrene	ND	0.18	0.13	mg/Kg dry	1	V-05	SW-846 8270D	3/23/16	3/24/16 17:16	CMR
Isophorone	ND	0.35	0.069	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 17:16	CMR
2-Methylnaphthalene	ND	0.18	0.061	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 17:16	CMR
2-Methylphenol	ND	0.35	0.088	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 17:16	CMR
3/4-Methylphenol	ND	0.35	0.11	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 17:16	CMR
Naphthalene	ND	0.18	0.090	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 17:16	CMR
2-Nitroaniline	ND	0.35	0.059	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 17:16	CMR
3-Nitroaniline	ND	0.35	0.051	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 17:16	CMR
4-Nitroaniline	ND	0.35	0.059	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 17:16	CMR
Nitrobenzene	ND	0.35	0.066	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 17:16	CMR
2-Nitrophenol	ND	0.35	0.093	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 17:16	CMR
4-Nitrophenol	ND	0.69	0.077	mg/Kg dry	1	V-20	SW-846 8270D	3/23/16	3/24/16 17:16	CMR
N-Nitrosodiphenylamine	ND	0.35	0.073	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 17:16	CMR
N-Nitrosodi-n-propylamine	ND	0.35	0.073	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 17:16	CMR
Pentachlorophenol	ND	0.35	0.085	mg/Kg dry	1	V-05	SW-846 8270D	3/23/16	3/24/16 17:16	CMR
Phenanthrene	ND	0.18	0.091	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 17:16	CMR
Phenol	ND	0.35	0.060	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 17:16	CMR
Pyrene	ND	0.18	0.058	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 17:16	CMR
1,2,4,5-Tetrachlorobenzene	ND	0.35	0.063	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 17:16	CMR
2,4,5-Trichlorophenol	ND	0.35	0.080	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 17:16	CMR
2,4,6-Trichlorophenol	ND	0.35	0.059	mg/Kg dry	1		SW-846 8270D	3/23/16	3/24/16 17:16	CMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	71.1	30-130		3/24/16 17:16
Phenol-d6	74.8	30-130		3/24/16 17:16
Nitrobenzene-d5	75.9	30-130		3/24/16 17:16
2-Fluorobiphenyl	75.5	30-130		3/24/16 17:16
2,4,6-Tribromophenol	83.7	30-130		3/24/16 17:16
p-Terphenyl-d14	81.0	30-130		3/24/16 17:16

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

Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-5 (1-3)
Sampled: 3/20/2016 12:30
Sample ID: 16C0970-11
Sample Matrix: Soil

Tentatively Identified Compounds - SV Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg dry			1			SW-846 8270D	3/23/16	3/24/16 17:16	CMR

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Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-5 (1-3)
Sampled: 3/20/2016 12:30
Sample ID: 16C0970-11
Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-Chlordane [1]	ND	0.0052	0.00029	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 5:49	PJG
gamma-Chlordane [1]	ND	0.0052	0.00029	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 5:49	PJG
Alachlor [1]	ND	0.021	0.0011	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 5:49	PJG
Aldrin [1]	ND	0.0052	0.00031	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 5:49	PJG
alpha-BHC [1]	ND	0.0052	0.00042	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 5:49	PJG
beta-BHC [1]	ND	0.0052	0.00052	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 5:49	PJG
delta-BHC [1]	ND	0.0052	0.00042	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 5:49	PJG
gamma-BHC (Lindane) [1]	ND	0.0021	0.00052	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 5:49	PJG
Chlordane [1]	ND	0.021	0.0060	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 5:49	PJG
4,4'-DDD [2]	ND	0.0042	0.00042	mg/Kg dry	1	V-20	SW-846 8081B	3/22/16	3/25/16 5:49	PJG
4,4'-DDE [1]	ND	0.0042	0.00031	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 5:49	PJG
4,4'-DDT [1]	ND	0.0042	0.00042	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 5:49	PJG
Dieldrin [1]	ND	0.0042	0.00031	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 5:49	PJG
Endosulfan I [1]	ND	0.0052	0.00042	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 5:49	PJG
Endosulfan II [1]	ND	0.0083	0.00031	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 5:49	PJG
Endosulfan sulfate [1]	ND	0.0083	0.0013	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 5:49	PJG
Endrin [1]	ND	0.0083	0.00031	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 5:49	PJG
Endrin aldehyde [1]	ND	0.0083	0.0012	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 5:49	PJG
Endrin ketone [1]	ND	0.0083	0.00042	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 5:49	PJG
Heptachlor [1]	ND	0.0052	0.00052	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 5:49	PJG
Heptachlor epoxide [1]	ND	0.0052	0.00042	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 5:49	PJG
Hexachlorobenzene [2]	ND	0.0062	0.00073	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 5:49	PJG
Methoxychlor [1]	ND	0.052	0.00062	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 5:49	PJG
Toxaphene [1]	ND	0.10	0.045	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 5:49	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	102	30-150		3/25/16 5:49
Decachlorobiphenyl [2]	121	30-150		3/25/16 5:49
Tetrachloro-m-xylene [1]	83.8	30-150		3/25/16 5:49
Tetrachloro-m-xylene [2]	81.9	30-150		3/25/16 5:49

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

Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-5 (1-3)
Sampled: 3/20/2016 12:30
Sample ID: 16C0970-11
Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	0.062	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 19:39	BJH
Aroclor-1221 [1]	ND	0.10	0.067	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 19:39	BJH
Aroclor-1232 [1]	ND	0.10	0.047	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 19:39	BJH
Aroclor-1242 [1]	ND	0.10	0.052	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 19:39	BJH
Aroclor-1248 [1]	ND	0.10	0.062	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 19:39	BJH
Aroclor-1254 [1]	ND	0.10	0.067	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 19:39	BJH
Aroclor-1260 [1]	ND	0.10	0.073	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 19:39	BJH
Aroclor-1262 [1]	ND	0.10	0.052	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 19:39	BJH
Aroclor-1268 [1]	ND	0.10	0.042	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 19:39	BJH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	89.7	30-150		3/24/16 19:39
Decachlorobiphenyl [2]	101	30-150		3/24/16 19:39
Tetrachloro-m-xylene [1]	90.4	30-150		3/24/16 19:39
Tetrachloro-m-xylene [2]	104	30-150		3/24/16 19:39

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

Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-5 (1-3)
Sampled: 3/20/2016 12:30
Sample ID: 16C0970-11
Sample Matrix: Soil

Herbicides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-D [2]	ND	26	8.6	µg/kg dry	1		SW-846 8151A	3/22/16	3/27/16 6:56	JMB
2,4,5-TP (Silvex) [2]	ND	2.6	1.6	µg/kg dry	1		SW-846 8151A	3/22/16	3/27/16 6:56	JMB
2,4,5-T [2]	ND	2.6	1.1	µg/kg dry	1		SW-846 8151A	3/22/16	3/27/16 6:56	JMB
Dalapon [2]	ND	64	10	µg/kg dry	1	V-20	SW-846 8151A	3/22/16	3/27/16 6:56	JMB
Dicamba [2]	ND	2.6	1.3	µg/kg dry	1		SW-846 8151A	3/22/16	3/27/16 6:56	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2,4-Dichlorophenylacetic acid [1]	85.0	30-150		3/27/16 6:56
2,4-Dichlorophenylacetic acid [2]	73.0	30-150		3/27/16 6:56

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

Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-5 (1-3)
Sampled: 3/20/2016 12:30
Sample ID: 16C0970-11
Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	5000	2.4	2.1	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 14:53	AME
Antimony	ND	2.4	0.91	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 14:53	AME
Arsenic	1.1	2.4	0.45	mg/Kg dry	1	J	SW-846 6010C-D	3/22/16	3/25/16 14:53	AME
Barium	27	2.4	0.76	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 14:53	AME
Beryllium	0.42	0.24	0.20	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 14:53	AME
Cadmium	0.22	0.24	0.11	mg/Kg dry	1	J	SW-846 6010C-D	3/22/16	3/25/16 14:53	AME
Calcium	670	7.3	4.4	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/28/16 20:34	AME
Chromium	12	0.49	0.23	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 14:53	AME
Cobalt	3.4	2.4	0.75	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 14:53	AME
Copper	9.1	0.49	0.18	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 14:53	AME
Iron	8400	2.4	1.3	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 14:53	AME
Lead	4.8	0.73	0.26	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/28/16 20:34	AME
Magnesium	2700	7.3	3.7	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 14:53	AME
Manganese	200	0.49	0.34	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 14:53	AME
Mercury	0.013	0.026	0.0043	mg/Kg dry	1	J	SW-846 7471B	3/22/16	3/23/16 15:26	TGW
Nickel	8.5	0.49	0.14	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 14:53	AME
Potassium	870	98	13	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 14:53	AME
Selenium	ND	4.9		mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 14:53	AME
Silver	ND	0.49	0.39	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 14:53	AME
Sodium	90	98	34	mg/Kg dry	1	J	SW-846 6010C-D	3/22/16	3/25/16 14:53	AME
Thallium	ND	2.4	1.6	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 14:53	AME
Vanadium	14	0.98	0.28	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 14:53	AME
Zinc	26	0.98	0.80	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 14:53	AME

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

Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-5 (1-3)
Sampled: 3/20/2016 12:30
Sample ID: 16C0970-11
Sample Matrix: Soil

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

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	96.3			% Wt	1		SM 2540G	3/22/16	3/23/16 8:20	MRL

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Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-5 (10-12)
Sampled: 3/20/2016 12:45
Sample ID: 16C0970-12
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.11	0.025	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 14:56	MFF
Benzene	ND	0.0021	0.00074	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 14:56	MFF
Bromochloromethane	ND	0.0021	0.0015	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 14:56	MFF
Bromodichloromethane	ND	0.0021	0.00064	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 14:56	MFF
Bromoform	ND	0.0021	0.0015	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 14:56	MFF
Bromomethane	ND	0.011	0.0018	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 14:56	MFF
2-Butanone (MEK)	ND	0.043	0.019	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 14:56	MFF
Carbon Disulfide	ND	0.0064	0.0037	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 14:56	MFF
Carbon Tetrachloride	ND	0.0021	0.00085	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 14:56	MFF
Chlorobenzene	ND	0.0021	0.00074	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 14:56	MFF
Chlorodibromomethane	ND	0.0011	0.00074	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 14:56	MFF
Chloroethane	ND	0.021	0.0016	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 14:56	MFF
Chloroform	ND	0.0043	0.00074	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 14:56	MFF
Chloromethane	ND	0.011	0.00096	mg/Kg dry	1	L-04, V-05	SW-846 8260C	3/23/16	3/23/16 14:56	MFF
Cyclohexane	ND	0.0021	0.00085	mg/Kg dry	1	V-05	SW-846 8260C	3/23/16	3/23/16 14:56	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0021	0.0012	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 14:56	MFF
1,2-Dibromoethane (EDB)	ND	0.0011	0.0011	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 14:56	MFF
1,2-Dichlorobenzene	ND	0.0021	0.00074	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 14:56	MFF
1,3-Dichlorobenzene	ND	0.0021	0.00074	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 14:56	MFF
1,4-Dichlorobenzene	ND	0.0021	0.00085	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 14:56	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.021	0.0014	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 14:56	MFF
1,1-Dichloroethane	ND	0.0021	0.00074	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 14:56	MFF
1,2-Dichloroethane	ND	0.0021	0.0014	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 14:56	MFF
1,1-Dichloroethylene	ND	0.0043	0.0012	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 14:56	MFF
cis-1,2-Dichloroethylene	ND	0.0021	0.00085	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 14:56	MFF
trans-1,2-Dichloroethylene	ND	0.0021	0.00096	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 14:56	MFF
1,2-Dichloropropane	ND	0.0021	0.0014	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 14:56	MFF
cis-1,3-Dichloropropene	ND	0.0011	0.00074	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 14:56	MFF
trans-1,3-Dichloropropene	ND	0.0011	0.00074	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 14:56	MFF
Ethylbenzene	ND	0.0021	0.00085	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 14:56	MFF
2-Hexanone (MBK)	ND	0.021	0.012	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 14:56	MFF
Isopropylbenzene (Cumene)	ND	0.0021	0.00074	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 14:56	MFF
Methyl Acetate	ND	0.0021	0.0017	mg/Kg dry	1	V-05	SW-846 8260C	3/23/16	3/23/16 14:56	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0043	0.00096	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 14:56	MFF
Methyl Cyclohexane	ND	0.0021	0.0011	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 14:56	MFF
Methylene Chloride	ND	0.021	0.0076	mg/Kg dry	1	V-05	SW-846 8260C	3/23/16	3/23/16 14:56	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.021	0.0081	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 14:56	MFF
Styrene	ND	0.0021	0.00064	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 14:56	MFF
1,1,2,2-Tetrachloroethane	ND	0.0011	0.00096	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 14:56	MFF
Tetrachloroethylene	ND	0.0021	0.0014	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 14:56	MFF
Toluene	ND	0.0021	0.00085	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 14:56	MFF
1,2,3-Trichlorobenzene	ND	0.0021	0.00064	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 14:56	MFF
1,2,4-Trichlorobenzene	ND	0.0021	0.00085	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 14:56	MFF
1,1,1-Trichloroethane	ND	0.0021	0.0011	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 14:56	MFF

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-5 (10-12)
Sampled: 3/20/2016 12:45
Sample ID: 16C0970-12
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,2-Trichloroethane	ND	0.0021	0.0013	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 14:56	MFF
Trichloroethylene	ND	0.0021	0.0011	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 14:56	MFF
Trichlorofluoromethane (Freon 11)	ND	0.011	0.0012	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 14:56	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.011	0.00096	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 14:56	MFF
Vinyl Chloride	ND	0.011	0.0012	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 14:56	MFF
m+p Xylene	ND	0.0043	0.0018	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 14:56	MFF
o-Xylene	ND	0.0021	0.00074	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 14:56	MFF
Xylenes (total)	ND	0.0064		mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 14:56	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	103	70-130		3/23/16 14:56
Toluene-d8	92.1	70-130		3/23/16 14:56
4-Bromofluorobenzene	99.2	70-130		3/23/16 14:56

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

Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-5 (10-12)
Sampled: 3/20/2016 12:45
Sample ID: 16C0970-12
Sample Matrix: Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg dry			1			SW-846 8260C	3/23/16	3/23/16 14:56	MFF

con-test® ANALYTICAL LABORATORY

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

Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-5 (10-12)
Sampled: 3/20/2016 12:45
Sample ID: 16C0970-12
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Atrazine	ND	0.71	0.60	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 15:38	CMR
Benzaldehyde	ND	0.36	0.34	mg/Kg dry	1	V-20	SW-846 8270D	3/23/16	3/26/16 15:38	CMR
Biphenyl	ND	0.71	0.45	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 15:38	CMR
Caprolactam	ND	0.36	0.27	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 15:38	CMR
Acenaphthene	ND	0.18	0.054	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 15:38	CMR
Acenaphthylene	ND	0.18	0.061	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 15:38	CMR
Acetophenone	ND	0.36	0.071	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 15:38	CMR
Anthracene	ND	0.18	0.052	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 15:38	CMR
Benzo(a)anthracene	ND	0.18	0.048	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 15:38	CMR
Benzo(a)pyrene	ND	0.18	0.056	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 15:38	CMR
Benzo(b)fluoranthene	ND	0.18	0.051	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 15:38	CMR
Benzo(g,h,i)perylene	ND	0.18	0.080	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 15:38	CMR
Benzo(k)fluoranthene	ND	0.18	0.056	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 15:38	CMR
Bis(2-chloroethoxy)methane	ND	0.36	0.069	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 15:38	CMR
Bis(2-chloroethyl)ether	ND	0.36	0.071	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 15:38	CMR
Bis(2-chloroisopropyl)ether	ND	0.36	0.077	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 15:38	CMR
Bis(2-Ethylhexyl)phthalate	0.14	0.36	0.14	mg/Kg dry	1	J	SW-846 8270D	3/23/16	3/26/16 15:38	CMR
4-Bromophenylphenylether	ND	0.36	0.061	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 15:38	CMR
Butylbenzylphthalate	ND	0.36	0.086	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 15:38	CMR
Carbazole	ND	0.18	0.047	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 15:38	CMR
4-Chloroaniline	ND	0.70	0.083	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 15:38	CMR
4-Chloro-3-methylphenol	ND	0.70	0.077	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 15:38	CMR
2-Chloronaphthalene	ND	0.36	0.068	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 15:38	CMR
2-Chlorophenol	ND	0.36	0.065	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 15:38	CMR
4-Chlorophenylphenylether	ND	0.36	0.061	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 15:38	CMR
Chrysene	ND	0.18	0.056	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 15:38	CMR
Dibenz(a,h)anthracene	ND	0.18	0.11	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 15:38	CMR
Dibenzofuran	ND	0.36	0.063	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 15:38	CMR
Di-n-butylphthalate	ND	0.36	0.079	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 15:38	CMR
3,3-Dichlorobenzidine	ND	0.18	0.055	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 15:38	CMR
2,4-Dichlorophenol	ND	0.36	0.062	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 15:38	CMR
Diethylphthalate	ND	0.36	0.065	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 15:38	CMR
2,4-Dimethylphenol	ND	0.36	0.067	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 15:38	CMR
Dimethylphthalate	ND	0.36	0.064	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 15:38	CMR
4,6-Dinitro-2-methylphenol	ND	0.36	0.34	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 15:38	CMR
2,4-Dinitrophenol	ND	0.70	0.21	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 15:38	CMR
2,4-Dinitrotoluene	ND	0.36	0.058	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 15:38	CMR
2,6-Dinitrotoluene	ND	0.36	0.064	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 15:38	CMR
Di-n-octylphthalate	ND	0.36	0.19	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 15:38	CMR
Fluoranthene	ND	0.18	0.059	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 15:38	CMR
Fluorene	ND	0.18	0.058	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 15:38	CMR
Hexachlorobenzene	ND	0.36	0.064	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 15:38	CMR
Hexachlorobutadiene	ND	0.36	0.064	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 15:38	CMR
Hexachlorocyclopentadiene	ND	0.36	0.076	mg/Kg dry	1	V-05	SW-846 8270D	3/23/16	3/26/16 15:38	CMR

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-5 (10-12)
Sampled: 3/20/2016 12:45
Sample ID: 16C0970-12
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachloroethane	ND	0.36	0.072	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 15:38	CMR
Indeno(1,2,3-cd)pyrene	ND	0.18	0.13	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 15:38	CMR
Isophorone	ND	0.36	0.070	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 15:38	CMR
2-Methylnaphthalene	ND	0.18	0.063	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 15:38	CMR
2-Methylphenol	ND	0.36	0.090	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 15:38	CMR
3/4-Methylphenol	ND	0.36	0.11	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 15:38	CMR
Naphthalene	ND	0.18	0.092	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 15:38	CMR
2-Nitroaniline	ND	0.36	0.061	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 15:38	CMR
3-Nitroaniline	ND	0.36	0.052	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 15:38	CMR
4-Nitroaniline	ND	0.36	0.061	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 15:38	CMR
Nitrobenzene	ND	0.36	0.068	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 15:38	CMR
2-Nitrophenol	ND	0.36	0.096	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 15:38	CMR
4-Nitrophenol	ND	0.70	0.079	mg/Kg dry	1	V-20	SW-846 8270D	3/23/16	3/26/16 15:38	CMR
N-Nitrosodiphenylamine	ND	0.36	0.074	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 15:38	CMR
N-Nitrosodi-n-propylamine	ND	0.36	0.074	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 15:38	CMR
Pentachlorophenol	ND	0.36	0.087	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 15:38	CMR
Phenanthrene	ND	0.18	0.093	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 15:38	CMR
Phenol	ND	0.36	0.062	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 15:38	CMR
Pyrene	ND	0.18	0.059	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 15:38	CMR
1,2,4,5-Tetrachlorobenzene	ND	0.36	0.065	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 15:38	CMR
2,4,5-Trichlorophenol	ND	0.36	0.082	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 15:38	CMR
2,4,6-Trichlorophenol	ND	0.36	0.061	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 15:38	CMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	59.6	30-130		3/26/16 15:38
Phenol-d6	64.0	30-130		3/26/16 15:38
Nitrobenzene-d5	67.9	30-130		3/26/16 15:38
2-Fluorobiphenyl	66.8	30-130		3/26/16 15:38
2,4,6-Tribromophenol	75.4	30-130		3/26/16 15:38
p-Terphenyl-d14	76.6	30-130		3/26/16 15:38

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

Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-5 (10-12)
Sampled: 3/20/2016 12:45
Sample ID: 16C0970-12
Sample Matrix: Soil

Tentatively Identified Compounds - SV Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg dry			1			SW-846 8270D	3/23/16	3/26/16 15:38	BGL

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-5 (10-12)
Sampled: 3/20/2016 12:45
Sample ID: 16C0970-12
Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-Chlordane [1]	ND	0.0053	0.00030	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 6:12	PJG
gamma-Chlordane [1]	ND	0.0053	0.00030	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 6:12	PJG
Alachlor [1]	ND	0.021	0.0012	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 6:12	PJG
Aldrin [1]	ND	0.0053	0.00032	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 6:12	PJG
alpha-BHC [1]	ND	0.0053	0.00042	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 6:12	PJG
beta-BHC [1]	ND	0.0053	0.00053	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 6:12	PJG
delta-BHC [1]	ND	0.0053	0.00042	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 6:12	PJG
gamma-BHC (Lindane) [1]	ND	0.0021	0.00053	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 6:12	PJG
Chlordane [1]	ND	0.021	0.0062	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 6:12	PJG
4,4'-DDD [2]	ND	0.0042	0.00042	mg/Kg dry	1	V-20	SW-846 8081B	3/22/16	3/25/16 6:12	PJG
4,4'-DDE [1]	ND	0.0042	0.00032	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 6:12	PJG
4,4'-DDT [1]	ND	0.0042	0.00042	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 6:12	PJG
Dieldrin [1]	ND	0.0042	0.00032	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 6:12	PJG
Endosulfan I [1]	ND	0.0053	0.00042	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 6:12	PJG
Endosulfan II [1]	ND	0.0085	0.00032	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 6:12	PJG
Endosulfan sulfate [1]	ND	0.0085	0.0014	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 6:12	PJG
Endrin [1]	ND	0.0085	0.00032	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 6:12	PJG
Endrin aldehyde [1]	ND	0.0085	0.0013	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 6:12	PJG
Endrin ketone [1]	ND	0.0085	0.00042	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 6:12	PJG
Heptachlor [1]	ND	0.0053	0.00053	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 6:12	PJG
Heptachlor epoxide [1]	ND	0.0053	0.00042	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 6:12	PJG
Hexachlorobenzene [2]	ND	0.0064	0.00074	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 6:12	PJG
Methoxychlor [1]	ND	0.053	0.00064	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 6:12	PJG
Toxaphene [1]	ND	0.11	0.046	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 6:12	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	90.3	30-150		3/25/16 6:12
Decachlorobiphenyl [2]	108	30-150		3/25/16 6:12
Tetrachloro-m-xylene [1]	77.2	30-150		3/25/16 6:12
Tetrachloro-m-xylene [2]	75.4	30-150		3/25/16 6:12

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-5 (10-12)
Sampled: 3/20/2016 12:45
Sample ID: 16C0970-12
Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	0.064	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 20:31	BJH
Aroclor-1221 [1]	ND	0.11	0.069	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 20:31	BJH
Aroclor-1232 [1]	ND	0.11	0.048	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 20:31	BJH
Aroclor-1242 [1]	ND	0.11	0.053	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 20:31	BJH
Aroclor-1248 [1]	ND	0.11	0.064	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 20:31	BJH
Aroclor-1254 [1]	ND	0.11	0.069	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 20:31	BJH
Aroclor-1260 [1]	ND	0.11	0.074	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 20:31	BJH
Aroclor-1262 [1]	ND	0.11	0.053	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 20:31	BJH
Aroclor-1268 [1]	ND	0.11	0.042	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 20:31	BJH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	87.7	30-150		3/24/16 20:31
Decachlorobiphenyl [2]	97.6	30-150		3/24/16 20:31
Tetrachloro-m-xylene [1]	82.8	30-150		3/24/16 20:31
Tetrachloro-m-xylene [2]	93.2	30-150		3/24/16 20:31

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Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-5 (10-12)
Sampled: 3/20/2016 12:45
Sample ID: 16C0970-12
Sample Matrix: Soil

Herbicides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-D [2]	ND	27	8.8	µg/kg dry	1		SW-846 8151A	3/22/16	3/27/16 7:35	JMB
2,4,5-TP (Silvex) [2]	ND	2.7	1.6	µg/kg dry	1		SW-846 8151A	3/22/16	3/27/16 7:35	JMB
2,4,5-T [2]	ND	2.7	1.2	µg/kg dry	1		SW-846 8151A	3/22/16	3/27/16 7:35	JMB
Dalapon [2]	ND	66	10	µg/kg dry	1	V-20	SW-846 8151A	3/22/16	3/27/16 7:35	JMB
Dicamba [2]	ND	2.7	1.3	µg/kg dry	1		SW-846 8151A	3/22/16	3/27/16 7:35	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2,4-Dichlorophenylacetic acid [1]	90.9	30-150		3/27/16 7:35
2,4-Dichlorophenylacetic acid [2]	78.5	30-150		3/27/16 7:35

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Field Sample #: TRC-SB-5 (10-12)
Sampled: 3/20/2016 12:45
Sample ID: 16C0970-12
Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Gasoline Range Organics (GRO)	ND	1.1	1.1	mg/Kg dry	1		SW-846 8015C	3/24/16	3/24/16 16:58	EEH
Diesel Range Organics	2.2	8.8	2.0	mg/Kg dry	1	J	SW-846 8015C	3/22/16	3/23/16 11:39	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1-Chloro-3-fluorobenzene	73.3	70-130		3/24/16 16:58
o-Terphenyl	64.7	40-140		3/23/16 11:39

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Field Sample #: TRC-SB-5 (10-12)
Sampled: 3/20/2016 12:45
Sample ID: 16C0970-12
Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	6000	2.5	2.1	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 14:58	AME
Antimony	ND	2.5	0.91	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 14:58	AME
Arsenic	1.7	2.5	0.45	mg/Kg dry	1	J	SW-846 6010C-D	3/22/16	3/25/16 14:58	AME
Barium	34	2.5	0.76	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 14:58	AME
Beryllium	0.51	0.25	0.20	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 14:58	AME
Cadmium	0.26	0.25	0.11	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 14:58	AME
Calcium	1400	7.4	4.4	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/28/16 20:39	AME
Chromium	11	0.49	0.23	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 14:58	AME
Cobalt	5.9	2.5	0.75	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 14:58	AME
Copper	15	0.49	0.18	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 14:58	AME
Iron	12000	2.5	1.3	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 14:58	AME
Lead	4.1	0.74	0.26	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/28/16 20:39	AME
Magnesium	2700	7.4	3.7	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 14:58	AME
Manganese	280	0.49	0.34	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 14:58	AME
Mercury	0.0064	0.027	0.0046	mg/Kg dry	1	J	SW-846 7471B	3/22/16	3/23/16 15:27	TGW
Nickel	11	0.49	0.14	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 14:58	AME
Potassium	1100	98	13	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 14:58	AME
Selenium	ND	4.9		mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 14:58	AME
Silver	ND	0.49	0.39	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 14:58	AME
Sodium	82	98	34	mg/Kg dry	1	J	SW-846 6010C-D	3/22/16	3/25/16 14:58	AME
Thallium	ND	2.5	1.6	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 14:58	AME
Vanadium	16	0.98	0.28	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 14:58	AME
Zinc	32	0.98	0.80	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 14:58	AME

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Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-5 (10-12)
Sampled: 3/20/2016 12:45
Sample ID: 16C0970-12
Sample Matrix: Soil

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

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	ND	0.50	0.24	mg/Kg dry	1		SW-846 9014	3/24/16	3/25/16 10:50	VAK
Hexavalent Chromium	ND	0.17	0.13	mg/Kg dry	1		SW-846 7196A	3/25/16	3/28/16 11:20	LL
Ignitability	Absent			present/absent	1		SW-846 1030	3/23/16	3/23/16 19:35	DJM
pH @21.4°C	5.2			pH Units	1	H-03	SW-846 9045C	3/23/16	3/23/16 7:55	LL
Reactive Cyanide	ND	4.0	4.0	mg/Kg	1		SW-846 9014	3/24/16	3/25/16 16:30	AG
Reactive Sulfide	ND	20	20	mg/Kg	1		SW-846 9030A	3/24/16	3/25/16 16:30	AG
% Solids	94.2			% Wt	1		SM 2540G	3/22/16	3/23/16 8:20	MRL

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Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-6 (1-3)
Sampled: 3/19/2016 16:35
Sample ID: 16C0970-13
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.11	0.025	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 15:23	MFF
Benzene	ND	0.0021	0.00075	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 15:23	MFF
Bromochloromethane	ND	0.0021	0.0015	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 15:23	MFF
Bromodichloromethane	ND	0.0021	0.00064	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 15:23	MFF
Bromoform	ND	0.0021	0.0015	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 15:23	MFF
Bromomethane	ND	0.011	0.0018	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 15:23	MFF
2-Butanone (MEK)	ND	0.043	0.019	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 15:23	MFF
Carbon Disulfide	ND	0.0064	0.0037	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 15:23	MFF
Carbon Tetrachloride	ND	0.0021	0.00085	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 15:23	MFF
Chlorobenzene	ND	0.0021	0.00075	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 15:23	MFF
Chlorodibromomethane	ND	0.0011	0.00075	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 15:23	MFF
Chloroethane	ND	0.021	0.0016	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 15:23	MFF
Chloroform	ND	0.0043	0.00075	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 15:23	MFF
Chloromethane	ND	0.011	0.00096	mg/Kg dry	1	L-04, V-05	SW-846 8260C	3/23/16	3/23/16 15:23	MFF
Cyclohexane	ND	0.0021	0.00085	mg/Kg dry	1	V-05	SW-846 8260C	3/23/16	3/23/16 15:23	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0021	0.0012	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 15:23	MFF
1,2-Dibromoethane (EDB)	ND	0.0011	0.0011	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 15:23	MFF
1,2-Dichlorobenzene	ND	0.0021	0.00075	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 15:23	MFF
1,3-Dichlorobenzene	ND	0.0021	0.00075	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 15:23	MFF
1,4-Dichlorobenzene	ND	0.0021	0.00085	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 15:23	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.021	0.0014	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 15:23	MFF
1,1-Dichloroethane	ND	0.0021	0.00075	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 15:23	MFF
1,2-Dichloroethane	ND	0.0021	0.0014	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 15:23	MFF
1,1-Dichloroethylene	ND	0.0043	0.0012	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 15:23	MFF
cis-1,2-Dichloroethylene	ND	0.0021	0.00085	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 15:23	MFF
trans-1,2-Dichloroethylene	ND	0.0021	0.00096	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 15:23	MFF
1,2-Dichloropropane	ND	0.0021	0.0014	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 15:23	MFF
cis-1,3-Dichloropropene	ND	0.0011	0.00075	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 15:23	MFF
trans-1,3-Dichloropropene	ND	0.0011	0.00075	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 15:23	MFF
Ethylbenzene	ND	0.0021	0.00085	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 15:23	MFF
2-Hexanone (MBK)	ND	0.021	0.012	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 15:23	MFF
Isopropylbenzene (Cumene)	ND	0.0021	0.00075	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 15:23	MFF
Methyl Acetate	ND	0.0021	0.0017	mg/Kg dry	1	V-05	SW-846 8260C	3/23/16	3/23/16 15:23	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0043	0.00096	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 15:23	MFF
Methyl Cyclohexane	ND	0.0021	0.0011	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 15:23	MFF
Methylene Chloride	ND	0.021	0.0076	mg/Kg dry	1	V-05	SW-846 8260C	3/23/16	3/23/16 15:23	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.021	0.0081	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 15:23	MFF
Styrene	ND	0.0021	0.00064	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 15:23	MFF
1,1,2,2-Tetrachloroethane	ND	0.0011	0.00096	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 15:23	MFF
Tetrachloroethylene	ND	0.0021	0.0014	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 15:23	MFF
Toluene	ND	0.0021	0.00085	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 15:23	MFF
1,2,3-Trichlorobenzene	ND	0.0021	0.00064	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 15:23	MFF
1,2,4-Trichlorobenzene	ND	0.0021	0.00085	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 15:23	MFF
1,1,1-Trichloroethane	ND	0.0021	0.0011	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 15:23	MFF

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Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-6 (1-3)
Sampled: 3/19/2016 16:35
Sample ID: 16C0970-13
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,2-Trichloroethane	ND	0.0021	0.0013	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 15:23	MFF
Trichloroethylene	ND	0.0021	0.0011	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 15:23	MFF
Trichlorofluoromethane (Freon 11)	ND	0.011	0.0012	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 15:23	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.011	0.00096	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 15:23	MFF
Vinyl Chloride	ND	0.011	0.0012	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 15:23	MFF
m+p Xylene	ND	0.0043	0.0018	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 15:23	MFF
o-Xylene	ND	0.0021	0.00075	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 15:23	MFF
Xylenes (total)	ND	0.0064		mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 15:23	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	106	70-130		3/23/16 15:23
Toluene-d8	92.3	70-130		3/23/16 15:23
4-Bromofluorobenzene	98.4	70-130		3/23/16 15:23

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Date Received: 3/21/2016
Field Sample #: TRC-SB-6 (1-3)
Sampled: 3/19/2016 16:35
Sample ID: 16C0970-13
Sample Matrix: Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg dry			1			SW-846 8260C	3/23/16	3/23/16 15:23	MFF

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Sampled: 3/19/2016 16:35
Sample ID: 16C0970-13
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Atrazine	ND	0.71	0.60	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:03	CMR
Benzaldehyde	ND	0.36	0.34	mg/Kg dry	1	V-20	SW-846 8270D	3/23/16	3/26/16 16:03	CMR
Biphenyl	ND	0.71	0.45	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:03	CMR
Caprolactam	ND	0.36	0.27	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:03	CMR
Acenaphthene	ND	0.18	0.054	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:03	CMR
Acenaphthylene	ND	0.18	0.061	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:03	CMR
Acetophenone	ND	0.36	0.071	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:03	CMR
Anthracene	ND	0.18	0.052	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:03	CMR
Benzo(a)anthracene	ND	0.18	0.048	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:03	CMR
Benzo(a)pyrene	ND	0.18	0.056	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:03	CMR
Benzo(b)fluoranthene	ND	0.18	0.051	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:03	CMR
Benzo(g,h,i)perylene	ND	0.18	0.080	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:03	CMR
Benzo(k)fluoranthene	ND	0.18	0.056	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:03	CMR
Bis(2-chloroethoxy)methane	ND	0.36	0.069	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:03	CMR
Bis(2-chloroethyl)ether	ND	0.36	0.071	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:03	CMR
Bis(2-chloroisopropyl)ether	ND	0.36	0.078	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:03	CMR
Bis(2-Ethylhexyl)phthalate	ND	0.36	0.14	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:03	CMR
4-Bromophenylphenylether	ND	0.36	0.061	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:03	CMR
Butylbenzylphthalate	ND	0.36	0.086	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:03	CMR
Carbazole	ND	0.18	0.047	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:03	CMR
4-Chloroaniline	ND	0.70	0.083	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:03	CMR
4-Chloro-3-methylphenol	ND	0.70	0.078	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:03	CMR
2-Chloronaphthalene	ND	0.36	0.068	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:03	CMR
2-Chlorophenol	ND	0.36	0.065	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:03	CMR
4-Chlorophenylphenylether	ND	0.36	0.061	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:03	CMR
Chrysene	ND	0.18	0.056	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:03	CMR
Dibenz(a,h)anthracene	ND	0.18	0.11	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:03	CMR
Dibenzofuran	ND	0.36	0.063	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:03	CMR
Di-n-butylphthalate	ND	0.36	0.079	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:03	CMR
3,3-Dichlorobenzidine	ND	0.18	0.055	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:03	CMR
2,4-Dichlorophenol	ND	0.36	0.062	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:03	CMR
Diethylphthalate	ND	0.36	0.065	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:03	CMR
2,4-Dimethylphenol	ND	0.36	0.067	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:03	CMR
Dimethylphthalate	ND	0.36	0.064	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:03	CMR
4,6-Dinitro-2-methylphenol	ND	0.36	0.34	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:03	CMR
2,4-Dinitrophenol	ND	0.70	0.21	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:03	CMR
2,4-Dinitrotoluene	ND	0.36	0.058	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:03	CMR
2,6-Dinitrotoluene	ND	0.36	0.064	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:03	CMR
Di-n-octylphthalate	ND	0.36	0.19	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:03	CMR
Fluoranthene	ND	0.18	0.060	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:03	CMR
Fluorene	ND	0.18	0.058	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:03	CMR
Hexachlorobenzene	ND	0.36	0.064	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:03	CMR
Hexachlorobutadiene	ND	0.36	0.064	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:03	CMR
Hexachlorocyclopentadiene	ND	0.36	0.077	mg/Kg dry	1	V-05	SW-846 8270D	3/23/16	3/26/16 16:03	CMR

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

Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-6 (1-3)
Sampled: 3/19/2016 16:35
Sample ID: 16C0970-13
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachloroethane	ND	0.36	0.072	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:03	CMR
Indeno(1,2,3-cd)pyrene	ND	0.18	0.13	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:03	CMR
Isophorone	ND	0.36	0.070	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:03	CMR
2-Methylnaphthalene	ND	0.18	0.063	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:03	CMR
2-Methylphenol	ND	0.36	0.090	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:03	CMR
3/4-Methylphenol	ND	0.36	0.11	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:03	CMR
Naphthalene	ND	0.18	0.092	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:03	CMR
2-Nitroaniline	ND	0.36	0.061	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:03	CMR
3-Nitroaniline	ND	0.36	0.052	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:03	CMR
4-Nitroaniline	ND	0.36	0.061	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:03	CMR
Nitrobenzene	ND	0.36	0.068	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:03	CMR
2-Nitrophenol	ND	0.36	0.096	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:03	CMR
4-Nitrophenol	ND	0.70	0.079	mg/Kg dry	1	V-20	SW-846 8270D	3/23/16	3/26/16 16:03	CMR
N-Nitrosodiphenylamine	ND	0.36	0.074	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:03	CMR
N-Nitrosodi-n-propylamine	ND	0.36	0.074	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:03	CMR
Pentachlorophenol	ND	0.36	0.087	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:03	CMR
Phenanthrene	ND	0.18	0.094	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:03	CMR
Phenol	ND	0.36	0.062	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:03	CMR
Pyrene	ND	0.18	0.060	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:03	CMR
1,2,4,5-Tetrachlorobenzene	ND	0.36	0.065	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:03	CMR
2,4,5-Trichlorophenol	ND	0.36	0.082	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:03	CMR
2,4,6-Trichlorophenol	ND	0.36	0.061	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:03	CMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	77.2	30-130		3/26/16 16:03
Phenol-d6	93.5	30-130		3/26/16 16:03
Nitrobenzene-d5	99.2	30-130		3/26/16 16:03
2-Fluorobiphenyl	92.1	30-130		3/26/16 16:03
2,4,6-Tribromophenol	86.0	30-130		3/26/16 16:03
p-Terphenyl-d14	116	30-130		3/26/16 16:03

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

Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-6 (1-3)
Sampled: 3/19/2016 16:35
Sample ID: 16C0970-13
Sample Matrix: Soil

Tentatively Identified Compounds - SV Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg dry			1			SW-846 8270D	3/23/16	3/26/16 16:03	BGL

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Sampled: 3/19/2016 16:35
Sample ID: 16C0970-13
Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-Chlordane [1]	ND	0.0053	0.00030	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 6:35	PJG
gamma-Chlordane [1]	ND	0.0053	0.00030	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 6:35	PJG
Alachlor [1]	ND	0.021	0.0012	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 6:35	PJG
Aldrin [1]	ND	0.0053	0.00032	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 6:35	PJG
alpha-BHC [1]	ND	0.0053	0.00043	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 6:35	PJG
beta-BHC [2]	0.0014	0.0053	0.00053	mg/Kg dry	1	P-01, J	SW-846 8081B	3/22/16	3/25/16 6:35	PJG
delta-BHC [1]	ND	0.0053	0.00043	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 6:35	PJG
gamma-BHC (Lindane) [1]	ND	0.0021	0.00053	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 6:35	PJG
Chlordane [1]	ND	0.021	0.0062	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 6:35	PJG
4,4'-DDD [2]	ND	0.0043	0.00043	mg/Kg dry	1	V-20	SW-846 8081B	3/22/16	3/25/16 6:35	PJG
4,4'-DDE [1]	0.00034	0.0043	0.00032	mg/Kg dry	1	P-01, V-24, J	SW-846 8081B	3/22/16	3/25/16 6:35	PJG
4,4'-DDT [1]	ND	0.0043	0.00043	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 6:35	PJG
Dieldrin [1]	ND	0.0043	0.00032	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 6:35	PJG
Endosulfan I [1]	ND	0.0053	0.00043	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 6:35	PJG
Endosulfan II [1]	ND	0.0085	0.00032	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 6:35	PJG
Endosulfan sulfate [1]	ND	0.0085	0.0014	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 6:35	PJG
Endrin [1]	ND	0.0085	0.00032	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 6:35	PJG
Endrin aldehyde [1]	ND	0.0085	0.0013	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 6:35	PJG
Endrin ketone [1]	ND	0.0085	0.00043	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 6:35	PJG
Heptachlor [1]	ND	0.0053	0.00053	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 6:35	PJG
Heptachlor epoxide [1]	ND	0.0053	0.00043	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 6:35	PJG
Hexachlorobenzene [2]	ND	0.0064	0.00074	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 6:35	PJG
Methoxychlor [1]	ND	0.053	0.00064	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 6:35	PJG
Toxaphene [1]	ND	0.11	0.046	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 6:35	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	104	30-150		3/25/16 6:35
Decachlorobiphenyl [2]	124	30-150		3/25/16 6:35
Tetrachloro-m-xylene [1]	86.0	30-150		3/25/16 6:35
Tetrachloro-m-xylene [2]	83.6	30-150		3/25/16 6:35

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Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-6 (1-3)
Sampled: 3/19/2016 16:35
Sample ID: 16C0970-13
Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	0.064	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 20:44	BJH
Aroclor-1221 [1]	ND	0.11	0.069	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 20:44	BJH
Aroclor-1232 [1]	ND	0.11	0.048	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 20:44	BJH
Aroclor-1242 [1]	ND	0.11	0.053	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 20:44	BJH
Aroclor-1248 [1]	ND	0.11	0.064	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 20:44	BJH
Aroclor-1254 [1]	ND	0.11	0.069	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 20:44	BJH
Aroclor-1260 [1]	ND	0.11	0.074	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 20:44	BJH
Aroclor-1262 [1]	ND	0.11	0.053	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 20:44	BJH
Aroclor-1268 [1]	ND	0.11	0.043	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 20:44	BJH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	96.7	30-150		3/24/16 20:44
Decachlorobiphenyl [2]	108	30-150		3/24/16 20:44
Tetrachloro-m-xylene [1]	91.6	30-150		3/24/16 20:44
Tetrachloro-m-xylene [2]	104	30-150		3/24/16 20:44

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Project Location: 450Q
Sample Description:
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Date Received: 3/21/2016
Field Sample #: TRC-SB-6 (1-3)
Sampled: 3/19/2016 16:35
Sample ID: 16C0970-13
Sample Matrix: Soil

Herbicides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-D [2]	ND	27	8.8	µg/kg dry	1		SW-846 8151A	3/23/16	3/27/16 8:14	JMB
2,4,5-TP (Silvex) [2]	ND	2.7	1.6	µg/kg dry	1		SW-846 8151A	3/23/16	3/27/16 8:14	JMB
2,4,5-T [2]	ND	2.7	1.2	µg/kg dry	1		SW-846 8151A	3/23/16	3/27/16 8:14	JMB
Dalapon [2]	ND	66	10	µg/kg dry	1	V-20	SW-846 8151A	3/23/16	3/27/16 8:14	JMB
Dicamba [2]	ND	2.7	1.3	µg/kg dry	1		SW-846 8151A	3/23/16	3/27/16 8:14	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2,4-Dichlorophenylacetic acid [1]	119	30-150		3/27/16 8:14
2,4-Dichlorophenylacetic acid [2]	113	30-150		3/27/16 8:14

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Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-6 (1-3)
Sampled: 3/19/2016 16:35
Sample ID: 16C0970-13
Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Gasoline Range Organics (GRO)	ND	1.1	1.1	mg/Kg dry	1		SW-846 8015C	3/24/16	3/24/16 17:34	EEH
Diesel Range Organics	1200	180	39	mg/Kg dry	20		SW-846 8015C	3/22/16	3/23/16 13:08	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1-Chloro-3-fluorobenzene	71.8	70-130		3/24/16 17:34
o-Terphenyl	*	40-140	S-01	3/23/16 13:08

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

Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-6 (1-3)
Sampled: 3/19/2016 16:35
Sample ID: 16C0970-13
Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	4100	2.7	2.3	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 15:03	AME
Antimony	ND	2.7	1.0	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 15:03	AME
Arsenic	0.78	2.7	0.50	mg/Kg dry	1	J	SW-846 6010C-D	3/22/16	3/25/16 15:03	AME
Barium	27	2.7	0.83	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 15:03	AME
Beryllium	0.36	0.27	0.22	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 15:03	AME
Cadmium	0.17	0.27	0.12	mg/Kg dry	1	J	SW-846 6010C-D	3/22/16	3/25/16 15:03	AME
Calcium	630	8.1	4.8	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/28/16 20:45	AME
Chromium	8.6	0.54	0.25	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 15:03	AME
Cobalt	3.3	2.7	0.83	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 15:03	AME
Copper	8.0	0.54	0.19	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 15:03	AME
Iron	5900	2.7	1.5	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 15:03	AME
Lead	2.4	0.81	0.29	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/28/16 20:45	AME
Magnesium	1800	8.1	4.1	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 15:03	AME
Manganese	220	0.54	0.38	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 15:03	AME
Mercury	0.21	0.027	0.0046	mg/Kg dry	1		SW-846 7471B	3/22/16	3/23/16 15:29	TGW
Nickel	8.1	0.54	0.16	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 15:03	AME
Potassium	440	110	15	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 15:03	AME
Selenium	ND	5.4		mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 15:03	AME
Silver	ND	0.54	0.43	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 15:03	AME
Sodium	62	110	38	mg/Kg dry	1	J	SW-846 6010C-D	3/22/16	3/25/16 15:03	AME
Thallium	ND	2.7	1.8	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 15:03	AME
Vanadium	8.7	1.1	0.31	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 15:03	AME
Zinc	12	1.1	0.88	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 15:03	AME

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

Project Location: 450Q
Sample Description:
Work Order: 16C0970

Date Received: 3/21/2016

Field Sample #: TRC-SB-6 (1-3)
Sampled: 3/19/2016 16:35

Sample ID: 16C0970-13

Sample Matrix: Soil

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

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	0.26	0.52	0.25	mg/Kg dry	1	J	SW-846 9014	3/24/16	3/25/16 10:50	VAK
Hexavalent Chromium	ND	0.17	0.12	mg/Kg dry	1		SW-846 7196A	3/25/16	3/28/16 11:20	LL
Ignitability	Absent			present/absent	1		SW-846 1030	3/23/16	3/23/16 19:35	DJM
pH @21°C	7.8			pH Units	1	H-03	SW-846 9045C	3/23/16	3/23/16 7:55	LL
Reactive Cyanide	ND	4.0	4.0	mg/Kg	1		SW-846 9014	3/24/16	3/25/16 16:30	AG
Reactive Sulfide	ND	20	20	mg/Kg	1		SW-846 9030A	3/24/16	3/25/16 16:30	AG
% Solids	94.1			% Wt	1		SM 2540G	3/22/16	3/23/16 8:20	MRL

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Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-6 (10-12)
Sampled: 3/19/2016 16:40
Sample ID: 16C0970-14
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.097	0.023	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 16:18	MFF
Benzene	ND	0.0019	0.00068	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 16:18	MFF
Bromochloromethane	ND	0.0019	0.0014	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 16:18	MFF
Bromodichloromethane	ND	0.0019	0.00058	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 16:18	MFF
Bromoform	ND	0.0019	0.0014	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 16:18	MFF
Bromomethane	ND	0.0097	0.0017	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 16:18	MFF
2-Butanone (MEK)	ND	0.039	0.017	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 16:18	MFF
Carbon Disulfide	ND	0.0058	0.0034	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 16:18	MFF
Carbon Tetrachloride	ND	0.0019	0.00078	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 16:18	MFF
Chlorobenzene	ND	0.0019	0.00068	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 16:18	MFF
Chlorodibromomethane	ND	0.00097	0.00068	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 16:18	MFF
Chloroethane	ND	0.019	0.0015	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 16:18	MFF
Chloroform	ND	0.0039	0.00068	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 16:18	MFF
Chloromethane	ND	0.0097	0.00087	mg/Kg dry	1	L-04, V-05	SW-846 8260C	3/23/16	3/23/16 16:18	MFF
Cyclohexane	ND	0.0019	0.00078	mg/Kg dry	1	V-05	SW-846 8260C	3/23/16	3/23/16 16:18	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0019	0.0011	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 16:18	MFF
1,2-Dibromoethane (EDB)	ND	0.00097	0.00097	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 16:18	MFF
1,2-Dichlorobenzene	ND	0.0019	0.00068	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 16:18	MFF
1,3-Dichlorobenzene	ND	0.0019	0.00068	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 16:18	MFF
1,4-Dichlorobenzene	ND	0.0019	0.00078	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 16:18	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.019	0.0013	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 16:18	MFF
1,1-Dichloroethane	ND	0.0019	0.00068	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 16:18	MFF
1,2-Dichloroethane	ND	0.0019	0.0013	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 16:18	MFF
1,1-Dichloroethylene	ND	0.0039	0.0011	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 16:18	MFF
cis-1,2-Dichloroethylene	ND	0.0019	0.00078	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 16:18	MFF
trans-1,2-Dichloroethylene	ND	0.0019	0.00087	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 16:18	MFF
1,2-Dichloropropane	ND	0.0019	0.0013	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 16:18	MFF
cis-1,3-Dichloropropene	ND	0.00097	0.00068	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 16:18	MFF
trans-1,3-Dichloropropene	ND	0.00097	0.00068	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 16:18	MFF
Ethylbenzene	ND	0.0019	0.00078	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 16:18	MFF
2-Hexanone (MBK)	ND	0.019	0.011	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 16:18	MFF
Isopropylbenzene (Cumene)	ND	0.0019	0.00068	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 16:18	MFF
Methyl Acetate	ND	0.0019	0.0016	mg/Kg dry	1	V-05	SW-846 8260C	3/23/16	3/23/16 16:18	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0039	0.00087	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 16:18	MFF
Methyl Cyclohexane	ND	0.0019	0.00097	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 16:18	MFF
Methylene Chloride	ND	0.019	0.0069	mg/Kg dry	1	V-05	SW-846 8260C	3/23/16	3/23/16 16:18	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.019	0.0074	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 16:18	MFF
Styrene	ND	0.0019	0.00058	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 16:18	MFF
1,1,2,2-Tetrachloroethane	ND	0.00097	0.00087	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 16:18	MFF
Tetrachloroethylene	ND	0.0019	0.0013	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 16:18	MFF
Toluene	ND	0.0019	0.00078	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 16:18	MFF
1,2,3-Trichlorobenzene	ND	0.0019	0.00058	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 16:18	MFF
1,2,4-Trichlorobenzene	ND	0.0019	0.00078	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 16:18	MFF
1,1,1-Trichloroethane	ND	0.0019	0.00097	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 16:18	MFF

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Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-6 (10-12)
Sampled: 3/19/2016 16:40
Sample ID: 16C0970-14
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,2-Trichloroethane	ND	0.0019	0.0012	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 16:18	MFF
Trichloroethylene	ND	0.0019	0.00097	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 16:18	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0097	0.0011	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 16:18	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0097	0.00087	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 16:18	MFF
Vinyl Chloride	ND	0.0097	0.0011	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 16:18	MFF
m+p Xylene	ND	0.0039	0.0017	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 16:18	MFF
o-Xylene	ND	0.0019	0.00068	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 16:18	MFF
Xylenes (total)	ND	0.0058		mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 16:18	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	107	70-130		3/23/16 16:18
Toluene-d8	93.1	70-130		3/23/16 16:18
4-Bromofluorobenzene	95.6	70-130		3/23/16 16:18

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Project Location: 450Q
Sample Description:
Work Order: 16C0970

Date Received: 3/21/2016

Field Sample #: TRC-SB-6 (10-12)
Sampled: 3/19/2016 16:40

Sample ID: 16C0970-14

Sample Matrix: Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg dry			1			SW-846 8260C	3/23/16	3/23/16 16:18	MFF

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Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-6 (10-12)
Sampled: 3/19/2016 16:40
Sample ID: 16C0970-14
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Atrazine	ND	0.71	0.60	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 18:31	CMR
Benzaldehyde	ND	0.36	0.34	mg/Kg dry	1	V-20	SW-846 8270D	3/23/16	3/26/16 18:31	CMR
Biphenyl	ND	0.71	0.45	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 18:31	CMR
Caprolactam	ND	0.36	0.27	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 18:31	CMR
Acenaphthene	ND	0.18	0.054	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 18:31	CMR
Acenaphthylene	ND	0.18	0.061	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 18:31	CMR
Acetophenone	ND	0.36	0.071	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 18:31	CMR
Anthracene	ND	0.18	0.052	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 18:31	CMR
Benzo(a)anthracene	ND	0.18	0.048	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 18:31	CMR
Benzo(a)pyrene	ND	0.18	0.056	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 18:31	CMR
Benzo(b)fluoranthene	ND	0.18	0.051	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 18:31	CMR
Benzo(g,h,i)perylene	ND	0.18	0.080	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 18:31	CMR
Benzo(k)fluoranthene	ND	0.18	0.056	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 18:31	CMR
Bis(2-chloroethoxy)methane	ND	0.36	0.069	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 18:31	CMR
Bis(2-chloroethyl)ether	ND	0.36	0.071	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 18:31	CMR
Bis(2-chloroisopropyl)ether	ND	0.36	0.078	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 18:31	CMR
Bis(2-Ethylhexyl)phthalate	0.15	0.36	0.14	mg/Kg dry	1	J	SW-846 8270D	3/23/16	3/26/16 18:31	CMR
4-Bromophenylphenylether	ND	0.36	0.061	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 18:31	CMR
Butylbenzylphthalate	ND	0.36	0.086	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 18:31	CMR
Carbazole	ND	0.18	0.047	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 18:31	CMR
4-Chloroaniline	ND	0.70	0.083	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 18:31	CMR
4-Chloro-3-methylphenol	ND	0.70	0.078	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 18:31	CMR
2-Chloronaphthalene	ND	0.36	0.068	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 18:31	CMR
2-Chlorophenol	ND	0.36	0.065	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 18:31	CMR
4-Chlorophenylphenylether	ND	0.36	0.061	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 18:31	CMR
Chrysene	ND	0.18	0.056	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 18:31	CMR
Dibenz(a,h)anthracene	ND	0.18	0.11	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 18:31	CMR
Dibenzofuran	ND	0.36	0.063	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 18:31	CMR
Di-n-butylphthalate	ND	0.36	0.079	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 18:31	CMR
3,3-Dichlorobenzidine	ND	0.18	0.055	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 18:31	CMR
2,4-Dichlorophenol	ND	0.36	0.062	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 18:31	CMR
Diethylphthalate	ND	0.36	0.065	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 18:31	CMR
2,4-Dimethylphenol	ND	0.36	0.067	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 18:31	CMR
Dimethylphthalate	ND	0.36	0.064	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 18:31	CMR
4,6-Dinitro-2-methylphenol	ND	0.36	0.34	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 18:31	CMR
2,4-Dinitrophenol	ND	0.70	0.21	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 18:31	CMR
2,4-Dinitrotoluene	ND	0.36	0.058	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 18:31	CMR
2,6-Dinitrotoluene	ND	0.36	0.064	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 18:31	CMR
Di-n-octylphthalate	ND	0.36	0.19	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 18:31	CMR
Fluoranthene	0.063	0.18	0.060	mg/Kg dry	1	J	SW-846 8270D	3/23/16	3/26/16 18:31	CMR
Fluorene	ND	0.18	0.058	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 18:31	CMR
Hexachlorobenzene	ND	0.36	0.064	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 18:31	CMR
Hexachlorobutadiene	ND	0.36	0.064	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 18:31	CMR
Hexachlorocyclopentadiene	ND	0.36	0.077	mg/Kg dry	1	V-05	SW-846 8270D	3/23/16	3/26/16 18:31	CMR

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Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-6 (10-12)
Sampled: 3/19/2016 16:40
Sample ID: 16C0970-14
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachloroethane	ND	0.36	0.072	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 18:31	CMR
Indeno(1,2,3-cd)pyrene	ND	0.18	0.13	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 18:31	CMR
Isophorone	ND	0.36	0.070	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 18:31	CMR
2-Methylnaphthalene	ND	0.18	0.063	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 18:31	CMR
2-Methylphenol	ND	0.36	0.090	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 18:31	CMR
3/4-Methylphenol	ND	0.36	0.11	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 18:31	CMR
Naphthalene	ND	0.18	0.092	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 18:31	CMR
2-Nitroaniline	ND	0.36	0.061	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 18:31	CMR
3-Nitroaniline	ND	0.36	0.052	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 18:31	CMR
4-Nitroaniline	ND	0.36	0.061	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 18:31	CMR
Nitrobenzene	ND	0.36	0.068	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 18:31	CMR
2-Nitrophenol	ND	0.36	0.096	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 18:31	CMR
4-Nitrophenol	ND	0.70	0.079	mg/Kg dry	1	V-20	SW-846 8270D	3/23/16	3/26/16 18:31	CMR
N-Nitrosodiphenylamine	ND	0.36	0.074	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 18:31	CMR
N-Nitrosodi-n-propylamine	ND	0.36	0.074	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 18:31	CMR
Pentachlorophenol	ND	0.36	0.087	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 18:31	CMR
Phenanthrene	ND	0.18	0.094	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 18:31	CMR
Phenol	ND	0.36	0.062	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 18:31	CMR
Pyrene	0.062	0.18	0.060	mg/Kg dry	1	J	SW-846 8270D	3/23/16	3/26/16 18:31	CMR
1,2,4,5-Tetrachlorobenzene	ND	0.36	0.065	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 18:31	CMR
2,4,5-Trichlorophenol	ND	0.36	0.082	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 18:31	CMR
2,4,6-Trichlorophenol	ND	0.36	0.061	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 18:31	CMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	70.9	30-130		3/26/16 18:31
Phenol-d6	76.8	30-130		3/26/16 18:31
Nitrobenzene-d5	81.9	30-130		3/26/16 18:31
2-Fluorobiphenyl	81.1	30-130		3/26/16 18:31
2,4,6-Tribromophenol	73.2	30-130		3/26/16 18:31
p-Terphenyl-d14	92.8	30-130		3/26/16 18:31

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

Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-6 (10-12)
Sampled: 3/19/2016 16:40
Sample ID: 16C0970-14
Sample Matrix: Soil

Tentatively Identified Compounds - SV Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg dry			1			SW-846 8270D	3/23/16	3/26/16 18:31	BGL

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Date Received: 3/21/2016
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Sampled: 3/19/2016 16:40
Sample ID: 16C0970-14
Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-Chlordane [1]	ND	0.0053	0.00030	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 9:39	PJG
gamma-Chlordane [1]	ND	0.0053	0.00030	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 9:39	PJG
Alachlor [1]	ND	0.021	0.0012	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 9:39	PJG
Aldrin [1]	ND	0.0053	0.00032	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 9:39	PJG
alpha-BHC [1]	ND	0.0053	0.00043	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 9:39	PJG
beta-BHC [1]	0.0010	0.0053	0.00053	mg/Kg dry	1	J	SW-846 8081B	3/22/16	3/25/16 9:39	PJG
delta-BHC [1]	ND	0.0053	0.00043	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 9:39	PJG
gamma-BHC (Lindane) [1]	ND	0.0021	0.00053	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 9:39	PJG
Chlordane [1]	ND	0.021	0.0062	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 9:39	PJG
4,4'-DDD [1]	0.0014	0.0043	0.00043	mg/Kg dry	1	J	SW-846 8081B	3/22/16	3/25/16 9:39	PJG
4,4'-DDE [1]	ND	0.0043	0.00032	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 9:39	PJG
4,4'-DDT [1]	ND	0.0043	0.00043	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 9:39	PJG
Dieldrin [1]	ND	0.0043	0.00032	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 9:39	PJG
Endosulfan I [1]	ND	0.0053	0.00043	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 9:39	PJG
Endosulfan II [1]	ND	0.0085	0.00032	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 9:39	PJG
Endosulfan sulfate [1]	ND	0.0085	0.0014	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 9:39	PJG
Endrin [1]	ND	0.0085	0.00032	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 9:39	PJG
Endrin aldehyde [1]	ND	0.0085	0.0013	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 9:39	PJG
Endrin ketone [1]	ND	0.0085	0.00043	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 9:39	PJG
Heptachlor [1]	ND	0.0053	0.00053	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 9:39	PJG
Heptachlor epoxide [1]	ND	0.0053	0.00043	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 9:39	PJG
Hexachlorobenzene [2]	0.00091	0.0064	0.00074	mg/Kg dry	1	J, P-08	SW-846 8081B	3/22/16	3/25/16 9:39	PJG
Methoxychlor [1]	ND	0.053	0.00064	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 9:39	PJG
Toxaphene [1]	ND	0.11	0.046	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 9:39	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	91.7	30-150		3/25/16 9:39
Decachlorobiphenyl [2]	109	30-150		3/25/16 9:39
Tetrachloro-m-xylene [1]	86.3	30-150		3/25/16 9:39
Tetrachloro-m-xylene [2]	81.7	30-150		3/25/16 9:39

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Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-6 (10-12)
Sampled: 3/19/2016 16:40
Sample ID: 16C0970-14
Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	0.064	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 20:57	BJH
Aroclor-1221 [1]	ND	0.11	0.069	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 20:57	BJH
Aroclor-1232 [1]	ND	0.11	0.048	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 20:57	BJH
Aroclor-1242 [1]	ND	0.11	0.053	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 20:57	BJH
Aroclor-1248 [1]	ND	0.11	0.064	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 20:57	BJH
Aroclor-1254 [1]	ND	0.11	0.069	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 20:57	BJH
Aroclor-1260 [1]	ND	0.11	0.074	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 20:57	BJH
Aroclor-1262 [1]	ND	0.11	0.053	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 20:57	BJH
Aroclor-1268 [1]	ND	0.11	0.043	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 20:57	BJH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	116	30-150		3/24/16 20:57
Decachlorobiphenyl [2]	127	30-150		3/24/16 20:57
Tetrachloro-m-xylene [1]	106	30-150		3/24/16 20:57
Tetrachloro-m-xylene [2]	118	30-150		3/24/16 20:57

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Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-6 (10-12)
Sampled: 3/19/2016 16:40
Sample ID: 16C0970-14
Sample Matrix: Soil

Herbicides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-D [2]	ND	26	8.8	µg/kg dry	1		SW-846 8151A	3/23/16	3/27/16 8:53	JMB
2,4,5-TP (Silvex) [2]	ND	2.6	1.6	µg/kg dry	1		SW-846 8151A	3/23/16	3/27/16 8:53	JMB
2,4,5-T [2]	ND	2.6	1.2	µg/kg dry	1		SW-846 8151A	3/23/16	3/27/16 8:53	JMB
Dalapon [2]	ND	66	10	µg/kg dry	1	V-20	SW-846 8151A	3/23/16	3/27/16 8:53	JMB
Dicamba [2]	ND	2.6	1.3	µg/kg dry	1		SW-846 8151A	3/23/16	3/27/16 8:53	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2,4-Dichlorophenylacetic acid [1]	109	30-150		3/27/16 8:53
2,4-Dichlorophenylacetic acid [2]	107	30-150		3/27/16 8:53

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Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-6 (10-12)
Sampled: 3/19/2016 16:40
Sample ID: 16C0970-14
Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	9900	2.6	2.2	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 15:09	AME
Antimony	ND	2.6	0.96	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 15:09	AME
Arsenic	8.5	2.6	0.48	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 15:09	AME
Barium	320	2.6	0.80	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 15:09	AME
Beryllium	0.91	0.26	0.21	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 15:09	AME
Cadmium	0.79	0.26	0.12	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 15:09	AME
Calcium	1900	7.7	4.6	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/28/16 20:50	AME
Chromium	33	0.52	0.24	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 15:09	AME
Cobalt	6.3	2.6	0.80	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 15:09	AME
Copper	83	0.52	0.19	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 15:09	AME
Iron	14000	2.6	1.4	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 15:09	AME
Lead	830	0.77	0.27	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/28/16 20:50	AME
Magnesium	2400	7.7	3.9	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 15:09	AME
Manganese	320	0.52	0.36	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 15:09	AME
Mercury	0.0062	0.027	0.0046	mg/Kg dry	1	J	SW-846 7471B	3/22/16	3/23/16 15:30	TGW
Nickel	12	0.52	0.15	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 15:09	AME
Potassium	680	100	14	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 15:09	AME
Selenium	ND	5.2		mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 15:09	AME
Silver	ND	0.52	0.41	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 15:09	AME
Sodium	120	100	36	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 15:09	AME
Thallium	ND	2.6	1.7	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 15:09	AME
Vanadium	25	1.0	0.30	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 15:09	AME
Zinc	260	1.0	0.85	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 15:09	AME

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Project Location: 450Q
Sample Description:
Work Order: 16C0970

Date Received: 3/21/2016

Field Sample #: TRC-SB-6 (10-12)
Sampled: 3/19/2016 16:40

Sample ID: 16C0970-14

Sample Matrix: Soil

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

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	94.1			% Wt	1		SM 2540G	3/22/16	3/23/16 8:20	MRL

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Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-7 (1-3)
Sampled: 3/19/2016 14:55
Sample ID: 16C0970-15
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.097	0.023	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 19:58	MFF
Benzene	ND	0.0019	0.00068	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 19:58	MFF
Bromochloromethane	ND	0.0019	0.0014	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 19:58	MFF
Bromodichloromethane	ND	0.0019	0.00058	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 19:58	MFF
Bromoform	ND	0.0019	0.0014	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 19:58	MFF
Bromomethane	ND	0.0097	0.0017	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 19:58	MFF
2-Butanone (MEK)	ND	0.039	0.017	mg/Kg dry	1	V-05	SW-846 8260C	3/23/16	3/23/16 19:58	MFF
Carbon Disulfide	ND	0.0058	0.0034	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 19:58	MFF
Carbon Tetrachloride	ND	0.0019	0.00078	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 19:58	MFF
Chlorobenzene	ND	0.0019	0.00068	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 19:58	MFF
Chlorodibromomethane	ND	0.00097	0.00068	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 19:58	MFF
Chloroethane	ND	0.019	0.0015	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 19:58	MFF
Chloroform	ND	0.0039	0.00068	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 19:58	MFF
Chloromethane	ND	0.0097	0.00088	mg/Kg dry	1	L-04, V-05	SW-846 8260C	3/23/16	3/23/16 19:58	MFF
Cyclohexane	ND	0.0019	0.00078	mg/Kg dry	1	V-05	SW-846 8260C	3/23/16	3/23/16 19:58	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0019	0.0011	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 19:58	MFF
1,2-Dibromoethane (EDB)	ND	0.00097	0.00097	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 19:58	MFF
1,2-Dichlorobenzene	ND	0.0019	0.00068	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 19:58	MFF
1,3-Dichlorobenzene	ND	0.0019	0.00068	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 19:58	MFF
1,4-Dichlorobenzene	ND	0.0019	0.00078	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 19:58	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.019	0.0013	mg/Kg dry	1	R-05	SW-846 8260C	3/23/16	3/23/16 19:58	MFF
1,1-Dichloroethane	ND	0.0019	0.00068	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 19:58	MFF
1,2-Dichloroethane	ND	0.0019	0.0013	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 19:58	MFF
1,1-Dichloroethylene	ND	0.0039	0.0011	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 19:58	MFF
cis-1,2-Dichloroethylene	ND	0.0019	0.00078	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 19:58	MFF
trans-1,2-Dichloroethylene	ND	0.0019	0.00088	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 19:58	MFF
1,2-Dichloropropane	ND	0.0019	0.0013	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 19:58	MFF
cis-1,3-Dichloropropene	ND	0.00097	0.00068	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 19:58	MFF
trans-1,3-Dichloropropene	ND	0.00097	0.00068	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 19:58	MFF
Ethylbenzene	ND	0.0019	0.00078	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 19:58	MFF
2-Hexanone (MBK)	ND	0.019	0.011	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 19:58	MFF
Isopropylbenzene (Cumene)	ND	0.0019	0.00068	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 19:58	MFF
Methyl Acetate	ND	0.0019	0.0016	mg/Kg dry	1	V-05	SW-846 8260C	3/23/16	3/23/16 19:58	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0039	0.00088	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 19:58	MFF
Methyl Cyclohexane	ND	0.0019	0.00097	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 19:58	MFF
Methylene Chloride	ND	0.019	0.0069	mg/Kg dry	1	V-05	SW-846 8260C	3/23/16	3/23/16 19:58	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.019	0.0074	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 19:58	MFF
Styrene	ND	0.0019	0.00058	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 19:58	MFF
1,1,2,2-Tetrachloroethane	ND	0.00097	0.00088	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 19:58	MFF
Tetrachloroethylene	ND	0.0019	0.0013	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 19:58	MFF
Toluene	ND	0.0019	0.00078	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 19:58	MFF
1,2,3-Trichlorobenzene	ND	0.0019	0.00058	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 19:58	MFF
1,2,4-Trichlorobenzene	ND	0.0019	0.00078	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 19:58	MFF
1,1,1-Trichloroethane	ND	0.0019	0.00097	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 19:58	MFF

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

Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-7 (1-3)
Sampled: 3/19/2016 14:55
Sample ID: 16C0970-15
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,2-Trichloroethane	ND	0.0019	0.0012	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 19:58	MFF
Trichloroethylene	ND	0.0019	0.00097	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 19:58	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0097	0.0011	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 19:58	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0097	0.00088	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 19:58	MFF
Vinyl Chloride	ND	0.0097	0.0011	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 19:58	MFF
m+p Xylene	ND	0.0039	0.0017	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 19:58	MFF
o-Xylene	ND	0.0019	0.00068	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 19:58	MFF
Xylenes (total)	ND	0.0058		mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 19:58	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	94.1	70-130		3/23/16 19:58
Toluene-d8	90.6	70-130		3/23/16 19:58
4-Bromofluorobenzene	96.0	70-130		3/23/16 19:58

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Project Location: 450Q
Sample Description:
Work Order: 16C0970

Date Received: 3/21/2016

Field Sample #: TRC-SB-7 (1-3)
Sampled: 3/19/2016 14:55

Sample ID: 16C0970-15

Sample Matrix: Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg dry			1			SW-846 8260C	3/23/16	3/23/16 19:58	MFF

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

Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-7 (1-3)
Sampled: 3/19/2016 14:55
Sample ID: 16C0970-15
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Atrazine	ND	0.75	0.63	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 18:55	CMR
Benzaldehyde	ND	0.38	0.36	mg/Kg dry	1	V-20	SW-846 8270D	3/23/16	3/26/16 18:55	CMR
Biphenyl	ND	0.75	0.48	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 18:55	CMR
Caprolactam	ND	0.38	0.29	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 18:55	CMR
Acenaphthene	0.92	0.19	0.057	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 18:55	CMR
Acenaphthylene	0.19	0.19	0.064	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 18:55	CMR
Acetophenone	ND	0.38	0.075	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 18:55	CMR
Anthracene	2.5	0.19	0.055	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 18:55	CMR
Benzo(a)anthracene	5.7	0.95	0.25	mg/Kg dry	5		SW-846 8270D	3/23/16	3/28/16 10:32	BGL
Benzo(a)pyrene	4.9	0.95	0.30	mg/Kg dry	5		SW-846 8270D	3/23/16	3/28/16 10:32	BGL
Benzo(b)fluoranthene	6.0	0.95	0.27	mg/Kg dry	5		SW-846 8270D	3/23/16	3/28/16 10:32	BGL
Benzo(g,h,i)perylene	3.2	0.19	0.084	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 18:55	CMR
Benzo(k)fluoranthene	2.7	0.19	0.059	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 18:55	CMR
Bis(2-chloroethoxy)methane	ND	0.38	0.073	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 18:55	CMR
Bis(2-chloroethyl)ether	ND	0.38	0.075	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 18:55	CMR
Bis(2-chloroisopropyl)ether	ND	0.38	0.082	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 18:55	CMR
Bis(2-Ethylhexyl)phthalate	ND	0.38	0.15	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 18:55	CMR
4-Bromophenylphenylether	ND	0.38	0.064	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 18:55	CMR
Butylbenzylphthalate	ND	0.38	0.091	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 18:55	CMR
Carbazole	0.83	0.19	0.049	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 18:55	CMR
4-Chloroaniline	ND	0.74	0.087	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 18:55	CMR
4-Chloro-3-methylphenol	ND	0.74	0.082	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 18:55	CMR
2-Chloronaphthalene	ND	0.38	0.072	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 18:55	CMR
2-Chlorophenol	ND	0.38	0.068	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 18:55	CMR
4-Chlorophenylphenylether	ND	0.38	0.064	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 18:55	CMR
Chrysene	5.3	0.95	0.30	mg/Kg dry	5		SW-846 8270D	3/23/16	3/28/16 10:32	BGL
Dibenz(a,h)anthracene	0.69	0.19	0.12	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 18:55	CMR
Dibenzofuran	0.64	0.38	0.066	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 18:55	CMR
Di-n-butylphthalate	ND	0.38	0.083	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 18:55	CMR
3,3-Dichlorobenzidine	ND	0.19	0.058	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 18:55	CMR
2,4-Dichlorophenol	ND	0.38	0.065	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 18:55	CMR
Diethylphthalate	ND	0.38	0.068	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 18:55	CMR
2,4-Dimethylphenol	ND	0.38	0.070	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 18:55	CMR
Dimethylphthalate	ND	0.38	0.067	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 18:55	CMR
4,6-Dinitro-2-methylphenol	ND	0.38	0.36	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 18:55	CMR
2,4-Dinitrophenol	ND	0.74	0.22	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 18:55	CMR
2,4-Dinitrotoluene	ND	0.38	0.062	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 18:55	CMR
2,6-Dinitrotoluene	ND	0.38	0.067	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 18:55	CMR
Di-n-octylphthalate	ND	0.38	0.20	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 18:55	CMR
Fluoranthene	13	0.95	0.31	mg/Kg dry	5		SW-846 8270D	3/23/16	3/28/16 10:32	BGL
Fluorene	0.92	0.19	0.062	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 18:55	CMR
Hexachlorobenzene	ND	0.38	0.067	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 18:55	CMR
Hexachlorobutadiene	ND	0.38	0.067	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 18:55	CMR
Hexachlorocyclopentadiene	ND	0.38	0.081	mg/Kg dry	1	V-05	SW-846 8270D	3/23/16	3/26/16 18:55	CMR

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

Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-7 (1-3)
Sampled: 3/19/2016 14:55
Sample ID: 16C0970-15
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachloroethane	ND	0.38	0.076	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 18:55	CMR
Indeno(1,2,3-cd)pyrene	3.2	0.19	0.14	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 18:55	CMR
Isophorone	ND	0.38	0.074	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 18:55	CMR
2-Methylnaphthalene	0.32	0.19	0.066	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 18:55	CMR
2-Methylphenol	ND	0.38	0.095	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 18:55	CMR
3/4-Methylphenol	ND	0.38	0.12	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 18:55	CMR
Naphthalene	0.50	0.19	0.097	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 18:55	CMR
2-Nitroaniline	ND	0.38	0.064	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 18:55	CMR
3-Nitroaniline	ND	0.38	0.055	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 18:55	CMR
4-Nitroaniline	ND	0.38	0.064	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 18:55	CMR
4-Nitroaniline	ND	1.9	0.32	mg/Kg dry	5		SW-846 8270D	3/23/16	3/28/16 10:32	BGL
Nitrobenzene	ND	0.38	0.072	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 18:55	CMR
2-Nitrophenol	ND	0.38	0.10	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 18:55	CMR
4-Nitrophenol	ND	0.74	0.083	mg/Kg dry	1	V-20	SW-846 8270D	3/23/16	3/26/16 18:55	CMR
N-Nitrosodiphenylamine	ND	0.38	0.078	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 18:55	CMR
N-Nitrosodi-n-propylamine	ND	0.38	0.078	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 18:55	CMR
Pentachlorophenol	ND	0.38	0.092	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 18:55	CMR
Phenanthrene	12	0.95	0.49	mg/Kg dry	5		SW-846 8270D	3/23/16	3/28/16 10:32	BGL
Phenol	ND	0.38	0.065	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 18:55	CMR
Pyrene	13	0.95	0.31	mg/Kg dry	5		SW-846 8270D	3/23/16	3/28/16 10:32	BGL
1,2,4,5-Tetrachlorobenzene	ND	0.38	0.068	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 18:55	CMR
2,4,5-Trichlorophenol	ND	0.38	0.086	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 18:55	CMR
2,4,6-Trichlorophenol	ND	0.38	0.064	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 18:55	CMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	59.8	30-130		3/26/16 18:55
Phenol-d6	66.9	30-130		3/26/16 18:55
Nitrobenzene-d5	72.2	30-130		3/26/16 18:55
2-Fluorobiphenyl	74.8	30-130		3/26/16 18:55
2,4,6-Tribromophenol	67.5	30-130		3/26/16 18:55
p-Terphenyl-d14	72.3	30-130		3/26/16 18:55

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

Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-7 (1-3)
Sampled: 3/19/2016 14:55
Sample ID: 16C0970-15
Sample Matrix: Soil

Tentatively Identified Compounds - SV Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
11H-Benzo[a]fluoren-11-one	0.22	mg/Kg dry	1112850	7.006	1	000479-79-8	94	SW-846 8270D	3/23/16	3/26/16 18:55	BGL
7H-Benz[de]anthracen-7-one	0.26	mg/Kg dry	1292200	6.808	1	000082-05-3	87	SW-846 8270D	3/23/16	3/26/16 18:55	BGL
Benz[a]anthracene, 7-methyl-	0.22	mg/Kg dry	1113420	7.617	1	002541-69-7	97	SW-846 8270D	3/23/16	3/26/16 18:55	BGL
Benzo[b]naphtho[2,1-d]thiop...	0.23	mg/Kg dry	1160680	6.901	1	000239-35-0	91	SW-846 8270D	3/23/16	3/26/16 18:55	BGL
Benzo[e]pyrene	0.99	mg/Kg dry	2388740	8.904	1	000192-97-2	96	SW-846 8270D	3/23/16	3/26/16 18:55	BGL
Phenanthrene, 1-methyl-	0.20	mg/Kg dry	2190580	5.59	1	000832-69-9	97	SW-846 8270D	3/23/16	3/26/16 18:55	BGL
Phenanthrene, 2-methyl-	0.17	mg/Kg dry	1917360	5.572	1	002531-84-2	98	SW-846 8270D	3/23/16	3/26/16 18:55	BGL
Pyrene, 1-methyl-	0.26	mg/Kg dry	1325320	6.386	1	002381-21-7	93	SW-846 8270D	3/23/16	3/26/16 18:55	BGL
Pyrene, 2-methyl-	0.31	mg/Kg dry	1546840	6.463	1	003442-78-2	94	SW-846 8270D	3/23/16	3/26/16 18:55	BGL

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

Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-7 (1-3)
Sampled: 3/19/2016 14:55
Sample ID: 16C0970-15
Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-Chlordane [1]	ND	0.0056	0.00031	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 10:02	PJG
gamma-Chlordane [1]	ND	0.0056	0.00031	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 10:02	PJG
Alachlor [1]	ND	0.022	0.0012	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 10:02	PJG
Aldrin [1]	ND	0.0056	0.00034	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 10:02	PJG
alpha-BHC [1]	ND	0.0056	0.00045	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 10:02	PJG
beta-BHC [2]	0.00089	0.0056	0.00056	mg/Kg dry	1	J, P-01	SW-846 8081B	3/22/16	3/25/16 10:02	PJG
delta-BHC [2]	ND	0.0056	0.00045	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 10:02	PJG
gamma-BHC (Lindane) [1]	ND	0.0022	0.00056	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 10:02	PJG
Chlordane [1]	ND	0.022	0.0065	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 10:02	PJG
4,4'-DDD [1]	0.037	0.0045	0.00045	mg/Kg dry	1	P-05, V-24	SW-846 8081B	3/22/16	3/25/16 10:02	PJG
4,4'-DDE [1]	ND	0.0045	0.00034	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 10:02	PJG
4,4'-DDT [1]	0.0080	0.0045	0.00045	mg/Kg dry	1	V-24, P-01	SW-846 8081B	3/22/16	3/25/16 10:02	PJG
Dieldrin [1]	0.00044	0.0045	0.00034	mg/Kg dry	1	J, P-08	SW-846 8081B	3/22/16	3/25/16 10:02	PJG
Endosulfan I [1]	ND	0.0056	0.00045	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 10:02	PJG
Endosulfan II [1]	0.0022	0.0090	0.00034	mg/Kg dry	1	J, P-08	SW-846 8081B	3/22/16	3/25/16 10:02	PJG
Endosulfan sulfate [1]	ND	0.0090	0.0015	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 10:02	PJG
Endrin [1]	ND	0.0090	0.00034	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 10:02	PJG
Endrin aldehyde [1]	0.011	0.0090	0.0013	mg/Kg dry	1	P-01, V-24	SW-846 8081B	3/22/16	3/25/16 10:02	PJG
Endrin ketone [1]	ND	0.0090	0.00045	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 10:02	PJG
Heptachlor [1]	ND	0.0056	0.00056	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 10:02	PJG
Heptachlor epoxide [1]	ND	0.0056	0.00045	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 10:02	PJG
Hexachlorobenzene [2]	ND	0.0067	0.00079	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 10:02	PJG
Methoxychlor [1]	ND	0.056	0.00067	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 10:02	PJG
Toxaphene [1]	ND	0.11	0.048	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 10:02	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	55.6	30-150		3/25/16 10:02
Decachlorobiphenyl [2]	96.1	30-150		3/25/16 10:02
Tetrachloro-m-xylene [1]	43.9	30-150		3/25/16 10:02
Tetrachloro-m-xylene [2]	43.3	30-150		3/25/16 10:02

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

Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-7 (1-3)
Sampled: 3/19/2016 14:55
Sample ID: 16C0970-15
Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	0.067	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 21:10	BJH
Aroclor-1221 [1]	ND	0.11	0.073	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 21:10	BJH
Aroclor-1232 [1]	ND	0.11	0.051	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 21:10	BJH
Aroclor-1242 [1]	ND	0.11	0.056	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 21:10	BJH
Aroclor-1248 [1]	ND	0.11	0.067	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 21:10	BJH
Aroclor-1254 [1]	ND	0.11	0.073	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 21:10	BJH
Aroclor-1260 [1]	ND	0.11	0.079	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 21:10	BJH
Aroclor-1262 [1]	ND	0.11	0.056	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 21:10	BJH
Aroclor-1268 [1]	ND	0.11	0.045	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 21:10	BJH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	87.0	30-150		3/24/16 21:10
Decachlorobiphenyl [2]	90.0	30-150		3/24/16 21:10
Tetrachloro-m-xylene [1]	86.7	30-150		3/24/16 21:10
Tetrachloro-m-xylene [2]	97.0	30-150		3/24/16 21:10

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Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-7 (1-3)
Sampled: 3/19/2016 14:55
Sample ID: 16C0970-15
Sample Matrix: Soil

Herbicides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-D [2]	ND	28	9.3	µg/kg dry	1		SW-846 8151A	3/23/16	3/27/16 9:32	JMB
2,4,5-TP (Silvex) [2]	ND	2.8	1.7	µg/kg dry	1		SW-846 8151A	3/23/16	3/27/16 9:32	JMB
2,4,5-T [2]	ND	2.8	1.2	µg/kg dry	1		SW-846 8151A	3/23/16	3/27/16 9:32	JMB
Dalapon [2]	ND	70	11	µg/kg dry	1	V-20	SW-846 8151A	3/23/16	3/27/16 9:32	JMB
Dicamba [2]	ND	2.8	1.4	µg/kg dry	1		SW-846 8151A	3/23/16	3/27/16 9:32	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2,4-Dichlorophenylacetic acid [1]	120	30-150		3/27/16 9:32
2,4-Dichlorophenylacetic acid [2]	124	30-150		3/27/16 9:32

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Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-7 (1-3)
Sampled: 3/19/2016 14:55
Sample ID: 16C0970-15
Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	3400	2.7	2.3	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 15:14	AME
Antimony	ND	2.7	1.0	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 15:14	AME
Arsenic	ND	2.7	0.50	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 15:14	AME
Barium	25	2.7	0.84	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 15:14	AME
Beryllium	0.37	0.27	0.22	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 15:14	AME
Cadmium	0.19	0.27	0.13	mg/Kg dry	1	J	SW-846 6010C-D	3/22/16	3/25/16 15:14	AME
Calcium	2300	8.2	4.9	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/28/16 20:55	AME
Chromium	12	0.54	0.26	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 15:14	AME
Cobalt	3.4	2.7	0.84	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 15:14	AME
Copper	7.4	0.54	0.20	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 15:14	AME
Iron	6300	2.7	1.5	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 15:14	AME
Lead	2.5	0.82	0.29	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/28/16 20:55	AME
Magnesium	2100	8.2	4.1	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 15:14	AME
Manganese	210	0.54	0.38	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 15:14	AME
Mercury	0.99	0.13	0.023	mg/Kg dry	5		SW-846 7471B	3/22/16	3/23/16 15:51	TGW
Nickel	7.1	0.54	0.16	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 15:14	AME
Potassium	500	110	15	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 15:14	AME
Selenium	ND	5.4		mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 15:14	AME
Silver	ND	0.54	0.43	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 15:14	AME
Sodium	68	110	38	mg/Kg dry	1	J	SW-846 6010C-D	3/22/16	3/25/16 15:14	AME
Thallium	ND	2.7	1.8	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 15:14	AME
Vanadium	11	1.1	0.32	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 15:14	AME
Zinc	12	1.1	0.89	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 15:14	AME

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Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-7 (1-3)
Sampled: 3/19/2016 14:55
Sample ID: 16C0970-15
Sample Matrix: Soil

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

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	89.1			% Wt	1		SM 2540G	3/22/16	3/23/16 8:20	MRL

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Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-7 (10-12)
Sampled: 3/19/2016 15:00
Sample ID: 16C0970-16
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.12	0.028	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 20:25	MFF
Benzene	ND	0.0024	0.00084	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 20:25	MFF
Bromochloromethane	ND	0.0024	0.0017	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 20:25	MFF
Bromodichloromethane	ND	0.0024	0.00072	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 20:25	MFF
Bromoform	ND	0.0024	0.0017	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 20:25	MFF
Bromomethane	ND	0.012	0.0020	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 20:25	MFF
2-Butanone (MEK)	ND	0.048	0.021	mg/Kg dry	1	V-05	SW-846 8260C	3/23/16	3/23/16 20:25	MFF
Carbon Disulfide	ND	0.0072	0.0042	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 20:25	MFF
Carbon Tetrachloride	ND	0.0024	0.00096	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 20:25	MFF
Chlorobenzene	ND	0.0024	0.00084	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 20:25	MFF
Chlorodibromomethane	ND	0.0012	0.00084	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 20:25	MFF
Chloroethane	ND	0.024	0.0018	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 20:25	MFF
Chloroform	ND	0.0048	0.00084	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 20:25	MFF
Chloromethane	ND	0.012	0.0011	mg/Kg dry	1	L-04, V-05	SW-846 8260C	3/23/16	3/23/16 20:25	MFF
Cyclohexane	ND	0.0024	0.00096	mg/Kg dry	1	V-05	SW-846 8260C	3/23/16	3/23/16 20:25	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0024	0.0013	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 20:25	MFF
1,2-Dibromoethane (EDB)	ND	0.0012	0.0012	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 20:25	MFF
1,2-Dichlorobenzene	ND	0.0024	0.00084	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 20:25	MFF
1,3-Dichlorobenzene	ND	0.0024	0.00084	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 20:25	MFF
1,4-Dichlorobenzene	ND	0.0024	0.00096	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 20:25	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.024	0.0016	mg/Kg dry	1	R-05	SW-846 8260C	3/23/16	3/23/16 20:25	MFF
1,1-Dichloroethane	ND	0.0024	0.00084	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 20:25	MFF
1,2-Dichloroethane	ND	0.0024	0.0016	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 20:25	MFF
1,1-Dichloroethylene	ND	0.0048	0.0013	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 20:25	MFF
cis-1,2-Dichloroethylene	ND	0.0024	0.00096	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 20:25	MFF
trans-1,2-Dichloroethylene	ND	0.0024	0.0011	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 20:25	MFF
1,2-Dichloropropane	ND	0.0024	0.0016	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 20:25	MFF
cis-1,3-Dichloropropene	ND	0.0012	0.00084	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 20:25	MFF
trans-1,3-Dichloropropene	ND	0.0012	0.00084	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 20:25	MFF
Ethylbenzene	ND	0.0024	0.00096	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 20:25	MFF
2-Hexanone (MBK)	ND	0.024	0.013	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 20:25	MFF
Isopropylbenzene (Cumene)	ND	0.0024	0.00084	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 20:25	MFF
Methyl Acetate	ND	0.0024	0.0019	mg/Kg dry	1	V-05	SW-846 8260C	3/23/16	3/23/16 20:25	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0048	0.0011	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 20:25	MFF
Methyl Cyclohexane	ND	0.0024	0.0012	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 20:25	MFF
Methylene Chloride	ND	0.024	0.0085	mg/Kg dry	1	V-05	SW-846 8260C	3/23/16	3/23/16 20:25	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.024	0.0091	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 20:25	MFF
Styrene	ND	0.0024	0.00072	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 20:25	MFF
1,1,2,2-Tetrachloroethane	ND	0.0012	0.0011	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 20:25	MFF
Tetrachloroethylene	ND	0.0024	0.0016	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 20:25	MFF
Toluene	ND	0.0024	0.00096	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 20:25	MFF
1,2,3-Trichlorobenzene	ND	0.0024	0.00072	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 20:25	MFF
1,2,4-Trichlorobenzene	ND	0.0024	0.00096	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 20:25	MFF
1,1,1-Trichloroethane	ND	0.0024	0.0012	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 20:25	MFF

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Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-7 (10-12)
Sampled: 3/19/2016 15:00
Sample ID: 16C0970-16
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,2-Trichloroethane	ND	0.0024	0.0014	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 20:25	MFF
Trichloroethylene	ND	0.0024	0.0012	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 20:25	MFF
Trichlorofluoromethane (Freon 11)	ND	0.012	0.0013	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 20:25	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.012	0.0011	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 20:25	MFF
Vinyl Chloride	ND	0.012	0.0013	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 20:25	MFF
m+p Xylene	ND	0.0048	0.0020	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 20:25	MFF
o-Xylene	ND	0.0024	0.00084	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 20:25	MFF
Xylenes (total)	ND	0.0072		mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 20:25	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	94.1	70-130		3/23/16 20:25
Toluene-d8	92.6	70-130		3/23/16 20:25
4-Bromofluorobenzene	97.7	70-130		3/23/16 20:25

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Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-7 (10-12)
Sampled: 3/19/2016 15:00
Sample ID: 16C0970-16
Sample Matrix: Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg dry			1			SW-846 8260C	3/23/16	3/23/16 20:25	MFF

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Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-7 (10-12)
Sampled: 3/19/2016 15:00
Sample ID: 16C0970-16
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Atrazine	ND	0.73	0.62	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:27	CMR
Benzaldehyde	ND	0.37	0.35	mg/Kg dry	1	V-20	SW-846 8270D	3/23/16	3/26/16 16:27	CMR
Biphenyl	ND	0.73	0.46	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:27	CMR
Caprolactam	ND	0.37	0.28	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:27	CMR
Acenaphthene	ND	0.19	0.056	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:27	CMR
Acenaphthylene	ND	0.19	0.062	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:27	CMR
Acetophenone	ND	0.37	0.073	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:27	CMR
Anthracene	ND	0.19	0.053	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:27	CMR
Benzo(a)anthracene	ND	0.19	0.049	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:27	CMR
Benzo(a)pyrene	ND	0.19	0.058	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:27	CMR
Benzo(b)fluoranthene	ND	0.19	0.052	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:27	CMR
Benzo(g,h,i)perylene	ND	0.19	0.082	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:27	CMR
Benzo(k)fluoranthene	ND	0.19	0.058	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:27	CMR
Bis(2-chloroethoxy)methane	ND	0.37	0.071	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:27	CMR
Bis(2-chloroethyl)ether	ND	0.37	0.073	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:27	CMR
Bis(2-chloroisopropyl)ether	ND	0.37	0.080	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:27	CMR
Bis(2-Ethylhexyl)phthalate	0.17	0.37	0.14	mg/Kg dry	1	J	SW-846 8270D	3/23/16	3/26/16 16:27	CMR
4-Bromophenylphenylether	ND	0.37	0.062	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:27	CMR
Butylbenzylphthalate	ND	0.37	0.088	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:27	CMR
Carbazole	ND	0.19	0.048	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:27	CMR
4-Chloroaniline	ND	0.72	0.085	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:27	CMR
4-Chloro-3-methylphenol	ND	0.72	0.080	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:27	CMR
2-Chloronaphthalene	ND	0.37	0.070	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:27	CMR
2-Chlorophenol	ND	0.37	0.066	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:27	CMR
4-Chlorophenylphenylether	ND	0.37	0.062	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:27	CMR
Chrysene	ND	0.19	0.058	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:27	CMR
Dibenz(a,h)anthracene	ND	0.19	0.11	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:27	CMR
Dibenzofuran	ND	0.37	0.064	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:27	CMR
Di-n-butylphthalate	ND	0.37	0.081	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:27	CMR
3,3-Dichlorobenzidine	ND	0.19	0.057	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:27	CMR
2,4-Dichlorophenol	ND	0.37	0.063	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:27	CMR
Diethylphthalate	ND	0.37	0.066	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:27	CMR
2,4-Dimethylphenol	ND	0.37	0.069	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:27	CMR
Dimethylphthalate	ND	0.37	0.065	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:27	CMR
4,6-Dinitro-2-methylphenol	ND	0.37	0.35	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:27	CMR
2,4-Dinitrophenol	ND	0.72	0.21	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:27	CMR
2,4-Dinitrotoluene	ND	0.37	0.060	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:27	CMR
2,6-Dinitrotoluene	ND	0.37	0.065	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:27	CMR
Di-n-octylphthalate	ND	0.37	0.19	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:27	CMR
Fluoranthene	ND	0.19	0.061	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:27	CMR
Fluorene	ND	0.19	0.060	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:27	CMR
Hexachlorobenzene	ND	0.37	0.065	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:27	CMR
Hexachlorobutadiene	ND	0.37	0.065	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:27	CMR
Hexachlorocyclopentadiene	ND	0.37	0.078	mg/Kg dry	1	V-05	SW-846 8270D	3/23/16	3/26/16 16:27	CMR

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Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-7 (10-12)
Sampled: 3/19/2016 15:00
Sample ID: 16C0970-16
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachloroethane	ND	0.37	0.074	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:27	CMR
Indeno(1,2,3-cd)pyrene	ND	0.19	0.13	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:27	CMR
Isophorone	ND	0.37	0.072	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:27	CMR
2-Methylnaphthalene	ND	0.19	0.064	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:27	CMR
2-Methylphenol	ND	0.37	0.093	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:27	CMR
3/4-Methylphenol	ND	0.37	0.12	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:27	CMR
Naphthalene	ND	0.19	0.095	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:27	CMR
2-Nitroaniline	ND	0.37	0.062	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:27	CMR
3-Nitroaniline	ND	0.37	0.053	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:27	CMR
4-Nitroaniline	ND	0.37	0.062	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:27	CMR
Nitrobenzene	ND	0.37	0.070	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:27	CMR
2-Nitrophenol	ND	0.37	0.098	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:27	CMR
4-Nitrophenol	ND	0.72	0.081	mg/Kg dry	1	V-20	SW-846 8270D	3/23/16	3/26/16 16:27	CMR
N-Nitrosodiphenylamine	ND	0.37	0.076	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:27	CMR
N-Nitrosodi-n-propylamine	ND	0.37	0.076	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:27	CMR
Pentachlorophenol	ND	0.37	0.089	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:27	CMR
Phenanthrene	ND	0.19	0.096	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:27	CMR
Phenol	ND	0.37	0.063	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:27	CMR
Pyrene	ND	0.19	0.061	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:27	CMR
1,2,4,5-Tetrachlorobenzene	ND	0.37	0.066	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:27	CMR
2,4,5-Trichlorophenol	ND	0.37	0.084	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:27	CMR
2,4,6-Trichlorophenol	ND	0.37	0.062	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:27	CMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	50.0	30-130		3/26/16 16:27
Phenol-d6	54.8	30-130		3/26/16 16:27
Nitrobenzene-d5	58.0	30-130		3/26/16 16:27
2-Fluorobiphenyl	57.5	30-130		3/26/16 16:27
2,4,6-Tribromophenol	61.6	30-130		3/26/16 16:27
p-Terphenyl-d14	66.9	30-130		3/26/16 16:27

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Project Location: 450Q
Sample Description:
Work Order: 16C0970

Date Received: 3/21/2016

Field Sample #: TRC-SB-7 (10-12)
Sampled: 3/19/2016 15:00

Sample ID: 16C0970-16

Sample Matrix: Soil

Tentatively Identified Compounds - SV Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg dry			1			SW-846 8270D	3/23/16	3/26/16 16:27	BGL

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Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-7 (10-12)
Sampled: 3/19/2016 15:00
Sample ID: 16C0970-16
Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-Chlordane [1]	ND	0.0054	0.00031	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 10:26	PJG
gamma-Chlordane [1]	ND	0.0054	0.00031	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 10:26	PJG
Alachlor [1]	ND	0.022	0.0012	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 10:26	PJG
Aldrin [1]	ND	0.0054	0.00033	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 10:26	PJG
alpha-BHC [1]	ND	0.0054	0.00044	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 10:26	PJG
beta-BHC [1]	ND	0.0054	0.00054	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 10:26	PJG
delta-BHC [1]	ND	0.0054	0.00044	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 10:26	PJG
gamma-BHC (Lindane) [1]	ND	0.0022	0.00054	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 10:26	PJG
Chlordane [1]	ND	0.022	0.0063	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 10:26	PJG
4,4'-DDD [1]	ND	0.0044	0.00044	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 10:26	PJG
4,4'-DDE [1]	ND	0.0044	0.00033	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 10:26	PJG
4,4'-DDT [1]	ND	0.0044	0.00044	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 10:26	PJG
Dieldrin [1]	ND	0.0044	0.00033	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 10:26	PJG
Endosulfan I [1]	ND	0.0054	0.00044	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 10:26	PJG
Endosulfan II [1]	ND	0.0087	0.00033	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 10:26	PJG
Endosulfan sulfate [1]	ND	0.0087	0.0014	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 10:26	PJG
Endrin [1]	ND	0.0087	0.00033	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 10:26	PJG
Endrin aldehyde [1]	ND	0.0087	0.0013	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 10:26	PJG
Endrin ketone [1]	ND	0.0087	0.00044	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 10:26	PJG
Heptachlor [1]	ND	0.0054	0.00054	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 10:26	PJG
Heptachlor epoxide [1]	ND	0.0054	0.00044	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 10:26	PJG
Hexachlorobenzene [2]	ND	0.0065	0.00076	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 10:26	PJG
Methoxychlor [1]	ND	0.054	0.00065	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 10:26	PJG
Toxaphene [1]	ND	0.11	0.047	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 10:26	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	93.0	30-150		3/25/16 10:26
Decachlorobiphenyl [2]	110	30-150		3/25/16 10:26
Tetrachloro-m-xylene [1]	81.9	30-150		3/25/16 10:26
Tetrachloro-m-xylene [2]	78.7	30-150		3/25/16 10:26

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Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-7 (10-12)
Sampled: 3/19/2016 15:00
Sample ID: 16C0970-16
Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	0.065	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 21:23	BJH
Aroclor-1221 [1]	ND	0.11	0.071	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 21:23	BJH
Aroclor-1232 [1]	ND	0.11	0.049	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 21:23	BJH
Aroclor-1242 [1]	ND	0.11	0.054	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 21:23	BJH
Aroclor-1248 [1]	ND	0.11	0.065	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 21:23	BJH
Aroclor-1254 [1]	ND	0.11	0.071	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 21:23	BJH
Aroclor-1260 [1]	ND	0.11	0.076	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 21:23	BJH
Aroclor-1262 [1]	ND	0.11	0.054	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 21:23	BJH
Aroclor-1268 [1]	ND	0.11	0.044	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 21:23	BJH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	76.0	30-150		3/24/16 21:23
Decachlorobiphenyl [2]	83.9	30-150		3/24/16 21:23
Tetrachloro-m-xylene [1]	77.0	30-150		3/24/16 21:23
Tetrachloro-m-xylene [2]	89.1	30-150		3/24/16 21:23

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Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-7 (10-12)
Sampled: 3/19/2016 15:00
Sample ID: 16C0970-16
Sample Matrix: Soil

Herbicides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-D [2]	ND	27	9.1	µg/kg dry	1		SW-846 8151A	3/23/16	3/27/16 13:26	JMB
2,4,5-TP (Silvex) [2]	ND	2.7	1.7	µg/kg dry	1		SW-846 8151A	3/23/16	3/27/16 13:26	JMB
2,4,5-T [2]	ND	2.7	1.2	µg/kg dry	1		SW-846 8151A	3/23/16	3/27/16 13:26	JMB
Dalapon [2]	ND	68	11	µg/kg dry	1	V-20	SW-846 8151A	3/23/16	3/27/16 13:26	JMB
Dicamba [2]	ND	2.7	1.3	µg/kg dry	1		SW-846 8151A	3/23/16	3/27/16 13:26	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2,4-Dichlorophenylacetic acid [1]	118	30-150		3/27/16 13:26
2,4-Dichlorophenylacetic acid [2]	104	30-150		3/27/16 13:26

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Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-7 (10-12)
Sampled: 3/19/2016 15:00
Sample ID: 16C0970-16
Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Gasoline Range Organics (GRO)	ND	1.3	1.2	mg/Kg dry	1		SW-846 8015C	3/24/16	3/24/16 18:10	EEH
Diesel Range Organics	2.9	9.0	2.0	mg/Kg dry	1	J	SW-846 8015C	3/22/16	3/23/16 11:57	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1-Chloro-3-fluorobenzene	77.2	70-130		3/24/16 18:10
o-Terphenyl	48.6	40-140		3/23/16 11:57

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Project Location: 450Q
Sample Description:
Work Order: 16C0970

Date Received: 3/21/2016

Field Sample #: TRC-SB-7 (10-12)
Sampled: 3/19/2016 15:00

Sample ID: 16C0970-16

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	5300	2.6	2.2	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 15:47	AME
Antimony	ND	2.6	0.98	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 15:47	AME
Arsenic	1.3	2.6	0.48	mg/Kg dry	1	J	SW-846 6010C-D	3/22/16	3/25/16 15:47	AME
Barium	32	2.6	0.82	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 15:47	AME
Beryllium	0.47	0.26	0.21	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 15:47	AME
Cadmium	0.26	0.26	0.12	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 15:47	AME
Calcium	2300	7.9	4.7	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/28/16 21:01	AME
Chromium	12	0.53	0.25	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 15:47	AME
Cobalt	5.8	2.6	0.81	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 15:47	AME
Copper	13	0.53	0.19	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 15:47	AME
Iron	10000	2.6	1.4	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 15:47	AME
Lead	3.3	0.79	0.28	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/28/16 21:01	AME
Magnesium	3100	7.9	4.0	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 15:47	AME
Manganese	290	0.53	0.37	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 15:47	AME
Mercury	0.012	0.027	0.0046	mg/Kg dry	1	J	SW-846 7471B	3/22/16	3/23/16 15:33	TGW
Nickel	12	0.53	0.15	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 15:47	AME
Potassium	930	110	14	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 15:47	AME
Selenium	ND	5.3		mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 15:47	AME
Silver	ND	0.53	0.42	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 15:47	AME
Sodium	160	110	37	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 15:47	AME
Thallium	ND	2.6	1.7	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 15:47	AME
Vanadium	15	1.1	0.31	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 15:47	AME
Zinc	28	1.1	0.86	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 15:47	AME

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Project Location: 450Q
Sample Description:
Work Order: 16C0970

Date Received: 3/21/2016

Field Sample #: TRC-SB-7 (10-12)
Sampled: 3/19/2016 15:00

Sample ID: 16C0970-16

Sample Matrix: Soil

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

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	ND	0.52	0.25	mg/Kg dry	1		SW-846 9014	3/24/16	3/25/16 10:50	VAK
Hexavalent Chromium	ND	0.17	0.13	mg/Kg dry	1		SW-846 7196A	3/25/16	3/28/16 11:20	LL
Ignitability	Absent			present/absent	1		SW-846 1030	3/23/16	3/23/16 19:35	DJM
pH @21.7°C	7.9			pH Units	1	H-03	SW-846 9045C	3/23/16	3/23/16 7:55	LL
Reactive Cyanide	ND	4.0	4.0	mg/Kg	1		SW-846 9014	3/24/16	3/25/16 16:30	AG
Reactive Sulfide	ND	20	20	mg/Kg	1		SW-846 9030A	3/24/16	3/25/16 16:30	AG
% Solids	91.8			% Wt	1		SM 2540G	3/22/16	3/23/16 8:20	MRL

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Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-8 (1-3)
Sampled: 3/20/2016 14:20
Sample ID: 16C0970-17
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.098	0.023	mg/Kg dry	1	R-05	SW-846 8260C	3/23/16	3/24/16 8:38	MFF
Benzene	ND	0.0020	0.00068	mg/Kg dry	1		SW-846 8260C	3/23/16	3/24/16 8:38	MFF
Bromochloromethane	ND	0.0020	0.0014	mg/Kg dry	1		SW-846 8260C	3/23/16	3/24/16 8:38	MFF
Bromodichloromethane	ND	0.0020	0.00059	mg/Kg dry	1		SW-846 8260C	3/23/16	3/24/16 8:38	MFF
Bromoform	ND	0.0020	0.0014	mg/Kg dry	1		SW-846 8260C	3/23/16	3/24/16 8:38	MFF
Bromomethane	ND	0.0098	0.0017	mg/Kg dry	1		SW-846 8260C	3/23/16	3/24/16 8:38	MFF
2-Butanone (MEK)	ND	0.039	0.017	mg/Kg dry	1	R-05	SW-846 8260C	3/23/16	3/24/16 8:38	MFF
Carbon Disulfide	ND	0.0059	0.0034	mg/Kg dry	1		SW-846 8260C	3/23/16	3/24/16 8:38	MFF
Carbon Tetrachloride	ND	0.0020	0.00078	mg/Kg dry	1		SW-846 8260C	3/23/16	3/24/16 8:38	MFF
Chlorobenzene	ND	0.0020	0.00068	mg/Kg dry	1		SW-846 8260C	3/23/16	3/24/16 8:38	MFF
Chlorodibromomethane	ND	0.00098	0.00068	mg/Kg dry	1		SW-846 8260C	3/23/16	3/24/16 8:38	MFF
Chloroethane	ND	0.020	0.0015	mg/Kg dry	1		SW-846 8260C	3/23/16	3/24/16 8:38	MFF
Chloroform	ND	0.0039	0.00068	mg/Kg dry	1		SW-846 8260C	3/23/16	3/24/16 8:38	MFF
Chloromethane	ND	0.0098	0.00088	mg/Kg dry	1	L-04, V-05	SW-846 8260C	3/23/16	3/24/16 8:38	MFF
Cyclohexane	ND	0.0020	0.00078	mg/Kg dry	1	V-05	SW-846 8260C	3/23/16	3/24/16 8:38	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	0.0011	mg/Kg dry	1		SW-846 8260C	3/23/16	3/24/16 8:38	MFF
1,2-Dibromoethane (EDB)	ND	0.00098	0.00098	mg/Kg dry	1		SW-846 8260C	3/23/16	3/24/16 8:38	MFF
1,2-Dichlorobenzene	ND	0.0020	0.00068	mg/Kg dry	1		SW-846 8260C	3/23/16	3/24/16 8:38	MFF
1,3-Dichlorobenzene	ND	0.0020	0.00068	mg/Kg dry	1		SW-846 8260C	3/23/16	3/24/16 8:38	MFF
1,4-Dichlorobenzene	ND	0.0020	0.00078	mg/Kg dry	1		SW-846 8260C	3/23/16	3/24/16 8:38	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.020	0.0013	mg/Kg dry	1		SW-846 8260C	3/23/16	3/24/16 8:38	MFF
1,1-Dichloroethane	ND	0.0020	0.00068	mg/Kg dry	1		SW-846 8260C	3/23/16	3/24/16 8:38	MFF
1,2-Dichloroethane	ND	0.0020	0.0013	mg/Kg dry	1		SW-846 8260C	3/23/16	3/24/16 8:38	MFF
1,1-Dichloroethylene	ND	0.0039	0.0011	mg/Kg dry	1		SW-846 8260C	3/23/16	3/24/16 8:38	MFF
cis-1,2-Dichloroethylene	ND	0.0020	0.00078	mg/Kg dry	1		SW-846 8260C	3/23/16	3/24/16 8:38	MFF
trans-1,2-Dichloroethylene	ND	0.0020	0.00088	mg/Kg dry	1		SW-846 8260C	3/23/16	3/24/16 8:38	MFF
1,2-Dichloropropane	ND	0.0020	0.0013	mg/Kg dry	1		SW-846 8260C	3/23/16	3/24/16 8:38	MFF
cis-1,3-Dichloropropene	ND	0.00098	0.00068	mg/Kg dry	1		SW-846 8260C	3/23/16	3/24/16 8:38	MFF
trans-1,3-Dichloropropene	ND	0.00098	0.00068	mg/Kg dry	1		SW-846 8260C	3/23/16	3/24/16 8:38	MFF
Ethylbenzene	ND	0.0020	0.00078	mg/Kg dry	1		SW-846 8260C	3/23/16	3/24/16 8:38	MFF
2-Hexanone (MBK)	ND	0.020	0.011	mg/Kg dry	1	R-05	SW-846 8260C	3/23/16	3/24/16 8:38	MFF
Isopropylbenzene (Cumene)	ND	0.0020	0.00068	mg/Kg dry	1		SW-846 8260C	3/23/16	3/24/16 8:38	MFF
Methyl Acetate	ND	0.0020	0.0016	mg/Kg dry	1	L-04, V-05	SW-846 8260C	3/23/16	3/24/16 8:38	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0039	0.00088	mg/Kg dry	1		SW-846 8260C	3/23/16	3/24/16 8:38	MFF
Methyl Cyclohexane	ND	0.0020	0.00098	mg/Kg dry	1		SW-846 8260C	3/23/16	3/24/16 8:38	MFF
Methylene Chloride	ND	0.020	0.0069	mg/Kg dry	1	V-05	SW-846 8260C	3/23/16	3/24/16 8:38	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.020	0.0074	mg/Kg dry	1		SW-846 8260C	3/23/16	3/24/16 8:38	MFF
Styrene	ND	0.0020	0.00059	mg/Kg dry	1		SW-846 8260C	3/23/16	3/24/16 8:38	MFF
1,1,2,2-Tetrachloroethane	ND	0.00098	0.00088	mg/Kg dry	1		SW-846 8260C	3/23/16	3/24/16 8:38	MFF
Tetrachloroethylene	ND	0.0020	0.0013	mg/Kg dry	1		SW-846 8260C	3/23/16	3/24/16 8:38	MFF
Toluene	ND	0.0020	0.00078	mg/Kg dry	1		SW-846 8260C	3/23/16	3/24/16 8:38	MFF
1,2,3-Trichlorobenzene	ND	0.0020	0.00059	mg/Kg dry	1		SW-846 8260C	3/23/16	3/24/16 8:38	MFF
1,2,4-Trichlorobenzene	ND	0.0020	0.00078	mg/Kg dry	1		SW-846 8260C	3/23/16	3/24/16 8:38	MFF
1,1,1-Trichloroethane	ND	0.0020	0.00098	mg/Kg dry	1		SW-846 8260C	3/23/16	3/24/16 8:38	MFF

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-8 (1-3)
Sampled: 3/20/2016 14:20
Sample ID: 16C0970-17
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,2-Trichloroethane	ND	0.0020	0.0012	mg/Kg dry	1		SW-846 8260C	3/23/16	3/24/16 8:38	MFF
Trichloroethylene	ND	0.0020	0.00098	mg/Kg dry	1		SW-846 8260C	3/23/16	3/24/16 8:38	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0098	0.0011	mg/Kg dry	1		SW-846 8260C	3/23/16	3/24/16 8:38	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0098	0.00088	mg/Kg dry	1		SW-846 8260C	3/23/16	3/24/16 8:38	MFF
Vinyl Chloride	ND	0.0098	0.0011	mg/Kg dry	1		SW-846 8260C	3/23/16	3/24/16 8:38	MFF
m+p Xylene	ND	0.0039	0.0017	mg/Kg dry	1		SW-846 8260C	3/23/16	3/24/16 8:38	MFF
o-Xylene	ND	0.0020	0.00068	mg/Kg dry	1		SW-846 8260C	3/23/16	3/24/16 8:38	MFF
Xylenes (total)	ND	0.0059		mg/Kg dry	1		SW-846 8260C	3/23/16	3/24/16 8:38	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	99.4	70-130		3/24/16 8:38
Toluene-d8	93.2	70-130		3/24/16 8:38
4-Bromofluorobenzene	101	70-130		3/24/16 8:38

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

Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-8 (1-3)
Sampled: 3/20/2016 14:20
Sample ID: 16C0970-17
Sample Matrix: Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg dry			1			SW-846 8260C	3/23/16	3/24/16 8:38	MFF

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

Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-8 (1-3)
Sampled: 3/20/2016 14:20
Sample ID: 16C0970-17
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Atrazine	ND	0.71	0.60	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:52	CMR
Benzaldehyde	ND	0.36	0.34	mg/Kg dry	1	V-20	SW-846 8270D	3/23/16	3/26/16 16:52	CMR
Biphenyl	ND	0.71	0.45	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:52	CMR
Caprolactam	ND	0.36	0.27	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:52	CMR
Acenaphthene	0.090	0.18	0.054	mg/Kg dry	1	J	SW-846 8270D	3/23/16	3/26/16 16:52	CMR
Acenaphthylene	ND	0.18	0.061	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:52	CMR
Acetophenone	ND	0.36	0.071	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:52	CMR
Anthracene	0.21	0.18	0.052	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:52	CMR
Benzo(a)anthracene	0.94	0.18	0.048	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:52	CMR
Benzo(a)pyrene	0.91	0.18	0.056	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:52	CMR
Benzo(b)fluoranthene	1.1	0.18	0.051	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:52	CMR
Benzo(g,h,i)perylene	0.53	0.18	0.080	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:52	CMR
Benzo(k)fluoranthene	0.37	0.18	0.056	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:52	CMR
Bis(2-chloroethoxy)methane	ND	0.36	0.069	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:52	CMR
Bis(2-chloroethyl)ether	ND	0.36	0.071	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:52	CMR
Bis(2-chloroisopropyl)ether	ND	0.36	0.078	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:52	CMR
Bis(2-Ethylhexyl)phthalate	0.20	0.36	0.14	mg/Kg dry	1	J	SW-846 8270D	3/23/16	3/26/16 16:52	CMR
4-Bromophenylphenylether	ND	0.36	0.061	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:52	CMR
Butylbenzylphthalate	ND	0.36	0.086	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:52	CMR
Carbazole	0.094	0.18	0.047	mg/Kg dry	1	J	SW-846 8270D	3/23/16	3/26/16 16:52	CMR
4-Chloroaniline	ND	0.70	0.083	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:52	CMR
4-Chloro-3-methylphenol	ND	0.70	0.078	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:52	CMR
2-Chloronaphthalene	ND	0.36	0.068	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:52	CMR
2-Chlorophenol	ND	0.36	0.065	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:52	CMR
4-Chlorophenylphenylether	ND	0.36	0.061	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:52	CMR
Chrysene	0.91	0.18	0.056	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:52	CMR
Dibenz(a,h)anthracene	0.13	0.18	0.11	mg/Kg dry	1	J	SW-846 8270D	3/23/16	3/26/16 16:52	CMR
Dibenzofuran	ND	0.36	0.063	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:52	CMR
Di-n-butylphthalate	ND	0.36	0.079	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:52	CMR
3,3-Dichlorobenzidine	ND	0.18	0.055	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:52	CMR
2,4-Dichlorophenol	ND	0.36	0.062	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:52	CMR
Diethylphthalate	ND	0.36	0.065	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:52	CMR
2,4-Dimethylphenol	ND	0.36	0.067	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:52	CMR
Dimethylphthalate	ND	0.36	0.064	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:52	CMR
4,6-Dinitro-2-methylphenol	ND	0.36	0.34	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:52	CMR
2,4-Dinitrophenol	ND	0.70	0.21	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:52	CMR
2,4-Dinitrotoluene	ND	0.36	0.058	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:52	CMR
2,6-Dinitrotoluene	ND	0.36	0.064	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:52	CMR
Di-n-octylphthalate	ND	0.36	0.19	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:52	CMR
Fluoranthene	2.0	0.18	0.060	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:52	CMR
Fluorene	0.072	0.18	0.058	mg/Kg dry	1	J	SW-846 8270D	3/23/16	3/26/16 16:52	CMR
Hexachlorobenzene	ND	0.36	0.064	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:52	CMR
Hexachlorobutadiene	ND	0.36	0.064	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:52	CMR
Hexachlorocyclopentadiene	ND	0.36	0.077	mg/Kg dry	1	V-05	SW-846 8270D	3/23/16	3/26/16 16:52	CMR

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-8 (1-3)
Sampled: 3/20/2016 14:20
Sample ID: 16C0970-17
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachloroethane	ND	0.36	0.072	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:52	CMR
Indeno(1,2,3-cd)pyrene	0.55	0.18	0.13	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:52	CMR
Isophorone	ND	0.36	0.070	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:52	CMR
2-Methylnaphthalene	ND	0.18	0.063	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:52	CMR
2-Methylphenol	ND	0.36	0.090	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:52	CMR
3/4-Methylphenol	ND	0.36	0.11	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:52	CMR
Naphthalene	ND	0.18	0.092	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:52	CMR
2-Nitroaniline	ND	0.36	0.061	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:52	CMR
3-Nitroaniline	ND	0.36	0.052	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:52	CMR
4-Nitroaniline	ND	0.36	0.061	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:52	CMR
Nitrobenzene	ND	0.36	0.068	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:52	CMR
2-Nitrophenol	ND	0.36	0.096	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:52	CMR
4-Nitrophenol	ND	0.70	0.079	mg/Kg dry	1	V-20	SW-846 8270D	3/23/16	3/26/16 16:52	CMR
N-Nitrosodiphenylamine	ND	0.36	0.074	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:52	CMR
N-Nitrosodi-n-propylamine	ND	0.36	0.074	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:52	CMR
Pentachlorophenol	ND	0.36	0.087	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:52	CMR
Phenanthrene	1.2	0.18	0.094	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:52	CMR
Phenol	ND	0.36	0.062	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:52	CMR
Pyrene	2.4	0.18	0.060	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:52	CMR
1,2,4,5-Tetrachlorobenzene	ND	0.36	0.065	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:52	CMR
2,4,5-Trichlorophenol	ND	0.36	0.082	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:52	CMR
2,4,6-Trichlorophenol	ND	0.36	0.061	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 16:52	CMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	64.6	30-130		3/26/16 16:52
Phenol-d6	68.9	30-130		3/26/16 16:52
Nitrobenzene-d5	72.7	30-130		3/26/16 16:52
2-Fluorobiphenyl	75.3	30-130		3/26/16 16:52
2,4,6-Tribromophenol	72.5	30-130		3/26/16 16:52
p-Terphenyl-d14	89.7	30-130		3/26/16 16:52

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Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-8 (1-3)
Sampled: 3/20/2016 14:20
Sample ID: 16C0970-17
Sample Matrix: Soil

Tentatively Identified Compounds - SV Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzo[e]pyrene	0.64	mg/Kg dry	448361	8.883	1	000192-97-2	96	SW-846 8270D	3/23/16	3/26/16 16:52	BGL

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-8 (1-3)
Sampled: 3/20/2016 14:20
Sample ID: 16C0970-17
Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-Chlordane [1]	ND	0.0053	0.00030	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 10:49	PJG
gamma-Chlordane [1]	ND	0.0053	0.00030	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 10:49	PJG
Alachlor [1]	ND	0.021	0.0012	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 10:49	PJG
Aldrin [1]	ND	0.0053	0.00032	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 10:49	PJG
alpha-BHC [1]	ND	0.0053	0.00043	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 10:49	PJG
beta-BHC [1]	ND	0.0053	0.00053	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 10:49	PJG
delta-BHC [1]	ND	0.0053	0.00043	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 10:49	PJG
gamma-BHC (Lindane) [1]	ND	0.0021	0.00053	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 10:49	PJG
Chlordane [1]	ND	0.021	0.0062	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 10:49	PJG
4,4'-DDD [2]	0.0025	0.0043	0.00043	mg/Kg dry	1	J, V-06	SW-846 8081B	3/22/16	3/25/16 10:49	PJG
4,4'-DDE [2]	ND	0.0043	0.00032	mg/Kg dry	1	V-20	SW-846 8081B	3/22/16	3/25/16 10:49	PJG
4,4'-DDT [1]	0.0019	0.0043	0.00043	mg/Kg dry	1	J, P-01, V-24	SW-846 8081B	3/22/16	3/25/16 10:49	PJG
Dieldrin [1]	ND	0.0043	0.00032	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 10:49	PJG
Endosulfan I [1]	ND	0.0053	0.00043	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 10:49	PJG
Endosulfan II [2]	0.0013	0.0085	0.00032	mg/Kg dry	1	J, P-01	SW-846 8081B	3/22/16	3/25/16 10:49	PJG
Endosulfan sulfate [1]	ND	0.0085	0.0014	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 10:49	PJG
Endrin [1]	0.00078	0.0085	0.00032	mg/Kg dry	1	J, V-24	SW-846 8081B	3/22/16	3/25/16 10:49	PJG
Endrin aldehyde [1]	ND	0.0085	0.0013	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 10:49	PJG
Endrin ketone [1]	ND	0.0085	0.00043	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 10:49	PJG
Heptachlor [1]	ND	0.0053	0.00053	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 10:49	PJG
Heptachlor epoxide [1]	ND	0.0053	0.00043	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 10:49	PJG
Hexachlorobenzene [2]	ND	0.0064	0.00074	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 10:49	PJG
Methoxychlor [1]	ND	0.053	0.00064	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 10:49	PJG
Toxaphene [1]	ND	0.11	0.046	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 10:49	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	92.2	30-150		3/25/16 10:49
Decachlorobiphenyl [2]	115	30-150		3/25/16 10:49
Tetrachloro-m-xylene [1]	79.1	30-150		3/25/16 10:49
Tetrachloro-m-xylene [2]	76.6	30-150		3/25/16 10:49

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Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-8 (1-3)
Sampled: 3/20/2016 14:20
Sample ID: 16C0970-17
Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	0.064	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 21:36	BJH
Aroclor-1221 [1]	ND	0.11	0.069	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 21:36	BJH
Aroclor-1232 [1]	ND	0.11	0.048	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 21:36	BJH
Aroclor-1242 [1]	ND	0.11	0.053	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 21:36	BJH
Aroclor-1248 [1]	ND	0.11	0.064	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 21:36	BJH
Aroclor-1254 [1]	ND	0.11	0.069	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 21:36	BJH
Aroclor-1260 [1]	ND	0.11	0.074	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 21:36	BJH
Aroclor-1262 [1]	ND	0.11	0.053	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 21:36	BJH
Aroclor-1268 [1]	ND	0.11	0.043	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 21:36	BJH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	75.7	30-150		3/24/16 21:36
Decachlorobiphenyl [2]	83.8	30-150		3/24/16 21:36
Tetrachloro-m-xylene [1]	76.3	30-150		3/24/16 21:36
Tetrachloro-m-xylene [2]	87.5	30-150		3/24/16 21:36

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Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-8 (1-3)
Sampled: 3/20/2016 14:20
Sample ID: 16C0970-17
Sample Matrix: Soil

Herbicides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-D [2]	ND	27	8.8	µg/kg dry	1		SW-846 8151A	3/23/16	3/27/16 14:05	JMB
2,4,5-TP (Silvex) [2]	ND	2.7	1.6	µg/kg dry	1		SW-846 8151A	3/23/16	3/27/16 14:05	JMB
2,4,5-T [2]	ND	2.7	1.2	µg/kg dry	1		SW-846 8151A	3/23/16	3/27/16 14:05	JMB
Dalapon [2]	ND	66	10	µg/kg dry	1	V-20	SW-846 8151A	3/23/16	3/27/16 14:05	JMB
Dicamba [2]	ND	2.7	1.3	µg/kg dry	1		SW-846 8151A	3/23/16	3/27/16 14:05	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2,4-Dichlorophenylacetic acid [1]	109	30-150		3/27/16 14:05
2,4-Dichlorophenylacetic acid [2]	101	30-150		3/27/16 14:05

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Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-8 (1-3)
Sampled: 3/20/2016 14:20
Sample ID: 16C0970-17
Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	6300	2.5	2.1	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 15:53	AME
Antimony	ND	2.5	0.93	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 15:53	AME
Arsenic	2.9	2.5	0.46	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 15:53	AME
Barium	76	2.5	0.77	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 15:53	AME
Beryllium	0.54	0.25	0.20	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 15:53	AME
Cadmium	0.43	0.25	0.11	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 15:53	AME
Calcium	5500	7.5	4.4	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/28/16 21:06	AME
Chromium	15	0.50	0.23	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 15:53	AME
Cobalt	4.6	2.5	0.77	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 15:53	AME
Copper	25	0.50	0.18	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 15:53	AME
Iron	9900	2.5	1.3	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 15:53	AME
Lead	110	0.75	0.26	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/28/16 21:06	AME
Magnesium	2400	7.5	3.8	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 15:53	AME
Manganese	270	0.50	0.35	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 15:53	AME
Mercury	0.74	0.14	0.023	mg/Kg dry	5		SW-846 7471B	3/22/16	3/23/16 15:53	TGW
Nickel	9.0	0.50	0.14	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 15:53	AME
Potassium	810	99	14	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 15:53	AME
Selenium	ND	5.0		mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 15:53	AME
Silver	ND	0.50	0.39	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 15:53	AME
Sodium	110	99	35	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 15:53	AME
Thallium	ND	2.5	1.6	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 15:53	AME
Vanadium	15	0.99	0.29	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 15:53	AME
Zinc	88	0.99	0.82	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 15:53	AME

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Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-8 (1-3)
Sampled: 3/20/2016 14:20
Sample ID: 16C0970-17
Sample Matrix: Soil

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

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	94.1			% Wt	1		SM 2540G	3/22/16	3/23/16 8:20	MRL

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Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-8 (10-12)
Sampled: 3/20/2016 14:25
Sample ID: 16C0970-18
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.092	0.022	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 21:20	MFF
Benzene	ND	0.0018	0.00065	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 21:20	MFF
Bromochloromethane	ND	0.0018	0.0013	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 21:20	MFF
Bromodichloromethane	ND	0.0018	0.00055	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 21:20	MFF
Bromoform	ND	0.0018	0.0013	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 21:20	MFF
Bromomethane	ND	0.0092	0.0016	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 21:20	MFF
2-Butanone (MEK)	ND	0.037	0.016	mg/Kg dry	1	V-05	SW-846 8260C	3/23/16	3/23/16 21:20	MFF
Carbon Disulfide	ND	0.0055	0.0032	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 21:20	MFF
Carbon Tetrachloride	ND	0.0018	0.00074	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 21:20	MFF
Chlorobenzene	ND	0.0018	0.00065	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 21:20	MFF
Chlorodibromomethane	ND	0.00092	0.00065	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 21:20	MFF
Chloroethane	ND	0.018	0.0014	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 21:20	MFF
Chloroform	ND	0.0037	0.00065	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 21:20	MFF
Chloromethane	ND	0.0092	0.00083	mg/Kg dry	1	L-04, V-05	SW-846 8260C	3/23/16	3/23/16 21:20	MFF
Cyclohexane	ND	0.0018	0.00074	mg/Kg dry	1	V-05	SW-846 8260C	3/23/16	3/23/16 21:20	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0018	0.0010	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 21:20	MFF
1,2-Dibromoethane (EDB)	ND	0.00092	0.00092	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 21:20	MFF
1,2-Dichlorobenzene	ND	0.0018	0.00065	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 21:20	MFF
1,3-Dichlorobenzene	ND	0.0018	0.00065	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 21:20	MFF
1,4-Dichlorobenzene	ND	0.0018	0.00074	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 21:20	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.018	0.0012	mg/Kg dry	1	R-05	SW-846 8260C	3/23/16	3/23/16 21:20	MFF
1,1-Dichloroethane	ND	0.0018	0.00065	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 21:20	MFF
1,2-Dichloroethane	ND	0.0018	0.0012	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 21:20	MFF
1,1-Dichloroethylene	ND	0.0037	0.0010	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 21:20	MFF
cis-1,2-Dichloroethylene	ND	0.0018	0.00074	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 21:20	MFF
trans-1,2-Dichloroethylene	ND	0.0018	0.00083	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 21:20	MFF
1,2-Dichloropropane	ND	0.0018	0.0012	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 21:20	MFF
cis-1,3-Dichloropropene	ND	0.00092	0.00065	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 21:20	MFF
trans-1,3-Dichloropropene	ND	0.00092	0.00065	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 21:20	MFF
Ethylbenzene	ND	0.0018	0.00074	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 21:20	MFF
2-Hexanone (MBK)	ND	0.018	0.010	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 21:20	MFF
Isopropylbenzene (Cumene)	ND	0.0018	0.00065	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 21:20	MFF
Methyl Acetate	ND	0.0018	0.0015	mg/Kg dry	1	V-05	SW-846 8260C	3/23/16	3/23/16 21:20	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0037	0.00083	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 21:20	MFF
Methyl Cyclohexane	ND	0.0018	0.00092	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 21:20	MFF
Methylene Chloride	ND	0.018	0.0066	mg/Kg dry	1	V-05	SW-846 8260C	3/23/16	3/23/16 21:20	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.018	0.0070	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 21:20	MFF
Styrene	ND	0.0018	0.00055	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 21:20	MFF
1,1,2,2-Tetrachloroethane	ND	0.00092	0.00083	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 21:20	MFF
Tetrachloroethylene	ND	0.0018	0.0012	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 21:20	MFF
Toluene	ND	0.0018	0.00074	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 21:20	MFF
1,2,3-Trichlorobenzene	ND	0.0018	0.00055	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 21:20	MFF
1,2,4-Trichlorobenzene	ND	0.0018	0.00074	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 21:20	MFF
1,1,1-Trichloroethane	ND	0.0018	0.00092	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 21:20	MFF

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Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-8 (10-12)
Sampled: 3/20/2016 14:25
Sample ID: 16C0970-18
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,2-Trichloroethane	ND	0.0018	0.0011	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 21:20	MFF
Trichloroethylene	ND	0.0018	0.00092	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 21:20	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0092	0.0010	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 21:20	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0092	0.00083	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 21:20	MFF
Vinyl Chloride	ND	0.0092	0.0010	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 21:20	MFF
m+p Xylene	ND	0.0037	0.0016	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 21:20	MFF
o-Xylene	ND	0.0018	0.00065	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 21:20	MFF
Xylenes (total)	ND	0.0055		mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 21:20	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	97.5	70-130		3/23/16 21:20
Toluene-d8	89.7	70-130		3/23/16 21:20
4-Bromofluorobenzene	94.0	70-130		3/23/16 21:20

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Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-8 (10-12)
Sampled: 3/20/2016 14:25
Sample ID: 16C0970-18
Sample Matrix: Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg dry			1			SW-846 8260C	3/23/16	3/23/16 21:20	MFF

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Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-8 (10-12)
Sampled: 3/20/2016 14:25
Sample ID: 16C0970-18
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Atrazine	ND	0.69	0.58	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 17:17	CMR
Benzaldehyde	ND	0.35	0.33	mg/Kg dry	1	V-20	SW-846 8270D	3/23/16	3/26/16 17:17	CMR
Biphenyl	ND	0.69	0.44	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 17:17	CMR
Caprolactam	ND	0.35	0.26	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 17:17	CMR
Acenaphthene	ND	0.18	0.053	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 17:17	CMR
Acenaphthylene	ND	0.18	0.059	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 17:17	CMR
Acetophenone	ND	0.35	0.069	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 17:17	CMR
Anthracene	ND	0.18	0.050	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 17:17	CMR
Benzo(a)anthracene	ND	0.18	0.046	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 17:17	CMR
Benzo(a)pyrene	ND	0.18	0.055	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 17:17	CMR
Benzo(b)fluoranthene	ND	0.18	0.049	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 17:17	CMR
Benzo(g,h,i)perylene	ND	0.18	0.077	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 17:17	CMR
Benzo(k)fluoranthene	ND	0.18	0.055	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 17:17	CMR
Bis(2-chloroethoxy)methane	ND	0.35	0.067	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 17:17	CMR
Bis(2-chloroethyl)ether	ND	0.35	0.069	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 17:17	CMR
Bis(2-chloroisopropyl)ether	ND	0.35	0.075	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 17:17	CMR
Bis(2-Ethylhexyl)phthalate	0.15	0.35	0.14	mg/Kg dry	1	J	SW-846 8270D	3/23/16	3/26/16 17:17	CMR
4-Bromophenylphenylether	ND	0.35	0.059	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 17:17	CMR
Butylbenzylphthalate	ND	0.35	0.083	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 17:17	CMR
Carbazole	ND	0.18	0.045	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 17:17	CMR
4-Chloroaniline	ND	0.68	0.080	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 17:17	CMR
4-Chloro-3-methylphenol	ND	0.68	0.075	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 17:17	CMR
2-Chloronaphthalene	ND	0.35	0.066	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 17:17	CMR
2-Chlorophenol	ND	0.35	0.063	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 17:17	CMR
4-Chlorophenylphenylether	ND	0.35	0.059	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 17:17	CMR
Chrysene	ND	0.18	0.055	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 17:17	CMR
Dibenz(a,h)anthracene	ND	0.18	0.11	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 17:17	CMR
Dibenzofuran	ND	0.35	0.061	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 17:17	CMR
Di-n-butylphthalate	ND	0.35	0.076	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 17:17	CMR
3,3-Dichlorobenzidine	ND	0.18	0.054	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 17:17	CMR
2,4-Dichlorophenol	ND	0.35	0.060	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 17:17	CMR
Diethylphthalate	ND	0.35	0.063	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 17:17	CMR
2,4-Dimethylphenol	ND	0.35	0.065	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 17:17	CMR
Dimethylphthalate	ND	0.35	0.062	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 17:17	CMR
4,6-Dinitro-2-methylphenol	ND	0.35	0.33	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 17:17	CMR
2,4-Dinitrophenol	ND	0.68	0.20	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 17:17	CMR
2,4-Dinitrotoluene	ND	0.35	0.057	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 17:17	CMR
2,6-Dinitrotoluene	ND	0.35	0.062	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 17:17	CMR
Di-n-octylphthalate	ND	0.35	0.18	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 17:17	CMR
Fluoranthene	ND	0.18	0.058	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 17:17	CMR
Fluorene	ND	0.18	0.057	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 17:17	CMR
Hexachlorobenzene	ND	0.35	0.062	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 17:17	CMR
Hexachlorobutadiene	ND	0.35	0.062	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 17:17	CMR
Hexachlorocyclopentadiene	ND	0.35	0.074	mg/Kg dry	1	V-05	SW-846 8270D	3/23/16	3/26/16 17:17	CMR

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-8 (10-12)
Sampled: 3/20/2016 14:25
Sample ID: 16C0970-18
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachloroethane	ND	0.35	0.070	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 17:17	CMR
Indeno(1,2,3-cd)pyrene	ND	0.18	0.13	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 17:17	CMR
Isophorone	ND	0.35	0.068	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 17:17	CMR
2-Methylnaphthalene	ND	0.18	0.061	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 17:17	CMR
2-Methylphenol	ND	0.35	0.088	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 17:17	CMR
3/4-Methylphenol	ND	0.35	0.11	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 17:17	CMR
Naphthalene	ND	0.18	0.090	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 17:17	CMR
2-Nitroaniline	ND	0.35	0.059	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 17:17	CMR
3-Nitroaniline	ND	0.35	0.050	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 17:17	CMR
4-Nitroaniline	ND	0.35	0.059	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 17:17	CMR
Nitrobenzene	ND	0.35	0.066	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 17:17	CMR
2-Nitrophenol	ND	0.35	0.093	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 17:17	CMR
4-Nitrophenol	ND	0.68	0.076	mg/Kg dry	1	V-20	SW-846 8270D	3/23/16	3/26/16 17:17	CMR
N-Nitrosodiphenylamine	ND	0.35	0.072	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 17:17	CMR
N-Nitrosodi-n-propylamine	ND	0.35	0.072	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 17:17	CMR
Pentachlorophenol	ND	0.35	0.084	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 17:17	CMR
Phenanthrene	ND	0.18	0.091	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 17:17	CMR
Phenol	ND	0.35	0.060	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 17:17	CMR
Pyrene	ND	0.18	0.058	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 17:17	CMR
1,2,4,5-Tetrachlorobenzene	ND	0.35	0.063	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 17:17	CMR
2,4,5-Trichlorophenol	ND	0.35	0.079	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 17:17	CMR
2,4,6-Trichlorophenol	ND	0.35	0.059	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 17:17	CMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	72.7	30-130		3/26/16 17:17
Phenol-d6	78.6	30-130		3/26/16 17:17
Nitrobenzene-d5	82.9	30-130		3/26/16 17:17
2-Fluorobiphenyl	82.0	30-130		3/26/16 17:17
2,4,6-Tribromophenol	82.0	30-130		3/26/16 17:17
p-Terphenyl-d14	87.7	30-130		3/26/16 17:17

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

Project Location: 450Q
Sample Description:
Work Order: 16C0970

Date Received: 3/21/2016

Field Sample #: TRC-SB-8 (10-12)
Sampled: 3/20/2016 14:25

Sample ID: 16C0970-18

Sample Matrix: Soil

Tentatively Identified Compounds - SV Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg dry			1			SW-846 8270D	3/23/16	3/26/16 17:17	BGL

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Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-8 (10-12)
Sampled: 3/20/2016 14:25
Sample ID: 16C0970-18
Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-Chlordane [1]	ND	0.0051	0.00029	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 11:12	PJG
gamma-Chlordane [1]	ND	0.0051	0.00029	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 11:12	PJG
Alachlor [1]	ND	0.021	0.0011	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 11:12	PJG
Aldrin [1]	ND	0.0051	0.00031	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 11:12	PJG
alpha-BHC [1]	ND	0.0051	0.00041	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 11:12	PJG
beta-BHC [1]	ND	0.0051	0.00051	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 11:12	PJG
delta-BHC [1]	ND	0.0051	0.00041	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 11:12	PJG
gamma-BHC (Lindane) [1]	ND	0.0021	0.00051	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 11:12	PJG
Chlordane [1]	ND	0.021	0.0060	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 11:12	PJG
4,4'-DDD [2]	ND	0.0041	0.00041	mg/Kg dry	1	V-20	SW-846 8081B	3/22/16	3/25/16 11:12	PJG
4,4'-DDE [1]	ND	0.0041	0.00031	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 11:12	PJG
4,4'-DDT [1]	ND	0.0041	0.00041	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 11:12	PJG
Dieldrin [1]	ND	0.0041	0.00031	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 11:12	PJG
Endosulfan I [1]	ND	0.0051	0.00041	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 11:12	PJG
Endosulfan II [1]	ND	0.0082	0.00031	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 11:12	PJG
Endosulfan sulfate [1]	ND	0.0082	0.0013	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 11:12	PJG
Endrin [1]	ND	0.0082	0.00031	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 11:12	PJG
Endrin aldehyde [1]	ND	0.0082	0.0012	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 11:12	PJG
Endrin ketone [1]	ND	0.0082	0.00041	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 11:12	PJG
Heptachlor [1]	ND	0.0051	0.00051	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 11:12	PJG
Heptachlor epoxide [1]	ND	0.0051	0.00041	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 11:12	PJG
Hexachlorobenzene [2]	ND	0.0062	0.00072	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 11:12	PJG
Methoxychlor [1]	ND	0.051	0.00062	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 11:12	PJG
Toxaphene [1]	ND	0.10	0.044	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 11:12	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	95.9	30-150		3/25/16 11:12
Decachlorobiphenyl [2]	114	30-150		3/25/16 11:12
Tetrachloro-m-xylene [1]	81.8	30-150		3/25/16 11:12
Tetrachloro-m-xylene [2]	82.6	30-150		3/25/16 11:12

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

Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-8 (10-12)
Sampled: 3/20/2016 14:25
Sample ID: 16C0970-18
Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	0.062	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 21:49	BJH
Aroclor-1221 [1]	ND	0.10	0.067	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 21:49	BJH
Aroclor-1232 [1]	ND	0.10	0.046	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 21:49	BJH
Aroclor-1242 [1]	ND	0.10	0.051	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 21:49	BJH
Aroclor-1248 [1]	ND	0.10	0.062	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 21:49	BJH
Aroclor-1254 [1]	ND	0.10	0.067	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 21:49	BJH
Aroclor-1260 [1]	ND	0.10	0.072	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 21:49	BJH
Aroclor-1262 [1]	ND	0.10	0.051	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 21:49	BJH
Aroclor-1268 [1]	ND	0.10	0.041	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 21:49	BJH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	86.6	30-150		3/24/16 21:49
Decachlorobiphenyl [2]	87.8	30-150		3/24/16 21:49
Tetrachloro-m-xylene [1]	94.1	30-150		3/24/16 21:49
Tetrachloro-m-xylene [2]	104	30-150		3/24/16 21:49

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

Project Location: 450Q | Sample Description: | Work Order: 16C0970

Date Received: 3/21/2016

Field Sample #: TRC-SB-8 (10-12) | Sampled: 3/20/2016 14:25

Sample ID: 16C0970-18

Sample Matrix: Soil

Herbicides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-D [2]	ND	25	8.5	µg/kg dry	1		SW-846 8151A	3/23/16	3/27/16 14:43	JMB
2,4,5-TP (Silvex) [2]	ND	2.5	1.6	µg/kg dry	1		SW-846 8151A	3/23/16	3/27/16 14:43	JMB
2,4,5-T [2]	ND	2.5	1.1	µg/kg dry	1		SW-846 8151A	3/23/16	3/27/16 14:43	JMB
Dalapon [2]	ND	64	9.8	µg/kg dry	1	V-20	SW-846 8151A	3/23/16	3/27/16 14:43	JMB
Dicamba [2]	ND	2.5	1.3	µg/kg dry	1		SW-846 8151A	3/23/16	3/27/16 14:43	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2,4-Dichlorophenylacetic acid [1]	113	30-150		3/27/16 14:43
2,4-Dichlorophenylacetic acid [2]	100	30-150		3/27/16 14:43

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

Project Location: 450Q
Sample Description:
Work Order: 16C0970

Date Received: 3/21/2016

Field Sample #: TRC-SB-8 (10-12)
Sampled: 3/20/2016 14:25

Sample ID: 16C0970-18

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	2900	2.4	2.0	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 15:58	AME
Antimony	ND	2.4	0.90	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 15:58	AME
Arsenic	0.77	2.4	0.44	mg/Kg dry	1	J	SW-846 6010C-D	3/22/16	3/25/16 15:58	AME
Barium	20	2.4	0.75	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 15:58	AME
Beryllium	0.31	0.24	0.19	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 15:58	AME
Cadmium	0.16	0.24	0.11	mg/Kg dry	1	J	SW-846 6010C-D	3/22/16	3/25/16 15:58	AME
Calcium	850	7.2	4.3	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/28/16 21:11	AME
Chromium	6.3	0.48	0.23	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 15:58	AME
Cobalt	2.9	2.4	0.74	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 15:58	AME
Copper	9.2	0.48	0.17	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 15:58	AME
Iron	5500	2.4	1.3	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 15:58	AME
Lead	2.4	0.72	0.26	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/28/16 21:11	AME
Magnesium	1500	7.2	3.6	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 15:58	AME
Manganese	250	0.48	0.34	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 15:58	AME
Mercury	ND	0.025	0.0042	mg/Kg dry	1		SW-846 7471B	3/22/16	3/23/16 15:40	TGW
Nickel	7.1	0.48	0.14	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 15:58	AME
Potassium	450	96	13	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 15:58	AME
Selenium	ND	4.8		mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 15:58	AME
Silver	ND	0.48	0.38	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 15:58	AME
Sodium	61	96	34	mg/Kg dry	1	J	SW-846 6010C-D	3/22/16	3/25/16 15:58	AME
Thallium	ND	2.4	1.6	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 15:58	AME
Vanadium	7.2	0.96	0.28	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 15:58	AME
Zinc	14	0.96	0.79	mg/Kg dry	1		SW-846 6010C-D	3/22/16	3/25/16 15:58	AME

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

Project Location: 450Q
Sample Description:
Work Order: 16C0970

Date Received: 3/21/2016

Field Sample #: TRC-SB-8 (10-12)
Sampled: 3/20/2016 14:25

Sample ID: 16C0970-18

Sample Matrix: Soil

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

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	97.1			% Wt	1		SM 2540G	3/22/16	3/23/16 8:20	MRL

con-test® ANALYTICAL LABORATORY

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

Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-9 (1-3)
Sampled: 3/20/2016 11:30
Sample ID: 16C0970-19
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.088	0.021	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 21:47	MFF
Benzene	ND	0.0018	0.00061	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 21:47	MFF
Bromochloromethane	ND	0.0018	0.0012	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 21:47	MFF
Bromodichloromethane	ND	0.0018	0.00053	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 21:47	MFF
Bromoform	ND	0.0018	0.0012	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 21:47	MFF
Bromomethane	ND	0.0088	0.0015	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 21:47	MFF
2-Butanone (MEK)	ND	0.035	0.015	mg/Kg dry	1	V-05	SW-846 8260C	3/23/16	3/23/16 21:47	MFF
Carbon Disulfide	ND	0.0053	0.0031	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 21:47	MFF
Carbon Tetrachloride	ND	0.0018	0.00070	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 21:47	MFF
Chlorobenzene	ND	0.0018	0.00061	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 21:47	MFF
Chlorodibromomethane	ND	0.00088	0.00061	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 21:47	MFF
Chloroethane	ND	0.018	0.0013	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 21:47	MFF
Chloroform	ND	0.0035	0.00061	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 21:47	MFF
Chloromethane	ND	0.0088	0.00079	mg/Kg dry	1	L-04, V-05	SW-846 8260C	3/23/16	3/23/16 21:47	MFF
Cyclohexane	ND	0.0018	0.00070	mg/Kg dry	1	V-05	SW-846 8260C	3/23/16	3/23/16 21:47	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0018	0.00097	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 21:47	MFF
1,2-Dibromoethane (EDB)	ND	0.00088	0.00088	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 21:47	MFF
1,2-Dichlorobenzene	ND	0.0018	0.00061	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 21:47	MFF
1,3-Dichlorobenzene	ND	0.0018	0.00061	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 21:47	MFF
1,4-Dichlorobenzene	ND	0.0018	0.00070	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 21:47	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.018	0.0011	mg/Kg dry	1	R-05	SW-846 8260C	3/23/16	3/23/16 21:47	MFF
1,1-Dichloroethane	ND	0.0018	0.00061	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 21:47	MFF
1,2-Dichloroethane	ND	0.0018	0.0011	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 21:47	MFF
1,1-Dichloroethylene	ND	0.0035	0.00097	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 21:47	MFF
cis-1,2-Dichloroethylene	ND	0.0018	0.00070	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 21:47	MFF
trans-1,2-Dichloroethylene	ND	0.0018	0.00079	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 21:47	MFF
1,2-Dichloropropane	ND	0.0018	0.0011	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 21:47	MFF
cis-1,3-Dichloropropene	ND	0.00088	0.00061	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 21:47	MFF
trans-1,3-Dichloropropene	ND	0.00088	0.00061	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 21:47	MFF
Ethylbenzene	ND	0.0018	0.00070	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 21:47	MFF
2-Hexanone (MBK)	ND	0.018	0.0096	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 21:47	MFF
Isopropylbenzene (Cumene)	ND	0.0018	0.00061	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 21:47	MFF
Methyl Acetate	ND	0.0018	0.0014	mg/Kg dry	1	V-05	SW-846 8260C	3/23/16	3/23/16 21:47	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0035	0.00079	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 21:47	MFF
Methyl Cyclohexane	ND	0.0018	0.00088	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 21:47	MFF
Methylene Chloride	ND	0.018	0.0062	mg/Kg dry	1	V-05	SW-846 8260C	3/23/16	3/23/16 21:47	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.018	0.0067	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 21:47	MFF
Styrene	ND	0.0018	0.00053	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 21:47	MFF
1,1,2,2-Tetrachloroethane	ND	0.00088	0.00079	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 21:47	MFF
Tetrachloroethylene	ND	0.0018	0.0011	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 21:47	MFF
Toluene	ND	0.0018	0.00070	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 21:47	MFF
1,2,3-Trichlorobenzene	ND	0.0018	0.00053	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 21:47	MFF
1,2,4-Trichlorobenzene	ND	0.0018	0.00070	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 21:47	MFF
1,1,1-Trichloroethane	ND	0.0018	0.00088	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 21:47	MFF

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-9 (1-3)
Sampled: 3/20/2016 11:30
Sample ID: 16C0970-19
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,2-Trichloroethane	ND	0.0018	0.0011	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 21:47	MFF
Trichloroethylene	ND	0.0018	0.00088	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 21:47	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0088	0.00097	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 21:47	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0088	0.00079	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 21:47	MFF
Vinyl Chloride	ND	0.0088	0.00097	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 21:47	MFF
m+p Xylene	ND	0.0035	0.0015	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 21:47	MFF
o-Xylene	ND	0.0018	0.00061	mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 21:47	MFF
Xylenes (total)	ND	0.0053		mg/Kg dry	1		SW-846 8260C	3/23/16	3/23/16 21:47	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	98.9	70-130		3/23/16 21:47
Toluene-d8	91.5	70-130		3/23/16 21:47
4-Bromofluorobenzene	95.0	70-130		3/23/16 21:47

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

Project Location: 450Q
Sample Description:
Work Order: 16C0970

Date Received: 3/21/2016

Field Sample #: TRC-SB-9 (1-3)
Sampled: 3/20/2016 11:30

Sample ID: 16C0970-19

Sample Matrix: Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg dry			1			SW-846 8260C	3/23/16	3/23/16 21:47	MFF

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

Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-9 (1-3)
Sampled: 3/20/2016 11:30
Sample ID: 16C0970-19
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Atrazine	ND	0.74	0.62	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 17:41	CMR
Benzaldehyde	ND	0.37	0.35	mg/Kg dry	1	V-20	SW-846 8270D	3/23/16	3/26/16 17:41	CMR
Biphenyl	ND	0.74	0.47	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 17:41	CMR
Caprolactam	ND	0.37	0.28	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 17:41	CMR
Acenaphthene	ND	0.19	0.056	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 17:41	CMR
Acenaphthylene	ND	0.19	0.063	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 17:41	CMR
Acetophenone	ND	0.37	0.074	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 17:41	CMR
Anthracene	ND	0.19	0.054	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 17:41	CMR
Benzo(a)anthracene	ND	0.19	0.049	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 17:41	CMR
Benzo(a)pyrene	ND	0.19	0.058	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 17:41	CMR
Benzo(b)fluoranthene	ND	0.19	0.053	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 17:41	CMR
Benzo(g,h,i)perylene	ND	0.19	0.082	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 17:41	CMR
Benzo(k)fluoranthene	ND	0.19	0.058	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 17:41	CMR
Bis(2-chloroethoxy)methane	ND	0.37	0.071	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 17:41	CMR
Bis(2-chloroethyl)ether	ND	0.37	0.074	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 17:41	CMR
Bis(2-chloroisopropyl)ether	ND	0.37	0.080	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 17:41	CMR
Bis(2-Ethylhexyl)phthalate	ND	0.37	0.14	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 17:41	CMR
4-Bromophenylphenylether	ND	0.37	0.063	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 17:41	CMR
Butylbenzylphthalate	ND	0.37	0.089	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 17:41	CMR
Carbazole	ND	0.19	0.048	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 17:41	CMR
4-Chloroaniline	ND	0.72	0.086	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 17:41	CMR
4-Chloro-3-methylphenol	ND	0.72	0.080	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 17:41	CMR
2-Chloronaphthalene	ND	0.37	0.070	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 17:41	CMR
2-Chlorophenol	ND	0.37	0.067	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 17:41	CMR
4-Chlorophenylphenylether	ND	0.37	0.063	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 17:41	CMR
Chrysene	ND	0.19	0.058	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 17:41	CMR
Dibenz(a,h)anthracene	ND	0.19	0.11	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 17:41	CMR
Dibenzofuran	ND	0.37	0.065	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 17:41	CMR
Di-n-butylphthalate	ND	0.37	0.081	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 17:41	CMR
3,3-Dichlorobenzidine	ND	0.19	0.057	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 17:41	CMR
2,4-Dichlorophenol	ND	0.37	0.064	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 17:41	CMR
Diethylphthalate	ND	0.37	0.067	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 17:41	CMR
2,4-Dimethylphenol	ND	0.37	0.069	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 17:41	CMR
Dimethylphthalate	ND	0.37	0.066	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 17:41	CMR
4,6-Dinitro-2-methylphenol	ND	0.37	0.35	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 17:41	CMR
2,4-Dinitrophenol	ND	0.72	0.21	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 17:41	CMR
2,4-Dinitrotoluene	ND	0.37	0.060	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 17:41	CMR
2,6-Dinitrotoluene	ND	0.37	0.066	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 17:41	CMR
Di-n-octylphthalate	ND	0.37	0.20	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 17:41	CMR
Fluoranthene	ND	0.19	0.061	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 17:41	CMR
Fluorene	ND	0.19	0.060	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 17:41	CMR
Hexachlorobenzene	ND	0.37	0.066	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 17:41	CMR
Hexachlorobutadiene	ND	0.37	0.066	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 17:41	CMR
Hexachlorocyclopentadiene	ND	0.37	0.079	mg/Kg dry	1	V-05	SW-846 8270D	3/23/16	3/26/16 17:41	CMR

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-9 (1-3)
Sampled: 3/20/2016 11:30
Sample ID: 16C0970-19
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachloroethane	ND	0.37	0.075	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 17:41	CMR
Indeno(1,2,3-cd)pyrene	ND	0.19	0.13	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 17:41	CMR
Isophorone	ND	0.37	0.072	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 17:41	CMR
2-Methylnaphthalene	ND	0.19	0.065	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 17:41	CMR
2-Methylphenol	ND	0.37	0.093	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 17:41	CMR
3/4-Methylphenol	ND	0.37	0.12	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 17:41	CMR
Naphthalene	ND	0.19	0.095	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 17:41	CMR
2-Nitroaniline	ND	0.37	0.063	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 17:41	CMR
3-Nitroaniline	ND	0.37	0.054	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 17:41	CMR
4-Nitroaniline	ND	0.37	0.063	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 17:41	CMR
Nitrobenzene	ND	0.37	0.070	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 17:41	CMR
2-Nitrophenol	ND	0.37	0.099	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 17:41	CMR
4-Nitrophenol	ND	0.72	0.081	mg/Kg dry	1	V-20	SW-846 8270D	3/23/16	3/26/16 17:41	CMR
N-Nitrosodiphenylamine	ND	0.37	0.077	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 17:41	CMR
N-Nitrosodi-n-propylamine	ND	0.37	0.077	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 17:41	CMR
Pentachlorophenol	ND	0.37	0.090	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 17:41	CMR
Phenanthrene	ND	0.19	0.097	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 17:41	CMR
Phenol	ND	0.37	0.064	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 17:41	CMR
Pyrene	ND	0.19	0.061	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 17:41	CMR
1,2,4,5-Tetrachlorobenzene	ND	0.37	0.067	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 17:41	CMR
2,4,5-Trichlorophenol	ND	0.37	0.085	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 17:41	CMR
2,4,6-Trichlorophenol	ND	0.37	0.063	mg/Kg dry	1		SW-846 8270D	3/23/16	3/26/16 17:41	CMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	54.1	30-130		3/26/16 17:41
Phenol-d6	56.5	30-130		3/26/16 17:41
Nitrobenzene-d5	67.7	30-130		3/26/16 17:41
2-Fluorobiphenyl	65.9	30-130		3/26/16 17:41
2,4,6-Tribromophenol	53.8	30-130		3/26/16 17:41
p-Terphenyl-d14	66.0	30-130		3/26/16 17:41

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-9 (1-3)
Sampled: 3/20/2016 11:30
Sample ID: 16C0970-19
Sample Matrix: Soil

Tentatively Identified Compounds - SV Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg dry			1			SW-846 8270D	3/23/16	3/26/16 17:41	BGL

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-9 (1-3)
Sampled: 3/20/2016 11:30
Sample ID: 16C0970-19
Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-Chlordane [1]	ND	0.0055	0.00031	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 11:36	PJG
gamma-Chlordane [1]	ND	0.0055	0.00031	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 11:36	PJG
Alachlor [1]	ND	0.022	0.0012	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 11:36	PJG
Aldrin [1]	ND	0.0055	0.00033	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 11:36	PJG
alpha-BHC [1]	ND	0.0055	0.00044	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 11:36	PJG
beta-BHC [1]	ND	0.0055	0.00055	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 11:36	PJG
delta-BHC [2]	ND	0.0055	0.00044	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 11:36	PJG
gamma-BHC (Lindane) [1]	ND	0.0022	0.00055	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 11:36	PJG
Chlordane [2]	0.046	0.022	0.0064	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 11:36	PJG
4,4'-DDD [1]	ND	0.0044	0.00044	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 11:36	PJG
4,4'-DDE [1]	0.00095	0.0044	0.00033	mg/Kg dry	1	J, V-24	SW-846 8081B	3/22/16	3/25/16 11:36	PJG
4,4'-DDT [1]	0.0041	0.0044	0.00044	mg/Kg dry	1	J, P-02, V-24	SW-846 8081B	3/22/16	3/25/16 11:36	PJG
Dieldrin [1]	0.0013	0.0044	0.00033	mg/Kg dry	1	J	SW-846 8081B	3/22/16	3/25/16 11:36	PJG
Endosulfan I [1]	ND	0.0055	0.00044	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 11:36	PJG
Endosulfan II [2]	0.00087	0.0088	0.00033	mg/Kg dry	1	J	SW-846 8081B	3/22/16	3/25/16 11:36	PJG
Endosulfan sulfate [1]	ND	0.0088	0.0014	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 11:36	PJG
Endrin [1]	0.00039	0.0088	0.00033	mg/Kg dry	1	J, P-02, V-24	SW-846 8081B	3/22/16	3/25/16 11:36	PJG
Endrin aldehyde [1]	ND	0.0088	0.0013	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 11:36	PJG
Endrin ketone [1]	ND	0.0088	0.00044	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 11:36	PJG
Heptachlor [1]	ND	0.0055	0.00055	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 11:36	PJG
Heptachlor epoxide [1]	0.00095	0.0055	0.00044	mg/Kg dry	1	J	SW-846 8081B	3/22/16	3/25/16 11:36	PJG
Hexachlorobenzene [2]	ND	0.0066	0.00077	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 11:36	PJG
Methoxychlor [1]	ND	0.055	0.00066	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 11:36	PJG
Toxaphene [1]	ND	0.11	0.047	mg/Kg dry	1		SW-846 8081B	3/22/16	3/25/16 11:36	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	90.2	30-150		3/25/16 11:36
Decachlorobiphenyl [2]	112	30-150		3/25/16 11:36
Tetrachloro-m-xylene [1]	79.2	30-150		3/25/16 11:36
Tetrachloro-m-xylene [2]	78.4	30-150		3/25/16 11:36

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-9 (1-3)
Sampled: 3/20/2016 11:30
Sample ID: 16C0970-19
Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	0.066	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 22:02	BJH
Aroclor-1221 [1]	ND	0.11	0.071	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 22:02	BJH
Aroclor-1232 [1]	ND	0.11	0.049	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 22:02	BJH
Aroclor-1242 [1]	ND	0.11	0.055	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 22:02	BJH
Aroclor-1248 [1]	ND	0.11	0.066	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 22:02	BJH
Aroclor-1254 [1]	ND	0.11	0.071	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 22:02	BJH
Aroclor-1260 [1]	ND	0.11	0.077	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 22:02	BJH
Aroclor-1262 [1]	ND	0.11	0.055	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 22:02	BJH
Aroclor-1268 [1]	ND	0.11	0.044	mg/Kg dry	5		SW-846 8082A	3/22/16	3/24/16 22:02	BJH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	47.9	30-150		3/24/16 22:02
Decachlorobiphenyl [2]	55.6	30-150		3/24/16 22:02
Tetrachloro-m-xylene [1]	49.4	30-150		3/24/16 22:02
Tetrachloro-m-xylene [2]	55.7	30-150		3/24/16 22:02

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Project Location: 450Q
Sample Description:
Work Order: 16C0970
Date Received: 3/21/2016
Field Sample #: TRC-SB-9 (1-3)
Sampled: 3/20/2016 11:30
Sample ID: 16C0970-19
Sample Matrix: Soil

Herbicides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-D [2]	ND	27	9.1	µg/kg dry	1		SW-846 8151A	3/23/16	3/27/16 15:22	JMB
2,4,5-TP (Silvex) [2]	ND	2.7	1.7	µg/kg dry	1		SW-846 8151A	3/23/16	3/27/16 15:22	JMB
2,4,5-T [2]	ND	2.7	1.2	µg/kg dry	1		SW-846 8151A	3/23/16	3/27/16 15:22	JMB
Dalapon [2]	ND	68	11	µg/kg dry	1	V-20	SW-846 8151A	3/23/16	3/27/16 15:22	JMB
Dicamba [2]	ND	2.7	1.3	µg/kg dry	1		SW-846 8151A	3/23/16	3/27/16 15:22	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2,4-Dichlorophenylacetic acid [1]	99.2	30-150		3/27/16 15:22
2,4-Dichlorophenylacetic acid [2]	99.7	30-150		3/27/16 15:22