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**PHASE II  
SUBSURFACE INVESTIGATION REPORT**

**Former Mystic Oral School for the Deaf  
Groton, Connecticut**

**June 2013**

**Prepared for**

**STATE OF CONNECTICUT  
DEPARTMENT OF ECONOMIC AND COMMUNITY DEVELOPMENT  
OFFICE OF BROWNFIELD REMEDIATION AND DEVELOPMENT  
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## **ACRONYMS**

AOCs	Areas of Concern
AST	Aboveground Storage Tank
CSM	Conceptual Site Model
DAS	Department of Administrative Services
DEEP	Department of Energy and Environmental Protection
DECD	Department of Economic and Community Development
DQA	Data Quality Assessment
DUE	Data Usability Evaluation
EPA	Environmental Protection Agency
ESA	Environmental Site Assessment
ETPH	Extractable Total Petroleum Hydrocarbons
FIRM	Flood Insurance Rate Map
GIS	Geographic Information System



GPR	Ground-Penetrating Radar
HBM	Hazardous Building Materials
LEA	Loureiro Engineering Associates, Inc.
NAPL	Non-Aqueous Phase Liquid
NAVD	North American Vertical Datum
OBRD	Office of Brownfield Remediation and Development
PAHs	Polynuclear Aromatic Hydrocarbons
PCBs	Polychlorinated Biphenyls
PID	Photoionization Detector
QA	Quality Assurance
QC	Quality Control
QA/QC	Quality Assurance/Quality Control
RCP	Reasonable Confidence Protocols
RCSA	Regulations of Connecticut State Agencies
RPD	Relative Percent Difference
RSRs	Remediation Standard Regulations
SCGD	Site Characterization Guidance Document
SIM	Selective Ion Monitoring
USGS	United States Geological Survey
UST	Underground Storage Tank
VOCs	Volatile Organic Compounds

## **UNITS**

%	percent
fbg	feet below grade
mg/kg	milligrams per kilogram
mg/l	milligrams per liter
ppm	parts per million
µg/kg	micrograms per kilogram
µg/l	micrograms per liter



## **1. INTRODUCTION**

### **1.1 Background**

Loureiro Engineering Associates, Inc. (LEA) has prepared this report to document the findings of Phase II subsurface investigation activities conducted at the developed portion of the state-owned Mystic Oral School property located in Groton, Connecticut (herein after referred to as the “Site”). The Phase II activities were authorized by the State of Connecticut Department of Economic and Community Development (DECD), Office of Brownfield Remediation and Development (OBRD) under Purchase Order No. ECDM1-0000007972. Funding for the Phase II activities were made available through a state grant and *An Act Promoting Economic Growth and Job Creation in the State* (Public Act No. 11-1).

The Site is the location of the former Mystic Oral School for the Deaf. This property is currently owned by the State of Connecticut and is maintained by the Department of Administrative Services (DAS). The Site is comprised of portions of two parcels: 0 Oral School Road, encompassing approximately eight acres; and 240 Oral School Road, encompassing approximately 40 acres. The school property, together with abutting land currently owned by the State of Connecticut and maintained by the Department of Energy and Environmental Protection (DEEP), once comprised a much larger tract of land that encompassed approximately 150 acres.

In 2011, the State of Connecticut identified the Site as surplus property. The DAS intends to sell the property once the Site has been assessed and cleaned-up. Accordingly, the DECD contracted with LEA to conduct a Phase I ESA, Phase II ESA, and hazardous building materials (HBM) assessment of the developed portions of the former Mystic Oral School property. The findings of the Phase I Environmental Site Assessment (ESA) and HBM assessment are documented in reports provided separately to DECD and are not included in this Phase II Subsurface Investigation Report.

### **1.2 Purpose and Scope**

The Phase I ESA was performed by LEA to assess the potential for historical activities conducted at the Site and in the surrounding area to have affected the environmental condition of the Site (LEA, 2013). Based on the findings of the Phase I ESA, seventeen areas of concern (AOCs) were identified at the Site. The AOCs include areas where petroleum hydrocarbons were reported to have been released to the ground surface, impacting subsurface soils.

The purpose of performing the Phase II subsurface investigation activities was to assess, in accordance with a conceptual site model (CSM), whether or not petroleum products have been



released from other AOCs and whether or not hazardous substances have been released at the Site. In addition to this primary purpose, the investigation activities were performed to obtain information relative to the composition of subsurface materials and to provide an evaluation of the concentrations of constituents in soil relative to applicable standards and criteria provided in Sections 22a-133k-1 through 22a-133k-3 of the Regulations of Connecticut State Agencies (RCSA), referred to as the Connecticut Remediation Standard Regulations (RSRs) (DEEP, 1996).

The Phase II subsurface investigation activities consisted of geophysical surveying, soil boring advancement, and the collection of soil and groundwater samples for laboratory analyses. These activities were performed in accordance with relevant components of the *Site Characterization Guidance Document* (SCGD) issued by the DEEP in 2010 (DEEP, 2010). These activities were performed with the overall intent of collecting data that could be used to assess whether constituents were released to the environment, and to eventually demonstrate compliance with the RSRs.

This Phase II Subsurface Investigation Report has been prepared in accordance with the relevant sections of the SCGG and in accordance with the *Standard Practice for Environmental Site Assessments: Phase II Environmental Site Assessment Process, ASTM E 1903-11* (ASTM, 2011). The purposes of this report are to: document the performance of the investigation activities, evaluate and summarize the results of these activities, and to provide recommendations for further action at the Site, as appropriate. The information presented in this report includes both a preliminary and updated CSM that describes potential sources of releases to the environment, constituents of concern, potential contaminant migration pathways, and potential receptors.

### **1.3 User Reliance**

This report has been prepared for the DECD. This report may be distributed and relied upon by the DECD, its successors and assigns. Reliance on the information contained in this report by any other person or entity is not authorized without the written consent of LEA.

### **1.4 Report Organization**

This report has been organized such that tables, figures, drawings, and appendices are presented following the text of the report. The information provided in the remaining sections of this report is presented as follows:

- A description of the physical features of the Site, its location, ownership history, and use is presented in Section 2.



- Information on the environmental setting of the Site is presented in Section 3.
- The preliminary CSM, which describes the suspected release mechanisms, contaminant migration pathways, affected environmental media, and the constituents of concern for each AOC, based on the results of the Phase I ESA, is provided in Section 4.
- A description of the subsurface investigation activities is provided in Section 5.
- The investigation results are presented in Section 6.
- A comparison of the laboratory results to regulatory criteria is provided in Section 7.
- An updated CSM is provided in Section 8.
- A summary of the Phase II activities conducted at the Site is provided in Section 9, including findings and conclusions that have been drawn based on the results of the investigation activities.
- References are provided in Section 10.



## **2. SITE INFORMATION**

### **2.1 Site Location**

The Site is located 0.2 miles north of the intersection of Oral School Road and Boulder Court and approximately 0.25 miles north of Interstate Highway 95 in the northeastern portion of Groton, Connecticut. The two parcels that comprise the Site are identified by the Town of Groton Tax Assessor's Office as 0 Oral School Rd and 240 Oral School Road, and are listed on the current Town of Groton Assessors Cards as Map IDs 261906297210E and 261906388923E, respectively.

Based on a review of the United States Geological Survey (USGS) 7.5-minute series topographic quadrangles for Old Mystic and Mystic, Connecticut, the center of the Site is located approximately at 41° 22'35" north latitude and 71° 58'19" west longitude (USGS, 1983 and 1984, photo-revised 1989 and 1996). The location of the Site, the topography of the surrounding area, and the locations of nearby water bodies, man-made structures, and major access routes are shown in Figure 2-1, which was developed from a portion of the above-referenced topographic quadrangle maps.

The zoning designation for the Site and surrounding area is RU-80, designating a rural residential area. Much of the area surrounding the Site is comprised of undeveloped land owned by the State of Connecticut. However, the Site is bordered by a number of residential properties to the south and west, along Oral School Road and Boulder Court.

### **2.2 Site Characteristics**

The characteristics of the Site are presented in the Site Plan provided as Drawing 2-1. As shown in this drawing, the parcel identified as 0 Oral School Road is situated along the west side of Oral School Road. The developed portion of this parcel encompasses approximately 1.5 acres and is improved with a paved parking lot. The parcel identified as 240 Oral School Road is situated along the east side of Oral School Road. The developed portion of this parcel encompasses approximately 40 acres. This parcel is improved with seven primary buildings used as part of the former Mystic Oral School for the Deaf and referred to as the Administration (Boys Wing) Building, Girls Wing, Whipple Building, Crouter Building, Durant Building, Pratt Building, and Rainbow House. In addition, the site improvements include a Maintenance Garage, Rainbow House Garage, Wood Shed, and ancillary driveways and parking lots. This parcel also includes a Recreation Field and fire pond identified as Mystic Oral School Pond.



The Site is currently vacant, with the exception of personnel conducting routine maintenance of the Site and associated buildings.

### **2.3 Structures**

The existing site buildings encompass an area of approximately 240,000 square feet. The buildings were constructed between approximately 1924 and 1976. A summary of each building that identifies the date that the building was constructed is provided in Table 2-1.

### **2.4 Utilities**

Public utilities, including those for electric, sewer, and water are available at the Site. Electricity in the vicinity of the Site is provided by Connecticut Light and Power. Municipal sewer and water service is provided by the Town of Groton. Heat and hot water are provided to the buildings at the Site through a number of oil-fired steam boiler furnaces.

### **2.5 Site Ownership History and Use**

#### **2.5.1 General Site Use**

In 1869, the Whipple Home School for Deaf Mutes was founded in Ledyard, Connecticut. In circa 1872, the school was re-located to the Mystic property. At this time, the school consisted of a house and a brick dormitory. The name Mystic Oral School for the Deaf was adopted in 1895. The State of Connecticut purchased the site property in 1921.

During its early years, the school property was self-sufficient. In addition to classrooms and dormitories, the school property included buildings to maintain agriculture and livestock operations. The property also included a dedicated sewage treatment plant. This treatment plant is located beyond the Site property boundary on DEEP-maintained property that abuts the Site to the south-southeast. Historically, buildings associated with farming practices were located on the existing Recreation Field.

During the developmental history of the school campus, a number of buildings were constructed as provided in Table 2-1. The buildings included classrooms, dormitories, as well as living space for families of children enrolled in the school. Various buildings also included gymnasiums, a photography laboratory, an internal combustion engine laboratory, as well as carpentry and paint shops. The Pratt building, the last structure constructed at the Site, was built in 1976 to provide a new gymnasium and natatorium.



The Mystic Oral School for the Deaf was closed in June 1980. Later that year, the name of the facility was changed to the Mystic Educational Center. The campus facility later became known as the Mystic Educational Center and Mystic Community Center O.S. Until it was closed in 2011, the facility was used by a number of entities including the State of Connecticut Department of Mental Retardation. The State of Connecticut leased the natatorium to the Johnson and Memorial Hospital and to the Town of Groton and other local community organizations. The Town of Groton Parks and Recreation Department also used the Recreation Field until 2011.

Between 1980 and 2011, the Boys Wing of the Administration Building was leased to Alion Science and Technology (Alion), a private company that provides engineering, research, testing, and development services to the United States Department of Defense. Alion used the Boys Wing for office space.

The parcel identified as 0 Oral School Road has been leased by the State of Connecticut to Reliance Fire Department, Incorporated. The portion of this parcel that is part of the Site has been used by the Old Mystic Fire Department to conduct fire-fighting training exercises.

#### 2.5.2 Historical Wastewater Discharges

Prior to connecting to the municipal sewer system, wastewater generated at the Site was reportedly discharged to a series of filter beds located south-southeast of the Site on the State of Connecticut property maintained by DEEP. The filter beds were reportedly constructed along with a chlorine building and two holding ponds at this location. The time of the last discharge to this system and the first discharge to the Town of Groton wastewater treatment system is unknown.



### **3. ENVIRONMENTAL SETTING**

#### **3.1 Topography**

The Site is located on a plateau that offers expansive views of the Mystic River to the east. Based on a review of the USGS 7.5-Minute Series Topographic Map of the Old Mystic and Mystic Connecticut Quadrangles, the Site is situated at an elevation of approximately 160 feet above mean sea level (USGS, 1983 and 1984, photo-revised 1989 and 1996). The ground elevations at the Site are shown in Drawing 2-1. East and southeast of the site buildings, the property slopes toward the Mystic River to the east. South and southwest of the site buildings, the property slopes toward the south. The western portion of the property slopes in general toward the south.

#### **3.2 Surface Water and Drainage**

The Mystic Oral School Pond, encompassing an area of approximately 0.5 acres, is located on the northern portion of the Site. The nearest off-site surface water body is the Mystic River, located approximately 0.3 miles east of the Site. The Mystic River flows into Long Island Sound.

Site drainage features include a combination of catch basins, dry wells, and parking lot leak-offs. Catch basins are present in the parking area surrounding the Pratt Building. These catch basins discharge to an outfall located south of the Pratt Building parking lot. Surface water runoff from the other parking lots is conveyed onto the surrounding ground surface via parking lot leak-offs. Roof drainage from several site buildings is directed toward drywells.

#### **3.3 Wetlands/Watercourses**

According to the United States Fish and Wildlife Service Wetlands Map, there are no mapped wetlands on the Site. The Mystic Oral School Pond located on the Site is identified as a freshwater pond.

#### **3.4 Floodplain**

Based on the Flood Insurance Rate Maps (FIRM), New London County, Map Numbers 09011C0388G, 09011C0388G, and 09011C0526G, effective July 18, 2011, and prepared by the Federal Emergency Management Agency, the Site is located in an area outside of the 0.2 percent annual chance floodplain.



### 3.5 **Groundwater Quality**

Based upon a review of the most recent update to the Geographic Information System (GIS) groundwater quality data layer provided by DEEP (2012), and the *Water Quality Standards* published by the DEEP Water Management Bureau (CT DEEP, 1996, revised 2011), groundwater in the vicinity of the Site has a classification of “GA”. Groundwater with a GA classification is defined as existing private and potential public or private supplies of water suitable for drinking without treatment, and baseflow for hydraulically connected surface water bodies.

### 3.6 **Surface Water Quality**

Based upon a review of the most recent update to the GIS surface water quality data layer provided by DEEP in 2012, and the *Water Quality Standards*, published by the CT DEEP Water Management Bureau (1996, revised 2011), the Mystic Oral School Pond located on the Site has a water quality classification of “A”. Designated uses for Class A water include habitat for fish and other aquatic life and wildlife, potential drinking water supplies, recreation, navigation, and water supply for industry and agriculture. The Mystic River located east of the Site has a water quality classification of “SB”. Designated uses for Class SB waters are habitat for marine fish and aquatic life and wildlife, commercial shellfish harvesting, recreation, industrial water supply, and navigation.

### 3.7 **Surficial and Unconsolidated Geology**

Information regarding the surficial and unconsolidated geology in the vicinity of the Site was obtained from a review of the Quarternary Geologic Map of Connecticut and Long Island Sound Basin (Stone, et al, 2005) and the DEEP GIS data layer for surficial materials provided by DEEP in 2003. This information was also obtained from observations made during the Phase II subsurface investigation activities. Unconsolidated surficial geologic deposits near the Site are comprised of glacial ice-laid deposits described as thin till. The till consists of non-sorted, generally non-stratified mixtures of grain-sizes ranging from clay to large boulders. Sands and silts compose the majority of the till matrix. As presented in Section 6.2, soils encountered during the Phase II investigation activities included very fine-grained to fine-grained sands with trace amounts of silt and gravel, and are consistent with the published information regarding unconsolidated materials near the Site.

### 3.8 **Bedrock Geology**

Based on a review of the most recent update to the GIS bedrock data layer provided by DEEP in 2003, and the *Geologic Map of the Old Mystic Quadrangle, Connecticut* (Rodgers, 1985),



bedrock beneath the Site and surrounding area is mapped as three different formations: the Plainfield Formation, the Hope Valley Alaskite Gneiss, and the Mamacoke Formation. The Plainfield Formation is described as interlayered thinly bedded quartzite, mica schist, and dark-gray gneiss. The Hope Valley Alaskite Gneiss is described as a light-pink to gray, medium to coarse-grained granitic gneiss. The Mamacoke Formation is described as an interlayered light to dark gray medium-grained gneiss.

Bedrock was observed to outcrop at several locations at the Site. Moreover, blasting was reportedly needed to remove bedrock so that the driveway southeast of the Boys Wing could be constructed and so that the underground storage tank (UST) adjacent to the Pratt Building could be installed (LEA, 2013). Based on the results of the Phase II subsurface investigation, bedrock is present beneath other areas of the Site at less than approximately 15 feet below grade (fbg).

### 3.9 **Hydrogeology**

During the Phase II subsurface investigation conducted at the Site, groundwater was encountered in overburden monitoring wells at a depth of approximately 10 fbg (LEA, 2013). Based on the published topographic maps referenced in Section 5.1, and on observations of the topography made by LEA personnel at the Site, groundwater for the eastern extent of the Site is believed to flow to the east toward the Mystic River. With the exception of the western portion of the property, groundwater is otherwise expected to flow toward the southeast toward the Mystic River. For the western portion of the Site, groundwater is expected to flow toward the south and southwest to a tributary of the Mystic River located west of Oral School Road.

According to the *Atlas of Public Water Supply Sources and Drainage Basins of Connecticut, Bulletin Number 4* (DEEP, 1982), no public water supply wells are located within an approximate one-mile radius of the Site. Based upon a review of the most recent update to the GIS aquifer protection data layer provided by DEEP in 2013, there are no aquifer protection areas in the vicinity of the Site.



## **4. PRELIMINARY CONCEPTUAL SITE MODEL**

### **4.1 Areas of Concern**

To effectively evaluate the potential for contamination to exist at the Site, it is necessary to develop a preliminary CSM that describes the conditions and processes at the Site that are likely to influence contaminant fate and transport. The CSM is fundamental to the site assessment process. The CSM qualitatively identifies the various potential contaminant sources, release mechanisms, and migration pathways for contaminants which may be present at the Site.

Based on an evaluation of information obtained during the Phase I ESA (LEA, 2013), a preliminary, site-specific conceptual model that described potential release locations and mechanisms, contaminant fate and transport characteristics, and potential contaminant migration pathways was developed. The intent of the CSM is to effectively identify the characteristics and processes at the Site that have or had the potential to result in a release to the environment, describe the contaminant characteristics and subsurface conditions that are likely to influence contaminant fate and transport, and explain the observed distribution pattern of contaminants in the subsurface. Such an understanding of the site-specific characteristics was necessary to develop an effective investigation strategy in which samples would be collected from the appropriate media and at the appropriate locations and depths where a release would most likely be detected. The preliminary CSM that was developed for the Site is provided in Table 4-1.

Table 4-1 provides a detailed description of the suspected release mechanisms, contaminant migration pathways, potentially affected environmental media, and constituents of concern for each AOC at the Site. Based on the investigation into the documented history of the Site and observations made during a site reconnaissance, seventeen AOCs have been identified for the Site. The approximate locations of the AOCs are shown in Drawing 4-1.

The most significant of the AOCs include the existing and former USTs installed at the Site. Information currently available indicates that releases have occurred to soil at one or more of these AOCs. While response actions have been taken to address the reported releases, assessment was deemed to be needed to identify the extent of contamination in these AOCs. Also, an assessment of soil and groundwater was deemed to be needed to identify whether or not a release had occurred in other AOCs. The AOCs shown in Drawing 4-1 represent the primary locations for which evaluation of soil and/or groundwater quality will be necessary to assess the nature and extent of any releases that are known to have occurred or that might have occurred at the Site. The preliminary CSM for each AOC is described briefly below.



#### **4.2 AOC 1 Recreation Field**

The Recreation Field located in the northern portion of the Site was used historically to grow crops. This area of the Site was reportedly the location of several small buildings that were associated with farming activities (LEA, 2013). The field has also been used as a baseball diamond and a football field. Historically, fill material was placed in the area of this field to maintain its playing condition (LEA, 2013).

Contaminants of concern within this AOC include pesticides and herbicides that may have been applied when the field was used to grow crops. Other constituents of concern include contaminants that may have been included in fill material that was placed in this area. These additional constituents include volatile organic compounds (VOCs), polynuclear aromatic hydrocarbons (PAHs), petroleum hydrocarbons, polychlorinated biphenyls (PCBs), and metals.

#### **4.3 AOC 2 Fire Department Training Area and Area of Fill**

The 0 Oral School Road parcel located on the western portion of the Site is the former location of the Cook's House. This parcel is currently used as a fire fighting training center. The former Cook's House was destroyed in a fire during fire fighting exercises.

In addition, fill material was placed in this area of the Site. Potential sources of contamination include fuels that may have been used as an ignition source for fire fighting training. In addition, potential sources of contamination include contaminants that may have been released to the ground due to the incomplete combustion of building materials. These sources also include the placement of any contaminated fill material used to raise the grade in this area of the Site. Constituents of concern include VOCs, PAHs, petroleum hydrocarbons, PCBs, and metals.

#### **4.4 AOC 3 Solid Waste Disposal Area**

The area located north of the entrance to the Pratt Building has been used as a disposal area for scrap metal, wood, asphalt, bricks, and other solid waste. Constituents of concern include VOCs, PAHs, petroleum hydrocarbons, PCBs, metals, pesticides, and herbicides.

#### **4.5 AOC 4 Former Oiled Gravel Driveway**

The driveway located north of the Girls Wing was formerly identified as an "Existing Oiled Gravel Driveway." The area of the driveway may have been impacted by the oil placed on the driveway. The contaminants of concern for this AOC include PAHs, petroleum hydrocarbons, PCBs, and metals.



#### **4.6 AOC 5 Former and Existing Underground Storage Tanks**

A number of USTs have been used at the Site to store heating oil. One heating oil UST has been abandoned in-place and four other heating oil USTs have been removed from the Site. In addition, one UST formerly used to store gasoline was removed from the Site. A diesel fuel UST associated with the Emergency Generator was also removed from the Site. Existing USTs at the Site include three 10,000-gallon USTs used to store heating oil.

Releases of petroleum hydrocarbons associated with USTs at the Site have previously been reported. While the laboratory analytical data for samples collected following response actions taken to address these releases indicate that the impacts have been cleaned-up, there may have been other UST releases that have not been addressed. Constituents of concern include VOCs, PAHs, petroleum hydrocarbons, and metals.

#### **4.7 AOC 6 Aboveground Storage Tanks**

There are two existing 275-gallon heating oil aboveground storage tanks (ASTs) maintained at the Site. One AST is located in the basement of the Rainbow House, and the other is located in the Maintenance Garage. The concrete floors beneath each tank were observed to be stained with oil. Contaminants of concern include VOCs, PAHs, petroleum hydrocarbons, and metals.

#### **4.8 AOC 7 Perimeter of Existing Buildings**

The use of pesticides and herbicides to control pests and weeds is a common practice. Heavy application of pesticides and herbicides at State-owned facilities is known to have occurred. At the Site, these chemicals would have typically been applied to the ground surface along the perimeter of buildings. Given the age of the Site buildings and apparent extended use of pesticides and herbicides, the possibility of contamination in the shallow soils exists as a result of pesticide and herbicide application. Constituents of concern include pesticides and herbicides.

Also, given the age of the site buildings it is possible that lead-based paint was applied to the exterior of the buildings. Any lead-based paint that leached from weathered window frames or other exterior wood building components, or that peeled from exterior concrete block, may have resulted in the release of lead to shallow soil. Evidence that paint had leached from wooden window frames was visually observed during the Phase I ESA activities (LEA, 2013). Thus, lead is a constituent of concern.



#### 4.9 **AOC 8 Transformers**

Four exterior, wet-type electrical transformers were observed during the site reconnaissance. The transformers are situated upon concrete pads. No stains were observed on the concrete pads. Potential release mechanisms include spills of dielectric fluid to the concrete pad and to the surrounding soil. The constituents of concern include petroleum hydrocarbons and PCBs.

#### 4.10 **AOC 9 Crouter Building**

The Crouter Building was used for classroom space, a carpentry shop, a paint room/spray paint booth, an internal combustion engine laboratory, and a gymnasium. The building is currently used to store equipment and materials. Materials stored in the building include empty containers of hydrochloric acid. Areas of the floor within the internal combustion engine laboratory were observed to be stained. Potential transport mechanisms include the migration of spilled materials through the concrete floor. The contaminants of concern include VOCs, PAHs, petroleum hydrocarbons, and metals.

#### 4.11 **AOC 10 Administration Building and Girls Wing Boiler Rooms**

A release of heating oil was reported to have occurred within the boiler room of the Administration Building. The release resulted in the migration of heating oil across the floor into the sump. The bottom of the sump is at an elevation below the water table at the Site and groundwater is present in this sump. In addition, boiler blow-down water that is discharged on a daily basis to the sump was historically discharged through the concrete floor of this room. Heating oil released to the concrete floor of the boiler room may have migrated through the floor and impacted underlying soil. In addition, boiler blow-down water released directly through the concrete floor may have impacted underlying soil.

The boiler within the basement of the Girls Wing provides steam and hot water throughout this building. The boiler is fueled using No. 4 heating oil, but had previously been fueled using No. 6 heating oil and pre-heaters. Originally, the boiler was fueled using coal. A coal chute was located along the boiler room east wall.

The constituents of concern include VOCs, PAHs, petroleum hydrocarbons, and metals.

#### 4.12 **AOC 11 Administration Building Storage Rooms and Photography Lab**

The storage rooms within the Administration Building include a janitor room. The janitor room was observed to contain a number of chemical cleaning products. The floor of the janitor room



was observed to be stained. The constituents of concern include VOCs, PAHs, petroleum hydrocarbons, and metals.

The photography laboratory located on the ground floor of the Boys Wing was observed to be constructed of cinder block. The floor within this laboratory appeared to be in relatively good condition. No staining was observed. A drain located within this room was reported to be connected to the on-site wastewater discharge system. Any chemicals that were spilled to the floor of the laboratory may have migrated through the concrete or around the floor drain piping. The constituents of concern include VOCs, metals, and cyanide.

#### **4.13 AOC 12 Hydraulic Elevators**

Two hydraulically-powered elevators exist within the Administration Building. A passenger elevator is located within the central part of the Administration Building. A freight elevator is located adjacent to the loading dock within this building and was formerly used to deliver goods to the kitchen located on the second floor. In addition, one pulley-operated elevator is located within the boiler room of the Administration Building. The concrete floor was stained near the hydraulic reservoir of the freight elevator. The constituents of concern include VOCs, PAHs, petroleum hydrocarbons, PCBs, and metals.

#### **4.14 AOC 13 Emergency Generator**

The reported release of approximately 150 to 200 gallons of diesel oil to the ground in the area of the Emergency Generator may have impacted subsurface soil. In addition, there may have been other releases of diesel oil from the UST formerly located in this AOC. The diesel oil may have been released directly to the soil from a leak in the UST or subsurface piping. Oil released to the ground may have migrated through shallow soil and impacted subsurface soils. The constituents of concern include VOCs, PAHs, metals, and petroleum hydrocarbons.

#### **4.15 AOC 14 Maintenance Garage / Storage Areas**

A heating oil furnace and associated 275-gallon heating oil AST are located along the southern wall of the Maintenance Garage. Gasoline is stored in the garage. The garage is used to perform routine maintenance on power and other equipment. The Rainbow House Garage represents an AOC given the age of the structure and the likely use of the garage for similar purposes.

Several containers of liquid waste are stored in the Wood Shed. Waste oils and waste gasoline were observed to be stored on a containment pallet in this shed. This liquid waste accumulation area of the Wood Shed represents an AOC. The concrete floor of the Wood Shed was observed to be heavily stained with oil.



The constituents of concern include VOCs, PAHs, petroleum hydrocarbons, PCBs, and metals.

#### **4.16 AOC 15 Pratt Building Mechanical Rooms**

The Pratt Building mechanical rooms include the boiler room and the pool chemical supply room. The floor of the boiler room was observed to be stained in several areas. The pool chemical supply room was formerly used to add chlorine to circulated pool water and to back-flush the pool water. The floor of this room was also observed to be stained. The staining that was observed in the mechanical rooms is typical for the functions served by these rooms. The constituents of concern include VOCs, PAHs, petroleum hydrocarbons, and metals.

#### **4.17 AOC 16 Former Site Features**

The former site features include the rubbish burner and the two buildings identified as a shop and a garage formerly located north of the driveway/parking area that is north of the Administration Building. Based on the apparent use of these former features, it is possible that chemicals may have been released to the ground in this area of the Site. Potential release mechanisms include spills from equipment or containers onto the ground surface. The constituents of concern include VOCs, PAHs, petroleum hydrocarbons, PCBs, and metals.

#### **4.18 AOC 17 Loading Docks**

The loading docks at the Site were used to receive goods and materials, including small quantities of chemicals, delivered to the Administration Building and the Durant Building. The loading docks did not appear to be stained. Any chemicals that may have been spilled on the loading docks could have flowed onto the adjoining ground surface and could have migrated through the paved surface to underlying soils. The constituents of concern include VOCs, PAHs, petroleum hydrocarbons, and metals.

The scope of the Phase II subsurface investigation activities conducted by LEA was based upon this preliminary CSM. This scope of work is summarized in Table 4-1 and is described in more detail in the following sections of this report.



## **5. SUBSURFACE INVESTIGATION ACTIVITIES**

### **5.1 Approach**

The Phase II subsurface investigation activities were focused on collecting data from those areas of the Site where historical releases had been identified through the Phase I ESA process, as well as those AOCs where releases were likely to have occurred based on the CSM. Accordingly, the field sampling program was designed to characterize the nature and extent of contamination that was identified in environmental media, as well as to evaluate whether a release of petroleum hydrocarbons and/or hazardous substances occurred in areas not previously investigated. In addition, the groundwater investigation was designed to provide additional information on groundwater levels beneath the Site.

The CSM as well as field observations were used to establish an effective investigation strategy to meet the sampling design objectives. Sampling locations were biased to areas where releases were identified or where releases were most likely to have occurred.

### **5.2 Investigation Methods**

#### **5.2.1 Geophysical Survey**

Prior to initiating sampling activities, LEA subcontracted Corbuilt LLC (Corbuilt) of Canterbury, Connecticut to: (i) locate subsurface utilities at the Site; and (ii) locate any USTs and appurtenant piping at the Site. Corbuilt used radio frequency and ground-penetrating radar (GPR) procedures to locate these features. In addition, Corbuilt used the subsurface geophysical surveying techniques to identify whether or not proposed sampling locations possibly conflict with underground utilities. The surveyed locations of the USTs were found to align with those locations identified in various drawings obtained from the Site and used to establish the Site Plan provided as Drawing 2-1. The general locations of the USTs existing within AOC 5 at the Site are shown in this drawing.

#### **5.2.2 Soil Investigation**

LEA field personnel conducted soil boring activities from January 24, 2013 through January 30, 2013. During this time, a total of 46 soil borings were advanced at the Site. The soil borings are identified as shown in Table 5-1 and Drawing 5-1. It is noted that a number of soil borings that were initially planned were not completed because the boring locations were found to be inaccessible or because subsequent evaluation of available information resulted in the finding



that the soil borings were not needed for this phase of investigation. Accordingly, the soil borings are not numbered consecutively.

LEA field personnel also advanced three soil borings that were subsequently completed as monitoring wells. These soil borings are identified as MW-01, MW-02, and MW-03 in Table 5-1 and Drawing 5-1. Also, LEA field personnel collected surface soil samples at 15 locations at the Site. Soils at a number of the planned sample locations were not collected because subsequent evaluation of available information resulted in the finding that the samples were not needed for this phase of investigation. Thus, the soil sample designations shown in Table 5-1 and Drawing 5-1 are not numbered consecutively.

The rationale for advancing the soil borings and collecting soil samples from the locations shown in Drawing 5-1 is included in the CSM provided as Table 4-1. In general, the soil borings were advanced using LEA's Geoprobe® Model 6610DT track-mounted direct-push probe, or LEA's Geoprobe® Model 5400 truck-mounted, direct-push probe in accordance with LEA's *Standard Operating Procedure for Geoprobe® Probing and Sampling*. Copies of LEA's Standard Operating Procedures are provided in Appendix A. For the locations that could not be accessed using this equipment, the soil borings were advanced manually using a hand auger. The soil borings were advanced to the proposed depths ranging from approximately 2 fbg to 16 fbg, or to the depth at which the Geoprobe® tools or hand augers could not be advanced further due to refusal.

During the advancement of each soil boring and the collection of each soil sample, field personnel classified and logged a description of the materials encountered. The materials were classified using a modified Burmeister soil classification system in accordance with LEA's *Standard Operating Procedure for Geologic Logging of Unconsolidated Sedimentary Materials* (Appendix A). The soils were also examined for evidence of a release, such as staining, odors, or visible separate-phase petroleum products. In addition the soils were screened in the field for the presence of VOCs using a photoionization detector (PID). Copies of the Geologic Boring Logs, which contain descriptions of the subsurface materials encountered during the soil boring process, are provided in Appendix B.

During the soil boring process, discrete soil samples were collected from each two-foot interval encountered. The surface soil samples were collected from a depth of 0 to 6 inches below the ground. Aliquots of soil from each interval sampled were collected in appropriate containers for potential laboratory analyses in accordance with LEA's *Standard Operating Procedure for Soil Sampling* (Appendix A). Soils collected specifically for laboratory analysis for VOCs were collected and preserved in accordance with LEA's *Standard Operating Procedure for Collecting*



*and Preserving Soil and Sediment Samples for Laboratory Determination of Volatile Organic Compounds (Appendix A).*

Each soil sample was placed into laboratory-supplied sample containers for possible analyses. These samples were submitted to Con-Test Analytical Laboratory of East Longmeadow, Massachusetts (Con-Test) along with the corresponding quality assurance/quality control (QA/QC) samples for possible analysis for one or more of the following analytical parameters using the DEEP Reasonable Confidence Protocol (RCP) versions of the following analytical methods: VOCs using SW-846 EPA Method 8260C; PAHs using SW-846 EPA Method 8270D; PCBs using SW-846 EPA Method 8082; extractable total petroleum hydrocarbons (ETPH) using the Connecticut-approved ETPH method; pesticides using SW-846 EPA Method 8081; and total RCRA-8 metals (arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver) plus copper, nickel, and zinc using the appropriate EPA SW-846 6000 and 7000 series of methods.

LEA instructed Con-Test to analyze select samples based on observations made in the field, including PID measurements, and on the potential constituents of concern associated with the area being assessed. Con-Test was instructed to analyze 89 of the 133 soil samples submitted to the laboratory. The sampling and analytical information for each soil sample collected is summarized in Table 5-1.

### 5.2.3 Groundwater Investigation

On January 30, 2013, LEA field personnel installed a monitoring well in each of the soil borings identified as MW-001, MW-002, and MW-003 (Drawing 5-1). The soil boring for monitoring well MW-001 was advanced in an apparent downgradient area accessible within AOC 2, *Fire Department Training Area and Area of Fill*. The soil boring for monitoring well MW-002 was advanced at the northern extent of the Administration Building and Crouter Building parking lot within AOC 16, *Former Rubbish Burner / Shop Garage*. The soil boring for monitoring well MW-003 was advanced in the paved driveway/parking area topographically below the Emergency Generator (AOC 13).

The monitoring well locations are shown in Drawing 5-1. The monitoring wells were installed to provide groundwater monitoring points within the unconsolidated and saturated overburden materials at the most downgradient locations accessible at the Site. Overburden monitoring wells could not be installed in certain other areas of the Site because groundwater was not encountered above bedrock at these locations.

During the soil boring process for the monitoring wells installed at the Site, groundwater was encountered at depths of approximately 5 to 10 fbg. The groundwater monitoring wells were



constructed in accordance with LEA's *Standard Operating Procedure for Installing and Developing Monitoring Wells and Piezometers* (Appendix A). Each well was constructed such that the screened interval of the well spanned the groundwater table to evaluate the potential presence of any mobile, light non-aqueous phase liquid (NAPL).

Given the nature of the subsurface materials and the method used to advance the soil borings, the wells were constructed using either a five-foot or ten-foot section of polyvinyl chloride (PVC) screen and an appropriate length of PVC riser. Monitoring well MW-01 was constructed using a ten-foot section of 0.010-slot, 1-inch diameter PVC screen thread-coupled to an appropriate length of PVC riser. Monitoring well MW-02 was constructed using a five-foot section of 0.010-slot, 1.5-inch diameter pre-packed PVC screen thread-coupled to an appropriate length of PVC riser. Monitoring well MW-03 was constructed using a ten-foot section of 0.010-slot, 1-inch diameter PVC screen thread-coupled to an appropriate length of PVC riser.

The annular space of each borehole was backfilled with No. 0 sand to approximately two feet above the screened interval. The annulus above the sand filter pack of each well was backfilled with bentonite. Monitoring well MW-01 was completed within a protective standpipe and monitoring wells MW-02 and MW-03 were completed within a road box set flush with the ground surface. The monitoring well construction details are provided in the Well Completion Logs presented in Appendix C.

On February 2, 2013, LEA field personnel developed the newly installed monitoring wells to remove fine sediment from the wells, the screen openings, and filter-pack material, and to facilitate groundwater flow to the wells. On February 4, 2013, LEA personnel recorded depth to groundwater measurements at each well. In addition, LEA field personnel collected groundwater samples from the monitoring wells installed at the Site. The groundwater samples were collected in accordance with LEA's *Standard Operating Procedure for Low Flow (Low-Stress) Liquid Sample Collection and Field Analysis* (Appendix A). In addition, a grab sample was obtained of the groundwater within the sump located in the boiler room of the Administration Building.

All of the groundwater samples collected were submitted to Con-Test, along with the corresponding QA/QC samples, for analysis for one or more of the following analytical parameters using the DEEP RCP versions of the following analytical methods: VOCs using EPA SW-846 Method 8260C; PAHs using EPA SW-846 Method 8270D; ETPH using the Connecticut-approved ETPH method; and total RCRA-8 metals (arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver) plus copper, nickel, and zinc using the appropriate EPA SW-846 6000 and 7000 series of methods. Given that the reporting limits for several PAH compounds are typically above applicable RSR criteria, groundwater samples were



also analyzed via EPA SW-846 Method 8270D using the selective ion monitoring (SIM) method for PAHs to obtain a lower reporting limit. The sampling and analytical information for each groundwater sample is summarized in Table 5-2.

#### 5.2.4 Quality Assurance/Quality Control Sampling

During the Phase II subsurface investigation activities, LEA field personnel submitted QA/QC samples to Con-Test for laboratory analyses. The QA/QC samples were collected in accordance with LEA's *Standard Operating Procedure for Quality Assurance/Quality Control Procedures for Field Activities* (Appendix A). The QA/QC samples included eight equipment rinsate blank samples associated with soil sampling activities conducted between January 24 and 30, 2013, and one equipment rinsate blank sample associated with groundwater sampling activities conducted on February 4, 2013. The QA/QC samples also included four trip blank samples associated with soil sampling activities conducted on January 24, 25, 28, and 30, and one trip blank sample associated with groundwater sampling activities conducted on February 4, 2013.

The QA/QC samples also included field duplicate samples. One pair of field duplicate soil samples was collected as follows:

- On January 24, 2013 from a depth of 0 to 2 fbg at soil boring SB-035;
- On January 25, 2013 from a depth of 0 to 2.5 fbg at soil boring SB-042;
- On January 25, 2013 from a depth of 0 to 2 fbg at soil boring SB-043;
- On January 28, 2013 from a depth of 0 to 2 fbg at soil boring SB-045;
- On January 28, 2013 from a depth of 0 to 2 fbg at soil boring SB-059; and
- On January 29, 2013 from a depth of 0 to 2 fbg at soil boring SB-038.

In addition, one pair of field duplicate groundwater samples was collected from monitoring well MW-03 on February 4, 2013. The sampling and analytical information for each QA/QC sample is summarized in Table 5-3.

#### 5.2.5 Field Survey

On January 29 and 30, 2013, LEA personnel performed a field survey to locate each of the soil boring, monitoring well, and surface soil sample locations relative to the horizontal and vertical datum established for the Site. The field survey included confirming and recording the locations of identified USTs located at the Site. The information from this survey was used to update the



Site Plan provided as Drawing 2-1. The field survey also included recording the elevation of the top of the PVC riser of each newly installed monitoring well relative to the North American Vertical Datum (NAVD, 1988). This information was used to calculate the elevation of groundwater beneath the Site using the depth-to-groundwater measurements recorded on February 4, 2013.



## **6. INVESTIGATION RESULTS**

### **6.1 Geophysical Survey**

Based on the results of the radio frequency and GPR survey performed by Corbuilt, the limits of the three 10,000-gallon USTs located at the Site were confirmed. The approximate limits of the USTs are shown in Drawing 2-1. Also, based on the results of the radio frequency and GPR survey, various utilities were found to be located as marked in the field by utility contractors. No other USTs, subsurface structures, or utility lines were found to be located at the Site where the subsurface investigation activities were performed.

### **6.2 Soil and Groundwater Characteristics**

In general, the subsurface materials encountered during the advancement of soil borings were observed to be consistent with the published information regarding unconsolidated materials near the Site. As described in Section 3.7, unconsolidated surficial geologic deposits near the Site are comprised of till, consisting of non-sorted, generally non-stratified mixtures of grain-sizes ranging from clay to large boulders. Sands and silts compose the majority of the till matrix. Based on visual observations completed during the advancement of the soil borings, the Site is underlain by very fine-grained to fine-grained sands with trace amounts of silt and gravel. The subsurface materials were typically observed to be loose and moist. Saturated soils indicative of groundwater were encountered in borings at depths ranging from approximately 4 fbg (MW-03 and SB-001) to 10 fbg (SB-044).

In addition, artifacts of fill were observed in samples obtained at a number of soil boring locations (Appendix B). These artifacts included ash and pieces of asphalt and coal. Ash was found to be present in soil less than 2 fbg at monitoring well MW-02. Soil boring MW-02 was advanced within AOC 16 *Former Rubbish Burner / Shop / Garage*. Pieces of asphalt were found in soil collected at a depth of approximately 15 fbg at soil boring SB-043. This soil boring was advanced within AOC 3, *Solid Waste Disposal Area*, located north of the entrance to the Pratt Building. Pieces of coal were observed to be present in soil collected at depths ranging from 4 to 8 fbg at soil boring SB-063. This soil boring was advanced adjacent to the smokestack located outside of the Administration Building boiler room and associated with AOC 10, *Administration Building and Girls Wing Boiler Rooms*.

During the subsurface investigation activities, the advancement of the Geoprobe<sup>®</sup> direct-push equipment was met with refusal at various soil boring locations across the Site, generally between depths of approximately 5 to 12 fbg. In addition, the advancement of hand augers was



met with refusal at a number of soil boring locations, generally between depths of 1 to 2 fbg. It is believed that refusal of the of the Geoprobe<sup>®</sup> direct-push equipment was generally due to the presence of bedrock at or near the depth of refusal. While the depth to rock was not confirmed by coring into the bedrock, it is expected that bedrock occurs at these depths given the site topographic setting and the observed bedrock that outcrops at various locations at the Site.

A PID was used in the field to screen soil samples obtained from each soil boring. Notable PID readings defined as those above 1 parts per million (ppm) were not observed for any of the soil samples collected at the Site. The PID readings recorded on the Geologic Boring Logs provided in Appendix B indicate the total concentration of ionizable VOCs measured relative to an isobutylene standard of 100 ppm.

On February 4, 2013, the depth to groundwater was recorded for monitoring wells installed at the Site. Evidence of NAPL was not observed in any of the wells. The depth-to-groundwater was measured to be 10.72 feet below the top of casing at well MW-01, 5.19 feet below the top of casing at well MW-02, and 5.43 feet below the top of casing at well MW-03. Groundwater elevations were calculated by subtracting the depth-to-groundwater measurement from the surveyed top of casing elevation at each monitoring well. As calculated, groundwater is present beneath the Site at monitoring well MW-01 at an elevation of 146.86; at monitoring well MW-02 at an elevation of 151.68; and at monitoring well MW-03 at an elevation of 151.45. A summary of the depth-to-water measurements and groundwater elevations is provided in Table 6-1.

## 6.3 Soil Results

### 6.3.1 Overview

A summary of constituents detected in soil is provided in Table 6-2, and a summary of all laboratory analytical results for the soil samples collected at the Site is provided in Table 6-3. Copies of the Con-Test analytical reports for all soil samples and associated QA/QC samples are provided in Appendix D. An overview of the constituents detected in soil samples is provided by constituent group, as follows.

#### *Volatile Organic Compounds*

Several VOCs were detected in 5 of 69 soil samples submitted for VOC analysis. The VOCs detected at the Site included those that are primarily associated with petroleum products, including: ethylbenzene; toluene; *o*-xylene, *m*- & *p*-xylene; 1,2,4-trimethylbenzene; and beta-methylnaphthalene. One or more of these VOCs were detected in soil samples collected from soil borings SB-001, SB-002, SB-007, and SB-038 (Table 6-2).



In addition, acetone was detected in the sample collected at a depth of 0 to 0.5 fbg from soil boring SB-002 and in the surface soil sample collected at a depth of 0 to 0.5 fbg at location SS-16. Acetone was detected in both of these samples at a concentration of 22,000 micrograms per kilogram ( $\mu\text{g/kg}$ ). As described below in Section 7.1, there is no known source of acetone at the Site. However, acetone is a known laboratory contaminant. Given that the two samples were the only samples preserved by the laboratory, and no other field samples were reported to contain acetone, the presence of acetone in these two samples is suspect and is believed to be attributed to laboratory contamination.

### *Polynuclear Aromatic Hydrocarbons*

Several compounds were detected in 35 of 81 soil samples submitted for analysis for PAHs. The PAH compounds detected in soil at the Site are commonly associated with petroleum, coal, and tar products and are also formed during the incomplete combustion of petroleum fuels. The PAHs most commonly detected in soil at the Site included: benzo(a)anthracene; benzo(a)pyrene; benzo(b)fluoranthene; indeno(1,2,3-c,d)pyrene; chrysene; phenanthrene; fluoranthene; and pyrene. One or more of these compounds were detected in soil samples collected from soil borings MW-02, SB-003, SB-007, SB-008, SB-014, SB-015, SB-022, SB-023, SB-028, SB-034, SB-035, SB-038, SB-040, SB-041, SB-042, SB-045, SB-052, SB-053, SB-058, and SB-063 (Table 6-2). The highest concentrations of PAHs were reported for the samples collected at a depth of: 0.5 to 2 fbg from soil boring SB-008; 0 to 0.5 fbg from soil boring SB-023; 0 to 0.5 fbg from soil boring SB-040; 0 to 0.5 fbg from sample location SS-08; and 0 to 0.5 fbg from sample location SS-09.

### *Extractable Total Petroleum Hydrocarbons*

Petroleum hydrocarbons, reported as ETPH, were reported to be present in 61 of 77 soil samples submitted for ETPH analysis and were found to be the most widespread of the organic pollutants in soil at the Site. Petroleum hydrocarbons, reported as ETPH, were detected in several soil samples that were also reported to contain PAHs. The presence of both ETPH and PAHs in soil samples is consistent with a release(s) of petroleum products.

The evaluation of the results for ETPH took into consideration the understanding that the analytical method approved by DEEP to quantify ETPH is known to have inherent interferences that may result in the reporting of low concentrations of ETPH that are not considered to be indicative of the actual ETPH concentration in the sample. To account for these interferences, ETPH concentrations less than 80 milligrams per kilogram ( $\text{mg/kg}$ ) in soil samples and 0.2 milligrams per liter ( $\text{mg/l}$ ) in groundwater samples were not considered to be indicative of a release. This approach to assessing ETPH is supported by the observation that low



concentrations of ETPH (<80 mg/kg) appear randomly in soil samples collected from areas across the Site, with no consistent pattern typically associated with a release (Table 6-2).

#### *Polychlorinated Biphenyls and Pesticides/Herbicides*

Samples collected from 39 locations were analyzed for PCBs. Samples collected from 23 locations were analyzed for pesticides. Samples collected from five locations were analyzed for herbicides. No PCBs or herbicides were detected in any of the soil samples at concentrations above laboratory reporting limits. Pesticides were detected in one soil sample collected at a depth of 0 to 0.5 fbg at soil sample location SS-21. The pesticides that were detected in this sample were limited to chlordane, detected at a concentration of 210 µg/kg, and heptachlor epoxide, detected at a concentration of 39 µg/kg.

#### *Metals and Total Cyanide*

One or more metal constituent was detected in each of the 55 soil samples submitted for metals analysis. Although metals were detected in soil samples collected from locations across the Site, many of the constituents are naturally occurring elements, so their presence in soil is not necessarily indicative of a release. A histogram analysis was performed to differentiate naturally occurring concentrations of metals from those potentially associated with releases. The histogram is a graphical plot of concentration ranges that often resemble bell-shaped curves. Concentrations within the standard bell-shaped portion of the curve are considered to be representative of naturally-occurring conditions. Concentrations outside the naturally occurring range may be indicative of releases. The concentrations of these metals are discussed below by AOC, along with the other constituents detected in soil.

Soil boring SB-059 was advanced to assess whether or not a release had occurred within the Photography Lab of the Administration Building. Total cyanide was detected at a concentration of 1.1 mg/kg in one of the duplicate samples collected from this soil boring. Total cyanide was not detected at a concentration above the laboratory reporting limit in the corresponding duplicate sample.

#### 6.3.2 AOC 1 Recreation Field

Soil borings SB-004, SB-005, and SB-008 were advanced to assess this AOC (Drawing 5-1). A soil sample collected at 0 to 0.5 fbg from soil boring SB-004 was analyzed for VOCs, PAHs, metals, ETPH, and PCBs. Soil samples collected at 0 to 0.5 and 0.5 to 2 fbg from soil borings SB-005 and SB-008 were analyzed for these parameters and for pesticides and herbicides.



A number of PAH compounds were detected in the sample collected at 0.5 to 2 fbg from soil boring SB-008. The concentrations of PAHs detected in this sample were reported to range from 1,300 µg/kg for phenanthrene to 6,200 µg/kg for benzo(b)fluoranthene. Petroleum hydrocarbons, reported as ETPH, were reported for this sample at a concentration of 1,000 mg/kg. An ETPH concentration of 290 mg/kg was reported for the sample collected at 0 to 0.5 fbg from soil boring SB-004.

A number of metals were reported for the samples analyzed. The metals were reported at concentrations believed to be representative of naturally occurring concentrations at the Site. No other constituents of concern were detected in the samples analyzed to assess AOC 1.

### 6.3.3 AOC 2 Fire Department Training Area and Area of Fill

Soil borings SB-001, SB-002, SB-003, and MW-001 were advanced to assess this AOC (Drawing 5-1). Con-Test analyzed soil samples that were collected at 0 to 2 and 4 to 6 fbg from soil boring SB-001; 0 to 0.5 fbg from soil boring SB-002; 0 to 0.5 and 0.5 to 2 fbg from soil boring SB-003; and 2 to 4 and 8 to 10 fbg from soil boring MW-01. These samples were analyzed for VOCs, PAHs, metals, ETPH, and PCBs.

Concentrations of ethylbenzene (2.2 µg/kg), toluene (5.0 µg/kg), *o*-xylene (6.5 µg/kg) and *m*- & *p*-xylenes (12 µg/kg) were reported to be present in the sample collected at 0 to 2 fbg from soil boring SB-001. Acetone was reported at a concentration of 22,000 µg/kg in the soil sample collected at 0 to 0.5 fbg from soil boring SB-002. As noted above in Section 6.3.1, the presence of acetone in this sample is believed to be attributed to laboratory contamination. No other VOCs were detected at concentrations above laboratory reporting limits in the samples analyzed to assess this AOC.

A number of PAH compounds were detected in the sample collected at 0 to 0.5 fbg from soil boring SB-002. The concentrations of PAHs detected in this sample were reported to range from 270 µg/kg for indeno(1,2,3-c,d)pyrene to 630 µg/kg for fluoranthene. A number of PAH compounds were also detected at similar concentrations in the samples collected at 0 to 0.5 and 0.5 to 2 fbg from soil boring SB-003.

Petroleum hydrocarbons, reported as ETPH, were detected in the sample collected at 0 to 0.5 fbg from soil boring SB-002. An ETPH concentration of 81 mg/kg was reported for this sample.

A number of metals were reported for the samples analyzed. Lead was reported at a concentration of 170 mg/kg in the soil sample collected from soil boring MW-01 at 2 to 4 fbg. The reported lead concentration is believed to be above naturally occurring concentrations for



soil at the Site. The other metals concentrations reported for this sample and all metals concentrations reported for the other samples are believed to be representative of naturally occurring concentrations at the Site.

No other constituents of concern were detected in the samples analyzed to assess AOC 1.

#### 6.3.4 AOC 3 Solid Waste Disposal Area

Soil borings SB-040, SB-041, SB-042, and SB-043 were advanced to assess this AOC (Drawing 5-1). Soil samples collected from these soil borings were analyzed for VOCs, PAHs, metals, ETPH, PCBs, and pesticides. No VOCs were detected at concentrations above laboratory reporting limits in any of the samples.

Several PAH compounds were detected in the samples collected at depths up to 2.5 fbg from soil borings SB-040, SB-041, and SB-42 (Table 6-2). The concentrations of a number of PAH compounds were reported to be above 1,000 µg/kg in soil samples collected from each of these borings. The highest concentrations of PAHs in these samples were reported for the sample collected from 0 to 0.5 fbg from soil boring SB-040. This sample was reported to contain benzo(a)anthracene at a concentration of 5,300 µg/kg, fluoranthene at a concentration of 11,000 µg/kg, and pyrene at a concentration of 10,000 µg/kg. An ETPH concentration of 100 mg/kg was reported for this sample. An ETPH concentration of 240 mg/kg was reported for the sample collected at 0.5 to 2 fbg from soil boring SB-040.

A number of metals were reported for the samples analyzed. The metals were reported at concentrations believed to be representative of naturally occurring concentrations at the Site.

No other constituents of concern were detected in the samples analyzed to assess AOC 3.

#### 6.3.5 AOC 4 Former Oiled Gravel Driveway

Soil borings SB-014, SB-015, and SB-016 were advanced to assess this AOC (Drawing 5-1). Soil samples collected at 0 to 2 fbg from these soil borings were analyzed for PAHs, metals, ETPH, and PCBs.

Phenanthrene was detected at a concentration of 200 µg/kg in the soil sample collected from soil boring SB-014 (Table 6-2). In addition, several PAH compounds were detected in the sample collected from soil boring SB-015. The concentrations of a number of PAH compounds detected in this sample were reported to be above 1,000 µg/kg. No PAHs were detected at concentrations above laboratory reporting limits in the sample collected from soil boring SB-016.



An ETPH concentration of 140 mg/kg was reported for the sample collected from soil boring SB-015.

A number of metals were reported for the samples analyzed. The metals were reported at concentrations believed to be representative of naturally occurring concentrations at the Site.

No other constituents of concern were detected in the samples analyzed to assess AOC 4.

#### 6.3.6 AOC 5 Former and Existing Underground Storage Tanks

Soil borings SB-022, SB-032, SB-033, SB-044, and SB-063 were advanced to assess this AOC (Drawing 5-1). Soil samples collected from soil boring SB-044 were not analyzed by Con-Test. However, based on the field examination of the soils collected from this boring, which was advanced in the apparent downgradient direction from the UST installed adjacent to the Pratt Building, there is no evidence of a release to soils at this UST location (Appendix B).

Soil samples collected from soil borings SB-022, SB-032, SB-033, and SB-063 were analyzed for VOCs, PAHs, and ETPH. The surface soil sample collected at 0 to 0.5 fbg from sample location SS-16 was analyzed for VOCs and PAHs.

No constituents were detected in the samples collected from soil borings SB-032 and SB-033. Also, no VOCs were detected at concentrations above laboratory reporting limits in the samples collected from soil borings SB-022 and SB-063. Acetone was detected in the sample collected at 0 to 0.5 fbg from sample location SS-16 at a concentration of 22,000 µg/kg. As noted above in Section 6.3.1, the presence of this compound in soil is believed to be attributed to laboratory contamination.

A number of PAH compounds were detected in the soil samples collected from borings SB-022 and SB-063 (Table 6-2), and in the surface soil sample collected from location SS-16. Soil boring SB-022 was advanced downgradient of the UST that was abandoned-in-place adjacent to the Rainbow House. The highest concentrations of PAHs were reported for the soil sample collected at 0.5 to 2 fbg. The PAH concentrations detected in this sample were reported to be less than 500 µg/kg.

Soil boring SB-063 was advanced downgradient of the former USTs located adjacent to the Administration Building boiler room. This boring was located directly west of the smokestack located outside of the Administration Building. The sample collected at 0 to 2 fbg was reported to contain a number of PAHs ranging in concentrations from 230 µg/kg for benzo(g,h,i)perylene to 1,200 µg/kg for fluoranthene. In addition, some of the same PAHs were detected, generally at



lower concentrations in the soil samples collected at 2 to 4, 4 to 6, and 6 to 8 fbg from soil boring SB-063.

Sample SS-16 was collected in the vicinity of the former gasoline UST within the courtyard of the Administration Building. This sample was reported to contain benzo(b)fluoranthene at a concentration of 210 µg/kg, fluoranthene at a concentration of 250 µg/kg, and pyrene at a concentration of 290 µg/kg.

An ETPH concentration of 82 mg/kg was detected in the sample collected at 0.5 to 2 fbg from soil boring SB-022. An ETPH concentration of 270 mg/kg was detected in the sample collected at 0 to 2 fbg from soil boring SB-063. No other samples were reported to contain petroleum hydrocarbons at concentrations indicative of a release.

#### 6.3.7 AOC 6 Aboveground Storage Tanks

Soil borings SB-039 and SB-054 were advanced to assess this AOC (Drawing 5-1). Soil samples collected at 0 to 2 fbg from these soil borings were analyzed for VOCs, PAHs, and ETPH. No constituents were detected in these samples at concentrations above laboratory reporting limits.

#### 6.3.8 AOC 7 Perimeter of Existing Buildings

Surface soil samples collected at a depth of 0 to 0.5 fbg from locations identified on Drawing 5-1 as SS-13 through SS-21 were analyzed in assessing AOC 7. In addition, the soil sample collected at 0 to 0.5 fbg from soil boring SB-022 and the soil samples collected at 0 to 0.5 and 0.5 to 2 fbg from soil boring SB-023 were analyzed in assessing this AOC. These samples were analyzed for lead and/or pesticides.

Lead was detected in a number of surface soil samples at concentrations that are above naturally occurring concentrations for soil at the Site. Lead was detected at a concentration of 470 mg/kg at sample location SS-14; 260 mg/kg at sample location SS-16; 730 mg/kg at sample location SS-18; and 570 mg/kg at sample location SS-19.

Lead was also reported at a concentration of 610 mg/kg and zinc was reported at a concentration of 160 mg/kg in the soil sample collected at 0 to 0.5 fbg from soil boring SB-023. The other metals concentrations reported for this sample are believed to be representative of naturally occurring concentrations at the Site. The metals concentrations reported for the sample collected at 0.5 to 2 fbg from this boring location are also believed to be representative of naturally occurring concentrations at the Site.



The surface soil sample collected at 0 to 0.5 fbg at sample location SS-21 was reported to contain chlordane at a concentration of 210 µg/kg. This sample was also reported to contain heptachlor epoxide at a concentration of 39 µg/kg. No other pesticides were detected in this sample.

#### 6.3.9 AOC 8 Transformers

The soil samples collected at 0 to 0.5 fbg at locations SS-01, SS-02, SS-03, SS-07, SS-08, and SS-09 were analyzed for PAHs, ETPH, and PCBs in assessing AOC 8. The samples collected from locations SS-01, SS-02, and SS-03 were analyzed to assess whether or not a release may have occurred at the transformer located north of the Whipple Building (Drawing 5-1). Dielectric fluids containing PCBs were historically flushed from this generator (LEA, 2013). The samples collected from locations SS-07, SS-08, and SS-09 were analyzed to assess whether or not a release may have occurred at the transformer located adjacent to the Emergency Generator. Based on visual inspection of the transformer pad located next to the Pratt Building, there did not appear to be any staining on the concrete pad or surrounding pavement. Accordingly, collecting samples to further assess whether a release may have occurred at this transformer was not warranted.

A number of PAHs were reported to be present in each of the samples analyzed. The sample collected from location SS-08 was reported to contain the highest concentrations of PAHs. This sample was reported to contain fluoranthene at a concentration of 22,000 µg/kg; phenanthrene at a concentration of 33,000 µg/kg; and pyrene at a concentration of 14,000 µg/kg.

An ETPH concentration of 450 mg/kg was reported for the sample collected from surface sample location SS-08. Concentrations of ETPH were also reported for the samples collected at locations SS-07 (160 mg/kg) and SS-09 (390 mg/kg), as well as locations SS-02 (120 mg/kg) and SS-03 (180 mg/kg) that were used to assess the transformer located north of the Whipple Building.

Concentrations of PCBs were not detected above laboratory reporting limits in any of the samples.

#### 6.3.10 AOC 9 Crouter Building

Soil borings SB-009, SB-010, SB-011, SB-012, and SB-062 were advanced to assess this AOC (Drawing 5-1). Soil samples collected from these soil borings were analyzed for VOCs, PAHs, ETPH, and metals.

None of the samples were reported to contain VOCs or PAHs at concentrations above laboratory reporting limits. In addition, none of the samples were reported to contain petroleum



hydrocarbons, reported as ETPH, at concentrations indicative of a release. Barium was detected at a concentration of 120 mg/kg and silver was detected at a concentration of 0.57 mg/kg in the soil sample collected at 8 to 10 fbg from soil boring SB-062. This boring was advanced adjacent to the dust collector located on the north side of the Crouter Building. These concentrations are believed to be above naturally occurring concentrations for soil at the Site. Soil boring SB-062 was intended to be completed as a monitoring well, however advancement of the Geoprobe<sup>®</sup> direct-push probe was met with refusal at 12 fbg and groundwater was not encountered above this depth.

While a number of metals were detected in the other samples analyzed to assess this AOC, the reported concentrations are believed to be representative of naturally occurring concentrations at the Site.

#### 6.3.11 AOC 10 Administration Building and Girls Wing Boiler Rooms

Soil borings SB-048, SB-049, SB-050, SB-051, and SB-058 were advanced to assess this AOC (Drawing 5-1). Samples collected at a depth of 0 to 2 fbg from these soil borings were analyzed for PAHs and ETPH. In addition, the sample collected from soil boring SB-051 was analyzed for VOCs, and the sample collected from soil boring SB-058 was analyzed for VOCs and metals.

The samples collected from soil borings SB-051 and SB-058 did not contain VOCs at concentrations above laboratory reporting limits. In addition, with the exception of the sample collected from soil boring SB-058, none of the samples were reported to contain PAHs at concentrations above laboratory reporting limits. Soil boring SB-058 was advanced in the vicinity of the former coal chute associated with the original boiler for the Girls Wing of the Administration Building. The sample collected from this soil boring was reported to contain a number of PAH compounds ranging in concentration from 330 µg/kg for benzo(k)fluoranthene to 1,300 for pyrene (Table 6-2).

Also, petroleum hydrocarbons, reported as ETPH at a concentration of 240 mg/kg, were detected in the soil sample collected from soil boring SB-058. None of the other samples contained petroleum hydrocarbons at concentrations indicative of a release. In addition, a number of metals including copper, lead, and zinc were detected in the soil sample collected from soil boring SB-058 at concentrations that are believed to be above naturally occurring concentrations at the Site.



#### 6.3.12 AOC 11 Administration Building Storage Rooms and Photography Lab

Soil borings SB-052, SB-053, SB-059, and SB-061 were advanced to assess this AOC (Drawing 5-1). Samples collected at a depth up to 2 fbg from these soil borings were analyzed for VOCs, PAHs, and ETPH. In addition, the soil samples collected from borings SB-059 and SB-061 were analyzed for metals and total cyanide.

No constituents were detected in the sample collected from soil boring SB-052. In addition, none of the other samples were reported to contain VOCs at concentrations above laboratory reporting limits. Pyrene was detected at a concentration of 180 µg/kg in the sample collected from soil boring SB-053. No other PAHs were detected in this sample and no PAHs were detected in the other samples at concentrations above laboratory reporting limits.

Petroleum hydrocarbons, reported as EPTH, were detected in one of the duplicate soil samples collected from soil boring SB-059. The EPTH concentration detected in this sample was 140 mg/kg. The EPTH concentration detected in the corresponding duplicate sample was reported to be 30 mg/kg. The EPTH concentration detected in the sample collected from soil boring SB-053 was reported to be 12 mg/kg. The reported EPTH concentrations are below a concentration of 80 mg/kg, used to indicate a release. The sample collected from soil boring SB-061 did not contain petroleum hydrocarbons, reported as EPTH, at a concentration above the laboratory reporting limit.

The duplicate sample collected from soil boring SB-059 reported to contain petroleum hydrocarbons at a concentration of 140 mg/kg was also reported to contain a total cyanide concentration of 1.1 mg/kg. Total cyanide was not detected at a concentration above the laboratory reporting limit in the corresponding duplicate sample collected from this soil boring. Total cyanide was not detected at a concentration above the laboratory reporting limit in the sample collected from soil boring SB-061.

#### 6.3.13 AOC 12 Hydraulic Elevators

Soil boring SB-045 was advanced to assess this AOC. This soil boring was advanced adjacent to the hydraulic elevator formerly used to deliver goods to the kitchen located on the second floor of the Administration Building (Drawing 5-1). Duplicate samples collected at a depth of 0 to 2 fbg from this soil boring were analyzed for VOCs, PAHs, ETPH, and PCBs.

The samples collected from soil boring SB-045 did not contain VOCs or PCBs at concentrations above laboratory reporting limits. In addition, the samples did not contain petroleum hydrocarbons at concentrations indicative of a release.



The duplicate samples collected from soil boring SB-045 were reported to contain a number of PAH compounds. The concentrations of these compounds ranged from 190 µg/kg for fluoranthene to 380 µg/kg for pyrene.

#### 6.3.14 AOC 13 Emergency Generator

Soil borings SB-034, SB-035, and MW-03 were advanced to assess this AOC (Drawing 5-1). Samples collected from these soil borings were analyzed for VOCs, PAHs, and ETPH. Based on the laboratory analytical results, VOCs were not detected at concentrations above laboratory reporting limits in any of the samples. A number of PAHs were detected in the samples collected from soil borings SB-034 and SB-035. The PAHs that were detected included: fluoranthene, reported at a concentration of 520 µg/kg; phenanthrene, reported at a maximum concentration of 450 µg/kg; and pyrene, reported at a concentration of 590 µg/kg. No PAHs were detected at concentrations above laboratory reporting limits in the samples collected from soil boring MW-03. Petroleum hydrocarbons, reported as ETPH, were detected at a concentration of 250 mg/kg in the soil sample collected at 4 to 6 fbg from soil boring MW-03. None of the other samples were reported to contain ETPH concentrations indicative of a release.

#### 6.3.15 AOC 14 Maintenance / Storage Areas

Soil boring SB-023 was advanced to assess whether a release occurred to shallow soil adjacent to the Rainbow House garage. Soil borings SB-037 and SB-038 were advanced to assess the Wood Shed that is used as a maintenance / storage area (Drawing 5-1). Soil samples collected from these borings were analyzed for VOCs, PAHs, and ETPH. In addition, the duplicate soil samples collected from soil boring SB-038 were analyzed for metals and PCBs.

No VOCs were detected above laboratory reporting limits in the samples collected from soil borings SB-023 and SB-037. Toluene was detected at 1.6 µg/kg in one of the duplicate samples collected from soil boring SB-038; no VOCs were detected above laboratory reporting limits in the corresponding duplicate sample.

No PAHs were detected above laboratory reporting limits in the samples collected from soil boring SB-037. A number of PAH compounds were detected in the sample collected at 0 to 0.5 fbg from soil boring SB-023. Benzo(a)anthracene (4,700 µg/kg), fluoranthene (8,000 µg/kg), phenanthrene (10,000 µg/kg), pyrene (7,700 µg/kg), and a number of other PAHs were detected at concentrations higher than 1,000 µg/kg in this soil sample. No PAHs were detected at concentrations above laboratory reporting limits in the soil sample collected at 0.5 to 2 fbg from this soil boring.



Naphthalene was detected in the duplicate sample collected from soil boring SB-038 that was reported to contain toluene. Naphthalene was detected in this sample at a concentration of 270 µg/kg. In addition, phenanthrene was detected in this sample at a concentration of 250 µg/kg. No other PAHs were detected at concentrations above laboratory reporting limits in this sample, and no PAHs were detected above laboratory reporting limits in the corresponding duplicate sample.

An ETPH concentration of 240 mg/kg was reported for the sample collected at a depth of 0 to 0.5 fbg from soil boring SB-023. The sample collected from soil boring SB-037 was reported to contain petroleum hydrocarbons, reported as ETPH, at a concentration of 19 mg/kg. This concentration is below a concentration of 80 mg/kg that is indicative of a release. Petroleum hydrocarbons, reported as ETPH, were detected at concentrations of 570 mg/kg and 470 mg/kg in the duplicate soil samples collected from soil boring SB-038.

With the exception of silver, no metals were detected in the duplicate samples collected from soil boring SB-038 at concentrations above those believed to be naturally occurring at the Site. Silver was detected at a concentration of 0.78 mg/kg in one of the soil samples collected from soil boring SB-038. Silver was not detected at a concentration above the laboratory reporting limit in the corresponding duplicate sample.

No PCBs were detected at concentrations above laboratory reporting limits in the samples collected from soil boring SB-038.

#### 6.3.16 AOC 15 Pratt Building Mechanical Rooms

Soil boring SB-055 was advanced within the boiler room of the Pratt Building and soil boring SB-056 was advanced within the pool chemical supply room of this building. Soil samples collected at 0 to 2 fbg from these soil borings were analyzed for VOCs, PAHs, and metals. In addition, the sample collected from soil boring SB-055 was analyzed for ETPH.

No VOCs or PAHs were detected above laboratory reporting limits in the samples collected from soil borings SB-055 and SB-056. In addition, petroleum hydrocarbons, reported as ETPH, were not detected above laboratory reporting limits in the sample collected from soil boring SB-055.

No metals were detected at concentrations above those believed to be naturally occurring at the Site.



#### 6.3.17 AOC 16 Former Rubbish Burner / Shop / Garage

Soil borings SB-006, SB-007, and MW-02 were advanced to assess this AOC (Drawing 5-1). Soil samples collected from these soil borings were analyzed for VOCs, PAHs, ETPH, and metals. In addition, the soil samples collected at 0 to 0.5 fbg from borings SB-006 and SB-007 were analyzed for PCBs; the soil sample collected at 0 to 0.5 fbg from soil boring MW-02 was analyzed for PCBs, pesticides, and herbicides; and the soil sample collected at 4 to 6 fbg at soil boring MW-02 was analyzed for PCBs.

The sample collected from soil boring SB-007 was reported to contain a number of petroleum-related VOCs including ethylbenzene, toluene, *o*-xylene, and *m*- & *p*-xylenes (Table 6-2). No VOCs were detected at concentrations above laboratory reporting limits in any of the other samples.

A number of PAH compounds were detected in the soil sample collected at 0 to 0.5 fbg from soil boring MW-02. The PAH concentrations were reported to range from 270 µg/kg for indeno(1,2,3-c,d)pyrene to 630 µg/kg for fluoranthene. No PAHs were detected at concentrations above laboratory reporting limits in the soil sample collected at 4 to 6 fbg from this boring. Also, a number of PAH compounds were detected in the soil sample collected at 0 to 0.5 fbg from soil boring SB-007. The PAH concentrations were reported to range from 200 µg/kg for benzo(g,h,i)perylene to 770 µg/kg for benzo(b)fluoranthene. No PAHs were detected at concentrations above laboratory reporting limits in the soil sample collected from soil boring SB-006.

An ETPH concentration of 81 mg/kg was reported for the sample collected at 0 to 0.5 fbg from soil boring MW-02. The sample collected at 4 to 6 fbg from this soil boring did not contain petroleum hydrocarbons, reported as ETPH, at a concentration above the laboratory reporting limit. An ETPH concentration of 450 mg/kg was reported for the sample collected from soil boring SB-007. Petroleum hydrocarbons, reported as ETPH, were not detected in the sample collected from soil boring SB-006.

Mercury was detected at a concentration of 0.12 mg/kg in the sample collected at 0 to 0.5 fbg from soil boring MW-02. This concentration is above the naturally occurring concentration for soil at the Site. Copper (20 mg/kg), lead (66 mg/kg), and mercury (0.057 mg/kg) were detected in the sample collected from soil boring SB-007. The reported concentrations are above the naturally occurring concentrations for soil at the Site. No other metals were detected at concentrations above the naturally occurring concentrations for soil at the Site.



None of the samples were reported to contain PCBs at concentrations above laboratory reporting limits. In addition, no pesticides or herbicides were detected at concentrations above laboratory reporting limits in the sample collected at 0 to 0.5 fbg from soil boring MW-02.

#### 6.3.18 AOC 17 Loading Docks

Soil boring SB-028 was advanced adjacent to the Durant Building loading dock (Drawing 5-1). Soil samples collected from this boring at depths of 0 to 2 fbg and 4 to 5.5 fbg were analyzed for VOCs, PAHs, ETPH, and metals. No VOCs, PAHs, or petroleum hydrocarbons, reported as ETPH, were detected above laboratory reporting limits in the sample collected at a depth of 0 to 2 fbg. No metals were detected in this sample at concentrations above naturally occurring concentrations for soil at the Site.

Phenanthrene, reported at a concentration of 450 mg/kg, was detected in the sample collected at a depth of 4 to 5.5 fbg from soil boring SB-028. No other PAH compounds and no VOCs were detected above laboratory reporting limits in this sample. An ETPH concentration of 200 mg/kg was also reported for this sample. No metals were detected in this sample at concentrations above naturally occurring concentrations for soil at the Site.

#### 6.3.19 Additional Area of Investigation

Soil boring SB-029 was advanced in the southeastern area of the Site, southeast of the Durant Building. This soil boring was intended to be completed as a monitoring well. However, advancement of the Geoprobe<sup>®</sup> direct-push probe was met with refusal at 2 fbg. A soil sample collected at 0 to 2 fbg from this boring was analyzed for VOCs, PAHs, ETPH, and metals. No VOCs or PAHs were detected in this sample. An ETPH concentration of 24 mg/kg was reported for this sample. This concentration is below that which is believed to be indicative of a release (80 mg/kg). In addition, mercury was detected at a concentration of 0.042 mg/kg in this sample. This concentration is above that which is believed to be above the naturally occurring concentration for soil at the Site. No other metals were detected at concentrations above naturally occurring concentrations for soil at the Site.

### 6.4 Groundwater Results

The locations of the monitoring wells installed at the Site are shown in Figure 5-1. The monitoring wells were installed as planned where groundwater was encountered within the unconsolidated, surficial geologic deposits at the Site. A summary of constituents detected in groundwater is provided in Table 6-4, and a summary of all laboratory analytical results for the groundwater samples collected at the Site is provided in Table 6-5. Copies of the Con-Test



laboratory analytical reports for all groundwater samples and associated QA/QC samples are provided in Appendix D.

No VOCs, PAHs, ETPH, or metals were detected at concentrations above laboratory reporting limits in the groundwater samples collected from wells MW-01, MW-02, and MW-03. Also, no VOCs or PAHs were detected at concentrations above laboratory reporting limits in the grab sample collected from the sump located in the boiler room of the Administration Building. As shown in Table 6-4, petroleum hydrocarbons, reported as ETPH, were detected in this sample at a concentration of 0.28 mg/l. A number of metals were also detected in this sample, including: copper, reported at a concentration of 0.15 mg/l; lead, reported at a concentration of 0.012 mg/l; and zinc, reported at a concentration of 0.054 mg/l.

## **6.5 Quality Assurance / Quality Control Evaluation**

### **6.5.1 Overview**

A summary of analytical data for the QA/QC blank samples is provided as Table 6-6. A summary of the analytical data for the field duplicate samples for soil is provided as Table 6-7. A summary of the analytical data for the field duplicate samples for groundwater is provided as Table 6-8.

### **6.5.2 Trip Blank Samples**

No VOCs were detected above laboratory reporting limits in the trip blank samples collected during the implementation of the Phase II subsurface investigation activities. Therefore, the transfer of VOCs through sample container septa during sample storage and shipping is not believed to have occurred.

### **6.5.3 Equipment Rinsate Blank Samples**

The equipment rinsate blank sample collected on January 28, 2013 during soil sampling activities was reported to contain acetone at a concentration of 5.8 µg/l. The source of acetone is unknown. However, acetone was not detected in any of the corresponding soil samples collected on this date. Thus, the presence of acetone in the equipment rinsate blank sample has no affect on the laboratory analytical data for soil samples collected on this date.

The equipment rinsate blank sample collected on January 28, 2013 during soil sampling activities was also reported to contain phenanthrene at a concentration of 0.17 µg/. The source of phenanthrene is unknown. Phenanthrene was detected in the soil samples collected on this date from soil boring SB-063 at concentrations ranging from 250 µg/l to 640 µg/l. The sample



concentrations are greater than ten times the blank concentration and are not affected by the data for the equipment rinsate blank sample. The laboratory analytical results are useable for the purpose of evaluating whether or not a release occurred.

No other constituents were detected above laboratory reporting limits in this equipment rinsate blank sample collected on January 28, 2013. In addition, no constituents were detected above laboratory reporting limits in equipment rinsate blank samples collected during soil sampling activities conducted on January 24, 25, 29, or 30, 2013. Also, no constituents were detected above laboratory reporting limits in the equipment rinsate blank sample collected on February 4, 2013 during groundwater sampling activities.

#### 6.5.4 Field Duplicate Samples

The laboratory results for field duplicate samples were evaluated to measure the cumulative effects of both field and laboratory precision to provide an indication of overall precision. Precision was measured by calculating the relative percent difference (RPD) for detected constituents in a field duplicate pair when a constituent was reported at greater than two times the laboratory reporting limit in both samples. The RPD values were evaluated in accordance with the documents entitled *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review* (EPA, 1999), and *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review* (EPA, 2004). For the organic constituents in soil, the field and laboratory precision is considered to be acceptable if the RPD values are less than or equal to 50% when both concentrations for a given constituent in a field duplicate pair are greater than two times the reporting limit. The field and laboratory precision is considered to be acceptable for organic compounds in aqueous samples if the RPD values are less than or equal to 30% when both concentrations for a given constituent in a field duplicate pair are greater than two times the reporting limit. If one result was greater than two times the reporting limit and the other result was non-detected or less than two times the reporting limit, technical judgment was applied with respect to the usability of the data.

For inorganic constituents, the field and laboratory precision is considered to be acceptable if the RPD values for soil samples are less than or equal to 50% when both concentrations for a given constituent in a field duplicate pair are greater than five times the reporting limit. The field and laboratory precision for inorganic constituents in aqueous samples is considered to be acceptable if the RPD values are less than or equal to 30% when both concentrations for a given constituent in a field duplicate pair are greater than five times the reporting limit. If one result was greater than five times the reporting limit and the other result was non-detected or less than five times the reporting limit, technical judgment was applied with respect to the usability of the data.



The RPD values calculated for constituents reported at concentrations greater than two times the analytical reporting limit for duplicate soil samples collected from soil borings LEA-SB-035, SB-038, SB-043, SB-045 and SB-059 ranged from 0 percent (%) to 130%. The RPD calculated for pyrene (58%) detected in the samples collected from soil boring SB-045 was outside the acceptable range of less than 50 percent (%) variability for soil samples. Also, the RPD value calculated for ETPH (130%) detected in the samples collected from boring SB-059 was outside the acceptable range of less than 50% variability for soil samples. Accordingly the pyrene and ETPH results are qualified as estimated.

The relatively poor precision of the affected constituents in these samples may be due to the heterogeneity of the soils. Nonetheless, the RPD values do not affect the decision-making process in evaluating whether a release occurred, whether additional investigation will be necessary, or whether remediation is warranted to eliminate potential risk to human health or the environment. Thus, the precision of the constituents reported for these samples does not affect the usability of the data.

No constituents were detected in the duplicate groundwater samples collected from monitoring well MW-03 on February 4, 2013. Thus, field sampling, handling, and laboratory procedures did not affect the reproducibility of the groundwater sample results.



## **7. COMPARISON OF RESULTS TO REGULATORY CRITERIA**

### **7.1 Data Quality Assessment and Data Usability Evaluation**

The RCP methods provide specific QA/QC requirements that the laboratory must follow during analysis of environmental samples and require the laboratory to report the QA/QC analytical data associated with the analysis of each sample in the laboratory report. The RCP further require that the laboratory provide a narrative of any non-conformances for QA/QC data that were outside the acceptable limits for such data, as described in the specific RCP method.

The QA/QC analytical information and the QA/QC narrative provided by Con-Test in each laboratory analytical report package were assessed and evaluated by LEA in accordance with the methodology for performing Data Quality Assessments (DQAs) and Data Usability Evaluations (DUEs) described in the *Laboratory Quality Assurance Quality Control, Data Quality Assessment, Data Usability Evaluation Guidance Document* (DEEP, 2009, revised 2010). Worksheets summarizing the results of the DQA are included as Appendix E.

The DQA resulted in identifying several QA/QC deficiencies in the soil data, including potential high biases for several VOCs, SVOCs, and metals resulting from high percent recoveries in internal standards and in laboratory control and matrix spike samples. Additional issues that were identified during the DQA included laboratory method blank contamination due to copper, reported at a concentration of 0.52 mg/kg. Copper was detected at a concentration of 8.7 mg/kg in the corresponding sample collected from soil boring SB-023. This result is greater than 10 times the laboratory method blank concentration. Thus, the laboratory analytical result for the corresponding field sample was not affected by the laboratory method blank contamination.

The QA/QC deficiencies in the soil data also included the dilution of several soil samples and the associated elevation of reporting limits. Also, lead was reported for a number of samples with low biases because the reporting limits were outside the QC limits and the results were reported at or near reporting limits. The reporting limits are specified in the laboratory analytical reports provided in Appendix D.

In addition, VOCs were reported for two samples with low biases because the soil samples were preserved by the laboratory, not in the field as required by the method. The only VOC detected in these samples was acetone, reported at a concentration of 22,000 µg/kg in each of the two samples. There is no known source of acetone at the Site. However, acetone is a known laboratory contaminant. Given that the two samples were the only samples preserved by the



laboratory, and not other field samples were reported to contain acetone, the presence of acetone in these two samples is suspect and is believed to be attributed to laboratory contamination.

The QA/QC deficiencies in the soil data also included VOCs reported with low biases for the equipment blank sample collected on January 28, 2013. This sample was extracted outside of holding time. Therefore, the VOCs were reported with low biases.

Once the DQA of the laboratory analytical data was performed, and the quality of the analytical data was known, a DUE was performed to assess whether the quality of the data would affect its usability for the intended purpose of evaluating whether a release(s) of petroleum products or hazardous substances occurred at the Site, and for the purpose of assessing the nature and three-dimensional extent of contamination identified at the Site. It appears that the potential low reporting biases for several constituents could have resulted in either those constituents being reported as “not detected” even though the constituents may have been present in the samples, or those constituents being reported at a lower concentration than what may have been present in the samples.

## **7.2 Evaluation of Soil Results**

The laboratory analytical results for soil were compared to the default, numeric criteria identified in the RSRs to provide a preliminary understanding of the potential significance of the results. A complete evaluation of the laboratory analytical results relative to the RSR criteria is not provided because such an evaluation is only appropriate following a Phase III investigation in which both the nature of contamination has been adequately characterized and the three-dimensional extent of contamination has been delineated. The specific RSR criteria to which soil results were compared include the default, numeric RDEC, IDEC, and the PMC applicable to areas with a groundwater classification of GAA (GA PMC).

DEEP has not established criteria for constituents such as beta-methylnaphthalene detected in soil. A request for site-specific criteria for this constituent, and other constituents for which DEEP has not established criteria, will be required in the future to determine whether or not remediation will be required specifically to address such constituents in soil.

The constituents detected in soil that were reported at concentrations that are above the default, numeric RDEC are presented in Table 7-1; the constituents detected in soil that were reported at concentrations that are above the default, numeric IDEC are presented in Table 7-2; and the constituents detected in soil that were reported at concentrations that are above the default, numeric GA PMC are presented in Table 7-3. These constituents are summarized below by constituent group.



### *Volatile Organic Compounds*

No VOCs were reported to be present in soil samples at concentrations above the default, numeric RDEC or the IDEC. Acetone was reported at a concentration of 22,000 µg/kg in the soil samples collected at 0 to 0.5 fbg from soil boring SB-002 and from soil sample location SS-16. As discussed in Section 7.1, the presence of acetone in these two samples is suspect and is believed to be attributed to laboratory contamination.

### *Polynuclear Aromatic Hydrocarbons*

A number of PAHs were reported to be present in soil at concentrations above the RDEC, IDEC, and GA PMC. The PAHs that were reported at concentrations above the RDEC were limited to the petroleum-related compounds: benzo[a]anthracene; benzo[b]fluoranthene; benzo(a)pyrene; and indeno(1,2,3-c,d)pyrene. Benzo[a]anthracene; benzo[b]fluoranthene; and benzo(a)pyrene were also reported at concentrations above the IDEC. While these and a number of other PAHs were reported at concentrations above the GA PMC, the soil samples were not subjected to SPLP analyses to fully evaluate the leaching potential of these compounds in soil. Thus, the data evaluated relative to the GA PMC only provides a preliminary evaluation of the results relative to the GA PMC.

The soils reported to contain PAHs at concentrations above the RDEC, IDEC, and GA PMC were collected at depths of less than 2 fbg. Based on the affinity of PAHs to bind to soil, it is possible that the reported PAHs may not leach through soil at the Site.

Concentrations of PAHs above the RDEC, IDEC, and/or GA PMC were reported for samples obtained from borings advanced in: AOC 1 *Recreation Field*; AOC 2 *Fire Department Training Area and Area of Fill*; AOC 3 *Solid Waste Disposal Area*; AOC4 *Former Oiled Gravel Driveway*; AOC 7 *Perimeter of Existing Buildings*; AOC 8 *Transformers*; and AOC 14 *Maintenance Garage / Storage Areas*, summarized as follows:

<b>Area of Concern</b>	<b>RDEC</b>	<b>IDEC</b>	<b>GA PMC</b>
AOC 1 Recreation Field	SB-008	SB-008	SB-008
AOC 2 Fire Department Training Area and Area of Fill			SB-002
AOC 3 Solid Waste Disposal Area	SB-040, SB-041, SB-042	SB-040, SB-041, SB-042	SB-040, SB-041, SB-042



AOC 4 Former Oiled Gravel Driveway	SB-015		SB-015
AOC 7 Perimeter of Existing Buildings	SB-023, SS-14, SS-18, SS-19	SB-023	SB-023, SS-16, SS-21
AOC 8 Transformers	SS-03, SS-07, SS-08, SS-09	SS-07, SS-08, SS-09	SS-03, SS-07, SS-08, SS-09
AOC 14 Maintenance Garage/Storage Areas	SB-038		SB-038

#### *Extractable Total Petroleum Hydrocarbons (ETPH)*

A number of soil samples were reported to contain concentrations of petroleum hydrocarbons, reported as ETPH above the 80 mg/kg threshold that was considered to be indicative of a release. Moreover, two of these samples were reported to contain concentrations of ETPH above the RDEC (500 mg/kg). The soil sample collected at a depth of 0.5 to 2 fbg from boring SB-008, advanced within AOC 1 *Recreation Field*, was reported to contain an ETPH concentration of 1,000 mg/kg. The soil sample collected at a depth of 0 to 2 fbg from soil boring SB-038, advanced within AOC 14 *Maintenance Garage / Storage Areas*, was reported to contain an ETPH concentration of 570 mg/kg. These concentrations are also above the GA PMC (500 mg/kg). No other soil samples contained concentrations of ETPH above the RDEC and GA PMC. No soil samples contained concentrations of ETPH above the IDEC.

#### *Metals and Cyanide*

Lead was detected at 610 mg/kg in the sample collected at 0 to 0.5 fbg from soil boring SB-023, advanced within AOC 7, *Perimeter of Existing Buildings*. This concentration is the highest concentration of lead detected in soil at the Site. The reported concentration is above the DEEP guidance value of 400 mg/kg and the RDEC of 500 mg/kg. No other metals were detected at concentrations above the RDEC. No metals were detected at concentrations above the IDEC. While no metals were detected at concentrations above the GA PMC, the results of metals analyses obtained following SPLP extraction are needed to fully evaluate the leaching potential of metals in soil at the Site.

Total cyanide was detected at a concentration of 1.1 mg/kg in one of the duplicate samples collected from soil boring SB-059. Total cyanide was not detected at a concentration above the laboratory reporting limit in the corresponding duplicate sample. Because one result was



reported to be less five times the reporting limit and the other result was non-detected, the reported presence of cyanide in soil is questionable.

### *Pesticides*

The concentration of chlordane detected in the sample collected at a depth of 0 to 0.5 fbg at soil sample location SS-21 was reported to be 210 µg/kg. This concentration is above the GA PMC of 66 µg/kg. The concentration of heptachlor epoxide detected in this sample was reported to be 39 µg/kg. This concentration is above the GA PMC of 20 µg/kg. While the reported concentrations of chlordane and heptachlor epoxide are above the default numeric GA PMC, analytical results obtained following SPLP extraction are needed to fully evaluate the leaching potential of these constituents in soil at the Site.

No other constituents are present in soil at the Site at concentrations above the RDEC, IDEC, or GA PMC.

## **7.3 Evaluation of Groundwater Results**

The specific RSR criteria to which groundwater results were compared include the Groundwater Protection Criteria (GWPC) and the Surface Water Protection Criteria (SWPC). Because no VOCs are present in groundwater at the Site, a comparison of the groundwater results to the Residential Volatilization Criteria (RVC) and Industrial/Commercial Volatilization Criteria (IVC) is not warranted.

As shown in Table 7-4, petroleum hydrocarbons, reported as ETPH, were detected at a concentration of 0.28 mg/l in the grab sample collected from the sump located within the boiler room of the Administration Building. While DEEP has not promulgated a groundwater protection criterion for petroleum hydrocarbons reported as ETPH, a value of 0.25 mg/l is being used by DEEP as a value to which groundwater results should be compared in assessing whether or not a release has occurred to groundwater.

The concentrations of copper, lead, and zinc detected in the grab sample collected from the sump located within the boiler room of the Administration Building are below the respective GWPC. However, the concentration of copper reported for this sample is above the SWPC of 0.048 mg/l. As shown in Table 7-5, copper was detected in this sample at a concentration of 0.15 mg/l.

It is unknown whether the constituent concentrations detected in the sample collected from the sump located within the boiler room of the Administration Building are indicative of what may be dissolved in groundwater. Prior to further evaluation of the reported concentrations,



additional investigation is needed once the practice of discharging boiler blow down water to the sump has been discontinued.



## **8. UPDATED CONCEPTUAL SITE MODEL**

### **8.1 Overview**

The suspected release mechanisms, contaminant migration pathways, potentially affected environmental media, and constituents of concern for each AOC at the Site were re-evaluated based on the results of the Phase II investigation activities, and are presented as an updated CSM, which is presented as follows.

### **8.2 AOC 1 Recreation Field**

The Recreation Field was used historically to grow crops and was the location of several small buildings associated with farming activities. The field has also been used as a baseball diamond and a football field. Fill material has been placed in the area of the field to maintain its playing condition.

Contaminants of concern within this AOC include pesticides and herbicides that may have been applied when the field was used to grow crops. Other constituents of concern include contaminants that may have been included in fill material that was placed in this area. These additional constituents include VOCs, PAHs, petroleum hydrocarbons, PCBs, and metals.

Based on the findings of the Phase II investigation activities, a number of PAH compounds and petroleum hydrocarbons, reported as ETPH, are present in shallow soil in the northeastern portion of the Recreation Field.

### **8.3 AOC 2 Fire Department Training Area and Area of Fill**

The 0 Oral School Road parcel located on the western portion of the Site is the former location of the Cook's House. This parcel is currently used as a fire fighting training center. The former Cook's House was destroyed in a fire during fire fighting exercises.

In addition, fill material was placed in this area of the Site. Potential sources of contamination include fuels that may have been used as an ignition source for fire fighting training. In addition, potential sources of contamination include contaminants that may have been released to the ground due to the incomplete combustion of building materials. These sources also include the placement of any contaminated fill used to raise the grade in this area of the Site. Constituents of concern include VOCs, PAHs, petroleum hydrocarbons, PCBs, and metals. Based on the findings of the Phase II investigation activities, lead and a number of petroleum-related VOCs and PAHs are present in shallow soil in this area of the Site.



#### 8.4 **AOC 3 Solid Waste Disposal Area**

The area located north of the entrance to the Pratt Building has been used as a disposal area for scrap metal, wood, asphalt, bricks, and other solid waste. Constituents of concern include VOCs, PAHs, petroleum hydrocarbons, PCBs, metals, pesticides, and herbicides. Based on the findings of the Phase II investigation activities, a number of PAH compounds and petroleum hydrocarbons are present in shallow soil in this area of the Site.

#### 8.5 **AOC 4 Former Oiled Gravel Driveway**

The driveway located north of the Girls Wing was formerly identified as an “Existing Oiled Gravel Driveway.” The area of the driveway may have been impacted by the oil placed on the driveway. The contaminants of concern for this AOC include PAHs, petroleum hydrocarbons, PCBs, and metals. Based on the findings of the Phase II investigation activities, a number of PAH compounds and petroleum hydrocarbons are present in shallow soil in this area of the Site.

#### 8.6 **AOC 5 Former and Existing Underground Storage Tanks**

A number of USTs have been used at the Site to store heating oil. One heating oil UST has been abandoned in-place and four other heating oil USTs have been removed from the Site. In addition, one UST formerly used to store gasoline was removed from the Site. A diesel fuel UST associated with the Emergency Generator was also removed from the Site. Existing USTs at the Site include three 10,000-gallon USTs used to store heating oil.

Releases of petroleum hydrocarbons associated with USTs at the Site have previously been reported. While the laboratory analytical data for samples collected following response actions taken to address these releases indicate that the impacts have been cleaned-up, there may have been other UST releases that have not been addressed. Constituents of concern include VOCs, PAHs, petroleum hydrocarbons, and metals.

Based on the findings of the Phase II investigation activities, a number of PAH compounds are present in shallow soil in the area of the UST abandoned in-place adjacent to the Rainbow House. In addition, a number of PAH compounds and petroleum hydrocarbons are present in soil next to the smokestack associated with the Administration Building boiler room and downgradient of former heating oil USTs. The identification of pieces of coal within the samples collected from the soil boring advanced to assess this area of the Site may be used to suggest that the constituents present in soil at this location have resulted from boiler room operations and not from UST operations.



## 8.7 **AOC 6 Aboveground Storage Tanks**

There are two existing 275-gallon heating oil ASTs maintained at the Site. One AST is located in the basement of the Rainbow House, and the other is located in the Maintenance Garage. The concrete floors beneath each tank were observed to be stained with oil. Contaminants of concern include VOCs, PAHs, petroleum hydrocarbons, and metals.

## 8.8 **AOC 7 Perimeter of Existing Buildings**

The use of pesticides and herbicides to control pests and weeds is a common practice. Heavy application of pesticides and herbicides at State-owned facilities is known to have occurred. At the Site, these chemicals would have typically been applied to the ground surface along the perimeter of buildings. Given the age of the site buildings and apparent extended use of pesticides and herbicides, the possibility of contamination in the shallow soils exists as a result of pesticide and herbicide application.

Also, given the age of the site buildings it is possible that lead-based paint was applied to the exterior of the buildings. Any lead-based paint that leached from weathered window frames or other exterior wood building components, or that peeled from exterior concrete block, may have resulted in the release of lead to shallow soil. Evidence that paint had leached from wooden window frames was visually observed during the Phase I ESA activities (LEA, 2013).

Constituents of concern include pesticides, herbicides, and lead. Based on the results of the Phase II investigation activities, lead has been released to shallow soils around the Administration Building, Boys Wing, and Wood Shed. In addition, chlordane and heptachlor epoxide have been released to shallow soils adjacent to the Crouter Building.

## 8.9 **AOC 8 Transformers**

Three exterior, wet-type electrical transformers were observed during the site reconnaissance. The transformers are situated upon concrete pads. No stains were observed on the concrete pads. Potential release mechanisms include spills of dielectric fluid to the concrete pad and to the surrounding soil. The constituents of concern include petroleum hydrocarbons and PCBs.

Based on the findings of the Phase II investigation activities, a number of PAH compounds and petroleum hydrocarbons are present in shallow soil in the area of the transformer located north of the Whipple Building. In addition, a number of PAH compounds and petroleum hydrocarbons are present in shallow soil in the area adjacent to the Emergency Generator. However, the presence of these compounds in soil at this location may have resulted from the approximately



150 to 200 gallons of diesel fuel released to the ground adjacent to the Emergency Generator on February 26, 2005 (LEA, 2013).

#### **8.10 AOC 9 Crouter Building**

The Crouter Building was used for classroom space, a carpentry shop, a paint room/spray paint booth, an internal combustion engine laboratory, and a gymnasium. The building is currently used to store equipment and materials. Materials stored in the building include empty containers of hydrochloric acid. Areas of the floor within the internal combustion engine laboratory were observed to be stained. Potential transport mechanisms include the migration of spilled materials through the concrete floor. The contaminants of concern include VOCs, PAHs, petroleum hydrocarbons, and metals.

#### **8.11 AOC 10 Administration Building and Girls Wing Boiler Rooms**

A release of heating oil was reported to have occurred within the boiler room of the Administration Building. The release resulted in the migration of heating oil across the floor into the sump. In addition, boiler blow down water that is discharged on a daily basis to the sump was historically discharged through the concrete floor of this room. Heating oil released to the concrete floor of the boiler room may have migrated through the floor and impacted underlying soil. In addition, boiler blow-down water released directly through the concrete floor may have impacted underlying soil.

The boiler within the basement of the Girls Wing provides steam and hot water throughout this building. The boiler is fueled using No. 4 heating oil, but had previously been fueled using No. 6 heating oil and pre-heaters. Originally, the boiler was fueled using coal. A coal chute was located along the boiler room east wall.

The constituents of concern include VOCs, PAHs, petroleum hydrocarbons, and metals. Based on the findings of the Phase II investigation activities, a number of PAH compounds and petroleum hydrocarbons have been released to soil in the vicinity of the former coal chute associated with the original boiler in the Girls Wing of the Administration Building.

#### **8.12 AOC 11 Administration Building Storage Rooms and Photography Lab**

The storage rooms within the Administration building include the janitor Room. The janitor room was observed to contain a number of chemical cleaning products. The floor of this room was observed to be stained. The constituents of concern include VOCs, PAHs, petroleum hydrocarbons, and metals.



The photography laboratory located on the ground floor of the Boys Wing was observed to be constructed of cinder block. The floor within this laboratory appeared to be in relatively good condition. No staining was observed. A drain located within this room was reported to be connected to the on-site wastewater discharge system. Any chemicals that were spilled to the floor of the laboratory may have migrated through the concrete or around the floor drain piping. The constituents of concern include VOCs, metals, and cyanide.

#### **8.13 AOC 12 Hydraulic Elevators**

Two hydraulically-powered elevators exist within the Administration Building. A passenger elevator is located within the central part of the Administration Building. A freight elevator is located adjacent to the loading dock within this building and was formerly used to deliver goods to the kitchen located on the second floor. In addition, one pulley-operated elevator is located within the boiler room of the Administration building. The concrete floor was stained near the hydraulic reservoir of the freight elevator. The constituents of concern include VOCs, PAHs, petroleum hydrocarbons, PCBs, and metals. Based on the results of the Phase II investigation activities, a number of PAH compounds were released to soil in the vicinity of the hydraulic elevator formerly used to deliver goods to the kitchen of the Administration Building. Further investigation may be necessary to delineate the extent and degree of this contamination.

#### **8.14 AOC 13 Emergency Generator**

The reported release of approximately 150 to 200 gallons of diesel oil to the ground in the area of the Emergency Generator may have impacted subsurface soil. In addition, there may have been other releases of diesel oil from the UST formerly located in this AOC. The diesel oil may have been released directly to the soil from a leak in the UST or subsurface piping. Oil released to the ground may have migrated through shallow soil and impacted subsurface soils. The constituents of concern include VOCs, PAHs, metals, and petroleum hydrocarbons. Based on the findings of the Phase II investigation activities, a number of PAH compounds and petroleum hydrocarbons are present in shallow soil in this area of the Site.

#### **8.15 AOC 14 Maintenance Garage / Storage Areas**

A heating oil furnace and associated 275-gallon heating oil AST are located along the southern wall of the Maintenance Garage. Gasoline is stored in the garage. The garage is used to perform routine maintenance on power and other equipment. The Rainbow House Garage represents an AOC given the age of the structure and the likely use of the garage for similar purposes.



Several containers of liquid waste are stored in the Wood Shed. Waste oils and waste gasoline were observed to be stored on a containment pallet in this shed. This liquid waste accumulation area of the Wood Shed represents an AOC. The concrete floor of the Wood Shed was observed to be heavily stained with oil.

The constituents of concern include VOCs, PAHs, petroleum hydrocarbons, PCBs, and metals. Based on the findings of the Phase II investigation activities, a number of PAH compounds and petroleum hydrocarbons were released to shallow soil adjacent to the Rainbow House garage. In addition, a number of PAH compounds, petroleum hydrocarbons, and silver were released to shallow soil beneath the Wood Shed.

#### **8.16 AOC 15 Pratt Building Mechanical Rooms**

The Pratt Building mechanical rooms include the boiler room and the pool chemical supply room. The floor of the boiler room was observed to be stained in several areas. The pool chemical supply room was formerly used to add chlorine to circulated pool water and to back-flush the pool water. The floor of this room was also observed to be stained. The staining that was observed in the mechanical rooms is typical for the functions served by these rooms. The constituents of concern include VOCs, PAHs, petroleum hydrocarbons, and metals.

#### **8.17 AOC 16 Former Rubbish Burner / Shop / Garage**

The former site features include the rubbish burner and the two buildings identified as a shop and a garage formerly located north of the driveway/parking area that is north of the Administration Building. Based on the apparent use of these former features, it is possible that chemicals may have been released to the ground in this area of the Site. Potential release mechanisms include spills from equipment or containers onto the ground surface. The constituents of concern include VOCs, PAHs, petroleum hydrocarbons, PCBs, and metals. Based on the results of the Phase II investigation activities, a number of metals, petroleum-related VOCs and PAHs, and petroleum hydrocarbons have been released to soils in the vicinity of the Former Rubbish Burner and former Garage.

#### **8.18 AOC 17 Loading Docks**

The loading docks at the Site were used to receive goods and materials, including small quantities of chemicals, delivered to the Administration Building and the Durant Building. The loading docks did not appear to be stained. Any chemicals that may have been spilled on the loading docks could have flowed onto the adjoining ground surface and could have migrated through the paved surface to underlying soils. The constituents of concern include VOCs, PAHs,



petroleum hydrocarbons, and metals. Based on the results of the Phase II investigation activities, phenanthrene and petroleum hydrocarbons are present in soil adjacent to the Durant Building loading dock.

The scope of additional investigation activities performed to delineate the degree and extent of contamination within each AOC should be based upon this updated CSM.



## **9. FINDINGS AND CONCLUSIONS**

LEA has performed a Phase II ESA of the property identified as the former Mystic Oral School for the Deaf located in Groton, Connecticut. The Phase II subsurface investigation activities were conducted to assess the extent and degree of contamination resulting from releases within certain AOCs where petroleum hydrocarbons were reported to have been released to the ground surface, impacting subsurface soils. Further, these activities were conducted to assess whether petroleum products have been released from other AOCs and whether or not hazardous substances have been released at the Site. In addition, the investigation activities were performed to obtain information relative to the composition of subsurface materials and to provide an evaluation of the concentrations of constituents in soil and groundwater relative to applicable standards and criteria provided in the RSRs. The Phase II subsurface investigation activities included:

- A radio frequency and GPR survey to identify the limits of known UST facilities and to identify the locations of any other UST facilities or subsurface features, such as dry wells and basements, which may be present at the Site. In addition, the survey was performed to verify that the proposed soil boring locations did not conflict with the locations of underground utilities.
- The advancement of 49 soil borings. In total, 133 soil samples were collected from these borings, and 89 samples were analyzed for one or more of the following groups of analytical parameters: VOCs, PAHs, PCBs, ETPH, pesticides, and metals.
- The installation of three groundwater monitoring wells. Groundwater samples were collected from each well and from the sump located within the Administration Building boiler room. The groundwater samples were analyzed for one or more of the following groups of analytical parameters: VOCs, PAHs, ETPH, and total metals.
- A field survey performed to record the locations soil borings and monitoring wells relative to the USTs, other site improvements. The field survey was also performed to record the elevation of the top of the PVC riser of each monitoring well.

The principal findings and conclusions of this investigation are summarized as follows:

- Subsurface materials at the Site consist of very fine-grained to fine-grained sands with trace amounts of silt and gravel. Bedrock was observed to outcrop at several locations at the Site. Bedrock is present beneath other areas of the Site at less than approximately 15 fbg.



- Artifacts of fill consisting of ash and pieces of asphalt and coal are present in soil at a number of locations at the Site. Ash is present in soil at a depth up to at least 2 fbg within AOC 16 *Former Rubbish Burner / Shop / Garage*. Pieces of asphalt are present in soil approximately 15 fbg within AOC 3, *Solid Waste Disposal Area*. Pieces of coal are present in soil at a depth up to at least 8 fbg adjacent to the smokestack located outside of the Administration Building boiler room.
- Groundwater is present approximately 5 to 10 fbg and at elevations ranging from approximately 147 to 151 feet above mean sea level, where it was encountered within the unconsolidated, surficial geologic deposits at the Site.
- Various constituents of concern, including VOCs, PAHs, ETPH, metals, cyanide, and pesticides were detected in soil samples collected from one or more of the AOCs at concentrations indicative of releases. A summary of constituents detected at each AOC is provided as follows:
  - AOC 1 Recreation Field - Petroleum hydrocarbons and petroleum-related PAHs are present in shallow soil within this AOC. The presence of these constituents may be associated with the placement of contaminated fill over the area of the Recreation Field. Further investigation is necessary to delineate the degree and extent of contamination. Based on the reported concentrations, remedial action is warranted to address the impacts to soil.
  - AOC 2 Fire Department Training Area and Area of Fill – A number of VOCs and PAHs are present in shallow soil within this AOC. Lead is also present in shallow soil within this AOC. Although no constituents of concern were detected at concentrations that exceed the applicable RSR criteria, further investigation is necessary to delineate the degree and extent of contamination before it may be concluded that remedial action is not warranted to address the impacts to soil.
  - AOC 3 Solid Waste Disposal Area - Petroleum hydrocarbons and PAHs are present in shallow soil within this AOC. The presence of these constituents may be associated with the placement of contaminated fill. Further investigation is necessary to delineate the degree and extent of contamination. Based on the reported concentrations, remedial action is warranted to address the impacts to soil. In addition, this Solid Waste Disposal Area must be closed in accordance with the Connecticut Solid Waste Management Regulations promulgated under Sections 22a-209-1 *et seq* of the RCSA.



- AOC 4 Former Oiled Gravel Driveway - Petroleum hydrocarbons and petroleum-related PAHs are present in shallow soil within this AOC. The presence of these constituents at the reported concentrations may be attributed to the overlying asphalt driveway. The sampling and analyses conducted were sufficient to characterize this AOC. Further investigation is not believed to be necessary and remedial action is not warranted to address the impacts to soil.
- AOC 5 Former and Existing Underground Storage Tanks - Petroleum hydrocarbons and petroleum-related PAHs are present in shallow soil within this AOC. Although no constituents of concern were detected at concentrations that exceed the applicable RSR criteria, further investigation is necessary to delineate the degree and extent of contamination before it may be concluded that remedial action is not warranted to address the impacts to soil.
- AOC 6 – Aboveground Storage Tanks – No constituents of concern were detected in samples collected from this AOC. No further investigation is necessary. No remedial action is warranted.
- AOC 7 Perimeter of Existing Buildings - Lead has been released to shallow soils around the Administration Building, Boys Wing, and Wood Shed. In addition, chlordane and heptachlor epoxide were detected at one location in shallow soils adjacent to the Crouter Building. Further investigation is necessary to delineate the extent and degree of this contamination. Based on the reported concentrations of lead, a demonstration of compliance with the RSRs may be possible based on a statistical analysis of the data. Pending analyses for pesticides following SPLP extraction, remedial action may be warranted to address impacts to shallow soils adjacent to the Crouter Building.
- AOC 8 Transformers – Petroleum hydrocarbons and petroleum-related PAHs are present in shallow soil surrounding the transformer located adjacent to the Emergency Generator. The presence of these constituents is likely attributed to the approximately 150 to 200 gallons of diesel fuel released to the ground on February 26, 2005 (LEA, 2013). Remediation is warranted to address these impacts to soil. Petroleum hydrocarbons and petroleum-related PAHs are also present in shallow soil surrounding the transformer located north of the Whipple Building. The sampling and analyses conducted were sufficient to characterize this transformer. Further investigation is not believed to be necessary and remedial action is not warranted to address the impacts to soil surrounding the transformer located north of the Whipple Building.



- AOC 9 Crouter Building - Based on the laboratory analytical results, barium and silver were released to soil in the vicinity of the dust collector. The sampling and analyses conducted were sufficient to characterize this AOC. Further investigation is not believed to be necessary and remedial action is not warranted to address the impacts to soil surrounding the dust collector.
- AOC 10 Administration Building and Girls Wing Boiler Rooms – Petroleum-related PAHs and metals were released to shallow soil in the vicinity of the former coal chute associated with the original boiler in the Girls Wing of the Administration Building. Although no constituents of concern were detected at concentrations that exceed the applicable RSR criteria, further investigation is necessary to delineate the degree and extent of contamination before it may be concluded that remedial action is not warranted to address the impacts to soil.
- AOC 11 Administration Building Storage Rooms and Photography Lab - Petroleum hydrocarbons and total cyanide were reported to be present in one of the duplicate samples collected from this AOC. In addition, pyrene was detected in one sample collected from this AOC. The sampling and analyses conducted were sufficient to characterize this AOC. Further investigation is not believed to be necessary and remedial action is not warranted to address the impacts to soil.
- AOC 12 Hydraulic Elevators – A number of petroleum-related PAHs are present in shallow soil within this AOC. The sampling and analyses conducted were sufficient to characterize this AOC. Further investigation is not believed to be necessary and remedial action is not warranted to address the impacts to soil.
- AOC 13 Emergency Generator – Petroleum hydrocarbons and petroleum-related PAHs are present in soil within this AOC. Further investigation is necessary to delineate the degree and extent of contamination before it may be concluded that remedial action will not be warranted to address the impacts to soil.
- AOC 14 Maintenance Garage / Storage Areas - Petroleum hydrocarbons, petroleum-related PAHs, and silver are present in soil within this AOC. Further investigation is necessary to delineate the degree and extent of contamination. Based on the reported concentrations, remedial action is warranted to address the impacts to soil.
- AOC 15 Pratt Building Mechanical Rooms - No constituents of concern were detected in samples collected from this AOC. No further investigation is necessary. Remedial action is not warranted.



- AOC 16 Former Rubbish Burner / Shop / Garage - Petroleum hydrocarbons and petroleum-related VOCs and PAHs are present in soil within this AOC. In addition, metals are present in soil within this AOC. The presence of these constituents may be associated with the placement of contaminated fill over the area of the Recreation Field. Further investigation is necessary to delineate the degree and extent of contamination before it may be concluded that remedial action is not warranted to address the impacts to soil.
- AOC 17 Loading Docks – Phenanthrene and petroleum hydrocarbons are present in subsurface soils adjacent to the Durant Building loading dock. Further investigation is necessary to delineate the degree and extent of contamination before it may be concluded that remedial action is not warranted to address the impacts to soil.
- No constituents of concern are present in groundwater at the Site. However, it is unknown whether the concentrations of copper, lead, zinc, and petroleum hydrocarbons that were detected in the sample collected from the Administration Building boiler room sump are indicative of what may be dissolved in groundwater. Additional investigation is needed once the practice of discharging boiler blow down water to the sump has been discontinued.

Based on the Phase II subsurface investigation activities conducted at the Site, there have been releases of petroleum products and hazardous substances to soil at the Site. Further investigation is necessary to delineate the degree and extent of contamination. Based on the concentrations of constituents detected in soil, remedial action is warranted.



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## TABLES



## FIGURES



## **DRAWINGS**



## **APPENDICES**



## **APPENDIX A**

### **Loureiro Engineering Associates, Inc. Standard Operating Procedures**



## **APPENDIX B**

### **Geologic Boring Logs**



## **APPENDIX C**

### **Well Completion Logs**



## **APPENDIX D**

### **Con-Test Laboratory Analytical Reports**



## **APPENDIX E**

### **Data Quality Assessment Worksheets**



## TABLES



**Table 2-1**  
**SUMMARY OF BUILDING INFORMATION**  
**240 Oral School Road, Mystic Connecticut**

[illegible]



<p><b>Table 4-1</b></p> <p><b>PRELIMINARY CONCEPTUAL SITE MODEL / PHASE II SUBSURFACE INVESTIGATION ACTIVITIES</b></p> <p><b>Former Mystic Oral School for the Deaf, Groton, Connecticut</b></p>				
<b>Area of Concern</b>	<b>Description &amp; Background</b>	<b>Potential Contaminant Sources and Migration Pathways</b>	<b>Constituents of Concern</b>	<b>Summary of Investigation</b>
AOC 1 Recreation Field	This area of the Site was used historically to grow crops. Several small buildings associated with farming activities were formerly located within this AOC. This area of the Site has also been used as a baseball diamond and a football field. Fill material has reportedly been placed in the area of this field to maintain its playing condition.	Pesticides and herbicides may have been historically applied to the ground in this area of the Site. Constituents that comprise the pesticides and herbicides may have resulted in contamination of surface soils and may have migrated to the deeper soils and groundwater. In addition, any constituents that may have been present in contaminated fill placed in this area of the Site may have leached from the fill due to infiltrating precipitation and may have migrated to deeper soils and possibly groundwater.	VOCs, PAHs, ETPH, Metals, Pesticides, Herbicides,	Soil Borings SB-004, SB-005, SB-008
AOC 2 Fire Department Training Area and Area of Fill	The 0 Oral School Road parcel located on the western portion of the Site is the former location of the Cook's House. This parcel is currently used as a fire fighting training center. The former Cook's House was destroyed in a fire during fire fighting training exercises. Fill material has been placed within this AOC, generally in the vicinity of the paved parking lot.	Hazardous substances and/or petroleum products may have been released to the ground as a result of fire fighting training exercises. Constituents could initially impact and penetrate the surface soil or asphalt pavement and/or migrate toward cracks in the pavement or areas surrounding the pavement. The constituents could possibly migrate to the underlying soil and groundwater. In addition, any constituents that may have been present in contaminated fill placed in this area of the Site may have leached from the fill due to infiltrating precipitation or water generated during fire fighting exercises, and may have migrated to deeper soils and possibly groundwater.	VOCs, PAHs, ETPH, PCBs, Metals	Soil Borings SB-001, SB-002, SB-003, MW-01  Monitoring Well MW-01
AOC 3 Solid Waste Disposal Area	The area located north of the entrance to the Pratt Building has been used as a disposal area for scrap metal, wood, asphalt, bricks, and other solid waste.	The bulky waste does not pose a direct risk to human health, however constituents of concern could leach from the waste materials and could infiltrate soil and possibly migrate to groundwater.	VOCs, PAHs, ETPH, PCBs, Metals, Pesticides	Soil Borings SB-040, SB-041, SB-042, SB-043
AOC 4 Former Oiled Gravel Driveway	This driveway located north of the Girls Wing was formerly identified as an "Existing Oiled Gravel Driveway." Used oil would have been applied to the gravel driveway to control dust.	Constituents within used oil applied to the driveway could have penetrated the surrounding and underlying soil and possibly migrated to deeper soils and groundwater.	PAHs, ETPH, PCBs, Metals	Soil Borings SB-014, SB-015, SB-016
AOC 5 Former and Existing Underground Storage Tanks	A number of USTs have been used at the Site to store heating oil. One heating oil UST has been abandoned-in place and four other heating oil USTs have been removed from the Site. In addition, one UST formerly used to store gasoline was removed from the Site. A diesel fuel UST associated with the Emergency Generator was also removed from the Site. Existing heating oil USTs at the Site include three 10,000-gallon USTs. Releases of petroleum hydrocarbons associated with USTs at the Site have previously been reported. While the laboratory analytical data for samples collected following response actions taken to address these releases indicate that the impacts have been cleaned-up, there may have been other UST releases that have not been addressed.	Constituents in heating oil have spilled to the ground surface during filling operations. Releases could result from overfilling, and/or leaks in the tanks and appurtenant piping. Substances that may have been released at the ground surface could initially impact and penetrate the surface soil or asphalt pavement and/or migrate toward cracks in the pavement or areas surrounding the pavement. Constituents could then migrate to the underlying soil and possibly to groundwater. Substances that may have been released below the ground surface could migrate through the soil and could potentially impact groundwater.	VOCs, PAHs, ETPH	Soil Borings SB-022, SB-032, SB-033, SB-044, SB-063
AOC 6 Aboveground Storage Tanks	There are two existing 275-gallon heating oil ASTs maintained at the Site. One AST is located in the basement of the Rainbow House, and the other is located in the Maintenance Garage. The concrete floors beneath each tank were observed to be stained with oil.	Releases of petroleum products may have occurred during transfer and storage. Releases during filling could result from overflows at the exterior fill ports and tank vents. Releases during storage could result from leaks in the tanks and appurtenant piping. Releases of petroleum products within the buildings could have resulted in substances penetrating the concrete slab, and/or migrating through cracks or joints in the slab. These substances could then migrate to the underlying soil and possibly to groundwater.	VOCs, PAHs, ETPH	Soil Borings SB-039, SB-054



<p><b>Table 4-1</b>  <b>PRELIMINARY CONCEPTUAL SITE MODEL / PHASE II SUBSURFACE INVESTIGATION ACTIVITIES</b>  <b>Former Mystic Oral School for the Deaf, Groton, Connecticut</b></p>				
Area of Concern	Description & Background	Potential Contaminant Sources and Migration Pathways	Constituents of Concern	Summary of Investigation
AOC 7 Perimeter of Existing Buildings	Given the age of the Site buildings and apparent extended use of pesticides and herbicides to control pests and weeds, the possibility of contamination in the shallow soils exists as a result of the application of these substances. Pesticides and herbicides would have typically been applied to the ground surface along the perimeter of buildings. Also, given the age of the site buildings it is possible that lead-based paint was applied to the exterior of the buildings. Any lead-based paint that leached from weathered window frames or other exterior wood building components, or that peeled from exterior concrete block, may have resulted in the release of lead to shallow soil. Evidence that paint had leached from the window frames was visually observed during the Phase I ESA activities	Constituents in pesticides and herbicides may have migrated through surface soils to deeper soils and possibly to groundwater where they were applied. In addition, any lead-based paint applied to wooden window frames may have impacted surface soils and leached from these soils due to infiltrating precipitation thereby affecting deeper soils and possibly groundwater.	Pesticides, Herbicides, Lead	Soil Samples SS-13 through SS-21  Soil Borings SB-022, SB-023
AOC 8 Transformers	Three exterior, wet-type electrical transformers are situated upon concrete pads. Dielectric fluids within the transformers may contain PCBs, or at one time may have contained PCBs. No stains were observed on the concrete pads.	Dielectric fluid contained within the transformers may have leaked onto the concrete pads. The fluid could have migrated toward cracks in the concrete or toward areas surrounding the pads. The fluids could then migrate to the underlying soil and possibly to groundwater.	ETPH, PCBs	Soil Samples SS-01, SS-02, SS-03, SS-07, SS-08, SS-09
AOC 9 Crouter Building	This building was used for classroom space, a carpentry shop, a paint room/spray paint booth, an internal combustion engine laboratory, and a gymnasium. The building is currently used to store equipment and materials including empty containers of hydrochloric acid. Areas of the floor within the internal combustion engine laboratory were observed to be stained.	Hazardous substances and petroleum products may have spilled to the concrete floor of the building and may have migrated through the floor or through cracks in the floor, thereby impacting underlying soils.	VOCs, PAHs, ETPH, Metals	Soil Borings SB-009, SB-010, SB-011, SB-012, SB-062
AOC 10 Administration and Girls Wing Boiler Rooms	The boilers within the Administration Building and the basement of the Girls Wing are used to provide steam and hot water. The boilers are fueled using No. 4 heating oil, but had previously been fueled using No. 6 heating oil and pre-heaters. Originally, the boiler within the Girls Wing was fueled using coal. A coal chute was located along the Boiler Room east wall. A release of heating oil was reported to have occurred within the Boiler Room of the Administration Building. The release resulted in the migration of heating oil across the floor into the Boiler Room sump. In addition, boiler blow down water that is discharged on a daily basis to the sump was historically discharged through the concrete floor of this room.	Releases of hazardous substances or petroleum products could have resulted from the daily discharge of boiler blow down water. Releases of petroleum products within the building could have resulted in substances traveling through the existing sump and/or penetrating the concrete slab, and/or migrating through the cracks or joints in the slab. These substances could then migrate to the underlying soil and possibly to groundwater.	VOCs, PAHs, ETPH, Metals	Soil Borings SB-048, SB-049, SB-050, SB-051, SB-058
AOC 11 Administration Building Storage Rooms and Photography Lab	The storage rooms within the Administration Building include the Janitor Room, which was observed to contain a number of chemical cleaning products. The floor of this room was observed to be stained.  The photography lab located on the ground floor of the Boys Wing was observed to be constructed of cinder block. The floor within this laboratory appeared to be in relatively good condition. No staining was observed. A drain located within this room was reported to be connected to the on-site wastewater discharge system.	Hazardous substances spilled to the floor of the building may have migrated through the floor drain piping or concrete slab and/or may have migrated through cracks or joints in the slab. These substances could then migrate to the underlying soil and possibly to groundwater.	VOCs, PAHs, ETPH, Metals, Cyanide	Soil Borings SB-052, SB-053, SB-059, SB-061



**Table 4-1**  
**PRELIMINARY CONCEPTUAL SITE MODEL / PHASE II SUBSURFACE INVESTIGATION ACTIVITIES**  
**Former Mystic Oral School for the Deaf, Groton, Connecticut**

Area of Concern	Description & Background	Potential Contaminant Sources and Migration Pathways	Constituents of Concern	Summary of Investigation
AOC 12 Hydraulic Elevators	Two hydraulically-powered elevators exist within the Administration Building: a passenger elevator is located within the central part of the Administration Building, and a freight elevator is located adjacent to the loading dock within this building and was formerly used to deliver goods to the kitchen located on the second floor. In addition, one pulley-operated elevator is located within the Boiler Room of the Administration building. The concrete floor was stained near the hydraulic reservoir of the freight elevator located adjacent to the loading dock of the Administration building.	Releases of petroleum products and/or hazardous substances could have resulted from past use of the elevators. Stains on the concrete floor adjacent to the hydraulic reservoir is evidence that hydraulic oil may have been resulted in impacts to underlying soil. Hydraulic oil released to the floor may have penetrated the floor and/or may have migrated through cracks or joints in the concrete slab floor and may have affected the underlying soil.	VOCs, PAHs, ETPH, PCBs, Metals	Soil Boring SB-045
AOC 13 Emergency Generator	An Emergency Generator is located in the parking area north of the Administration Building. This generator provides back-up power to the Administration Building. The reported release of approximately 150 to 200 gallons of diesel oil to the ground in the area of the Emergency Generator may have impacted subsurface soil. In addition, there may have been other releases of diesel oil from the UST formerly located in this AOC.	Diesel oil may have been released directly to the soil from a leak in the UST or subsurface piping. Oil released to the ground may have migrated through shallow soil and impacted subsurface soils.	VOCs, PAHs, Metals, ETPH	Soil Borings SB-034, SB-035, MW-03  Monitoring Well MW-03
AOC 14 Maintenance Garage / Storage Areas	A heating oil furnace and associated 275-gallon heating oil AST is located along the southern wall of the Maintenance Garage. Gasoline is stored in this building. The garage is used to perform routine maintenance on power and other equipment. Several containers of liquid waste are stored in the Wood Shed. Waste oils and waste gasoline were observed to be stored on a containment pallet in this shed. Also, the concrete floor of this shed was observed to be heavily stained with oil.	Releases of petroleum products may have occurred during transfer and storage. Releases during filling could result from overflows at the exterior fill ports and tank vents. Releases during storage could result from leaks in the tanks and appurtenant piping. Releases of petroleum products within the building could have resulted in substances penetrating the concrete slab, and/or migrating through cracks or joints in the slab. These substances could then migrate to the underlying soil and possibly to groundwater. If the paint contained metals or PCBs, then flakes of paint could have accumulated on and impacted the ground surface beneath the garage.	VOCs, PAHs, ETPH, PCBs, Metals	Soil Borings SB-023, SB-037, SB-038
AOC 15 Pratt Building Mechanical Rooms	The Pratt Building Mechanical Rooms include the boiler room and the pool chemical supply room. The floor of the boiler room was observed to be stained in several areas. The pool chemical supply room was formerly used to add chlorine to circulated pool water and to back-flush the pool water. The floor of this room was also observed to be stained. The staining that was observed is typical for the mechanical functions served by these rooms.	Releases of hazardous substances or petroleum products could initially impact and penetrate the floor, and/or migrate toward joints and/or cracks in the floor. These substances could subsequently migrate to underlying soil and groundwater.	VOCs, PAHs, ETPH, Metals	Soil Borings SB-055, SB-056
AOC 16 Former Rubbish Burner / Shop / Garage	The Former Rubbish Burner, Shop, and Garage were located north of the driveway/parking area that is north of the Administration Building.	Hazardous substances or petroleum products may have been released during historic use of the former Rubbish Burner, Shop, and Garage. Substances released at the ground surface could initially impact and penetrate the surface soil or asphalt pavement and/or migrate toward cracks in the pavement or areas surrounding the pavement. Substances could then migrate to subsurface soil and possibly to groundwater. If the Rubbish Burner was an in-ground rubbish burner, then substances could have been released directly to subsurface soil.	VOCs, PAHs, ETPH, PCBs, Metals, PCBs, Pesticides, Herbicides	Soil Borings SB-006, SB-007, MW-02  Monitoring Well MW-02



<p><b>Table 4-1</b></p> <p><b>PRELIMINARY CONCEPTUAL SITE MODEL / PHASE II SUBSURFACE INVESTIGATION ACTIVITIES</b></p> <p><b>Former Mystic Oral School for the Deaf, Groton, Connecticut</b></p>				
Area of Concern	Description & Background	Potential Contaminant Sources and Migration Pathways	Constituents of Concern	Summary of Investigation
AOC 17 Loading Docks	The loading docks at the Site were used to receive goods and materials, including small quantities of chemicals, delivered to the Administration Building and the Durant Building. Loading docks are considered AOCs because they are likely areas for the handling of raw materials, chemical products, and wastes. Any product used within the facility is a constituent of concern at a loading dock. The loading docks did not appear to be stained.	Releases of hazardous substances or petroleum products could initially impact and penetrate the concrete docks or adjacent asphalt pavement and/or migrate toward cracks in the concrete or pavement or toward areas surrounding the pavement. These substances could then migrate to the underlying soil and possibly to groundwater.	VOCs, PAHs, ETPH, Metals	Soil Boring SB-028

**Abbreviations**

- AOC: Area of Concern
- AST: Aboveground Storage Tank
- ETPH: Extractable Total Petroleum Hydrocarbons
- MW: Monitoring Well
- PAHs: Polynuclear Aromatic Hydrocarbons
- PCBs: Polychlorinated Biphenyls
- SB: Soil Boring
- UST: Underground Storage Tank
- VOCs: Volatile Organic Compounds



## Summary of Analytical Qualifiers



Qualifier	Class	Description
*		Result reported from analysis done by EPA Method 8021 (certain 8260 samples)
*	Metal	Duplicate analysis not within control limits
+	Metal	Correlation coefficient for MSA < 0.995
>>		Large but unquantified amount present
A	Organic	TIC is a possible aldol-condensation product
A	SVOL	Detection limit based on signal to noise ratio (8290 - Dioxins/Furans)
B		Analyte also present in laboratory method blank
B	Organic	Analyte was also detected in the blank
B	Metal	Value is less than CRDL, but greater than IDL
C	Pesticide	Pesticide result confirmed by GC/MS
D	Organic	Compound quantitated on a diluted sample
E	Organic	Concentration exceeds the calibration range of the instrument
E	Metal	Estimated due to interference
H		Result exceeds calibration range
J		Estimated value; sample analyzed after two week holding time had expired (AEL 289-28-198)
J	Organic	Estimated value (refer to case or Tier II narrative)
J1		Estimated value; % difference of daily calibration standard outside control limits
J10a		Estimated value; surrogate recoveries outside of control limits
J11		Estimated value; concentration above calibration range
J3		Estimated value; low surrogate % recovery
J4		Estimated value; surrogate recoveries outside of control limits
J5		Estimated value; RPD of duplicate sample outside control limits
J6		Estimated value; compound possibly present in sample but qualified due to low level blank contamination
J7		Estimated value; compound not present in blank but presence in sample believed to be attributable to possible laboratory contamination
L		Spectral evidence confirms presence at a concentration below the calibration limit but above the Method Detection Limit
M	Metal	Duplicate injection precision not met
M	Organic	Methanol extraction used in lab.
N	Organic	Presumptive evidence of a compound (TICs only)
N	Metal	Spike sample not within control limits
N1		Spectral Evidence confirms the presence of this compound at a concentration below the calibration limit
NA		Compound not included in analysis
ND		None detected; less than default detection limit
P	Organic	Concentration difference between primary and confirmation columns greater than 25%
S	Metal	Method of standard additions (MSA) used for calculation
U		None detected; qualified due to presence of compound in the blank
U		Compound was not detected
W	Metal	Post-digestion spike out of control limits
X		Refer to case narrative



## *Summary of Analytical Qualifiers*



Qualifier	Class	Description
XL		Used to indicate co-elution of two or more compounds
Y		Refer to case narrative
Z		Refer to case narrative



**Table 5-1**  
**SUMMARY OF SOIL SAMPLING AND ANALYTICAL INFORMATION**  
**Former Mystic Oral School for the Deaf**

Sample Information					Analysis Information							
Location ID	Sample ID	Sample Date	Sampled Interval (ft)	Sample Class	Analyt. Lab.	Volatile Organics	Semivolatile Organics	Herbicides	Pesticides/PCBs	Fuels/Oils	Metals	Miscellaneous Analyses
MW-01	1273755	01/24/2013	0 - 2	SB								
MW-01	1273756	01/24/2013	2 - 4	SB		x	x		x	X	X	
MW-01	1273757	01/24/2013	4 - 6	SB								
MW-01	1273758	01/24/2013	6 - 8	SB								
MW-01	1273759	01/24/2013	8 - 10	SB		x	x		x	x	X	
MW-01	1273760	01/24/2013	10 - 12	SB								
MW-02	1273775	01/24/2013	0 - 0.5	SB		x	X	x	x	X	X	
MW-02	1273776	01/24/2013	0.5 - 2.0	SB								
MW-02	1273777	01/24/2013	2 - 4	SB								
MW-02	1273778	01/24/2013	4 - 6	SB		x	x		x	x	X	
MW-02	1273779	01/24/2013	6 - 8	SB								
MW-02	1273780	01/24/2013	8 - 10	SB								
MW-03	1273829	01/28/2013	0 - 2	SB								
MW-03	1273830	01/28/2013	2 - 4	SB		x	x			X		
MW-03	1273831	01/28/2013	4 - 6	SB		x	x			X		
MW-03	1273832	01/28/2013	6 - 8	SB								
MW-03	1273833	01/28/2013	8 - 10	SB								
MW-03	1273834	01/28/2013	10 - 12.4	SB								
SB-001	1273750	01/24/2013	0 - 2	SB		X	x		x	X	X	
SB-001	1273751	01/24/2013	2 - 4	SB								
SB-001	1273752	01/24/2013	4 - 6	SB		x	x		x	x	X	
SB-001	1273753	01/24/2013	6 - 8	SB								
SB-001	1273754	01/24/2013	8 - 9	SB								
SB-002	1270649	01/24/2013	0 - 0.5	SB		X	x		x	X	X	
SB-002	1270650	01/24/2013	0.5 - 2	SB								
SB-003	1273768	01/24/2013	0 - 0.5	SB		x	X		x	X	X	
SB-003	1273769	01/24/2013	0.5 - 2.0	SB		x	X		x	X	X	
SB-004	1273744	01/24/2013	0 - 0.5	SB		x	x		x	X	X	
SB-004	1273745	01/24/2013	0.5 - 2	SB								
SB-005	1273770	01/24/2013	0 - 0.5	SB		x	x	x	x	X	X	
SB-005	1273771	01/24/2013	0.5 - 2.0	SB		x	x	x	x	X	X	
SB-005	1273772	01/24/2013	2 - 4	SB								



**Table 5-1**  
**SUMMARY OF SOIL SAMPLING AND ANALYTICAL INFORMATION**  
**Former Mystic Oral School for the Deaf**

Sample Information					Analysis Information							
Location ID	Sample ID	Sample Date	Sampled Interval (ft)	Sample Class	Analyt. Lab.	Volatile Organics	Semivolatile Organics	Herbicides	Pesticides/PCBs	Fuels/Oils	Metals	Miscellaneous Analyses
SB-005	1273773	01/24/2013	4 - 6	SB		x	x		x	x	X	
SB-005	1273774	01/24/2013	6 - 8	SB								
SB-006	1273746	01/24/2013	0 - 0.5	SB		x	x		x	X	X	
SB-006	1273747	01/24/2013	0.5 - 2	SB								
SB-007	1273748	01/24/2013	0 - 0.5	SB		X	X		x	X	X	
SB-007	1273749	01/24/2013	0.5 - 2	SB								
SB-008	1273781	01/24/2013	0 - 0.5	SB		x	x	x	x	X	X	
SB-008	1273782	01/24/2013	0.5 - 2.0	SB		x	X		x	X	X	
SB-008	1273783	01/24/2013	2 - 4	SB								
SB-009	1273863	01/29/2013	0 - 1	SB		x	x			x	X	
SB-010	1273864	01/29/2013	0 - 1.8	SB		x	x			X	X	
SB-011	1273865	01/29/2013	0 - 1.5	SB		x	x			x	X	
SB-012	1273866	01/29/2013	0 - 2	SB		x	x			X	X	
SB-014	1273801	01/25/2013	0 - 2	SB			X		x	x	X	
SB-015	1273802	01/25/2013	0 - 2	SB			X		x	X	X	
SB-016	1273803	01/25/2013	0 - 2	SB			x		x	x	X	
SB-022	1273800	01/25/2013	0.0 - 0.5	SB		x	X		x	X		
SB-022	1273804	01/25/2013	0.5 - 2.0	SB		x	X			X		
SB-023	1273805	01/25/2013	0.0 - 0.5	SB		x	X		x	X	X	
SB-023	1273806	01/25/2013	0.5 - 2.0	SB		x	x			X	X	
SB-028	1273808	01/25/2013	0 - 2	SB		x	x			x	X	
SB-028	1273809	01/25/2013	2 - 4	SB								
SB-028	1273810	01/25/2013	4 - 5.5	SB		x	X			X	X	
SB-029	1273807	01/25/2013	0.0 - 2.0	SB		x	x			X	X	
SB-032	1273843	01/28/2013	0 - 2	SB								
SB-032	1273844	01/28/2013	2 - 4	SB		x	x			x		
SB-032	1273851	01/28/2013	4 - 6	SB								
SB-032	1273852	01/28/2013	6 - 7.5	SB		x	x			x		
SB-033	1273839	01/28/2013	0 - 2	SB								
SB-033	1273840	01/28/2013	2 - 4	SB		x	x			X		
SB-033	1273841	01/28/2013	4 - 6	SB		x	x			X		
SB-033	1273842	01/28/2013	6 - 7	SB								



**Table 5-1**  
**SUMMARY OF SOIL SAMPLING AND ANALYTICAL INFORMATION**  
**Former Mystic Oral School for the Deaf**

Sample Information					Analysis Information							
Location ID	Sample ID	Sample Date	Sampled Interval (ft)	Sample Class	Analyt. Lab.	Volatile Organics	Semivolatile Organics	Herbicides	Pesticides/PCBs	Fuels/Oils	Metals	Miscellaneous Analyses
SB-034	1273765	01/24/2013	0 - 2	SB		x	X			X		
SB-035	1273766	01/24/2013	0 - 2	SB		x	x			X		
SB-035	1273767	01/24/2013	0 - 2	SB		x	X			X		
SB-037	1273869	01/29/2013	0 - 2	SB		x	x			X		
SB-038	1273867	01/29/2013	0 - 2	SB		X	X		x	X	X	
SB-038	1273868	01/29/2013	0 - 2	SB		x	x		x	X	X	
SB-039	1273871	01/30/2013	0 - 2	SB		x	x			x		
SB-039	1273872	01/30/2013	0 - 2	SB								
SB-040	1273811	01/25/2013	0.0 - 0.5	SB		x	X		x	X	X	
SB-040	1273812	01/25/2013	0.5 - 2	SB		x	X		x	X	X	
SB-041	1273813	01/25/2013	0.0 - 0.5	SB		x	X		x	X	X	
SB-041	1273814	01/25/2013	0.5 - 2	SB		x	X		x	X	X	
SB-042	1273824	01/25/2013	0.0 - 2.5	SB		x	X		x	X	X	
SB-042	1273828	01/25/2013	0 - 2.5	SB		x	X		x	X	X	
SB-043	1273815	01/25/2013	0 - 2	SB		x	x		x	x	X	
SB-043	1273816	01/25/2013	0 - 2	SB		x	x		x	X	X	
SB-043	1273817	01/25/2013	2 - 4	SB								
SB-043	1273818	01/25/2013	4 - 6	SB								
SB-043	1273819	01/25/2013	6 - 8	SB		x	x		x	X	X	
SB-043	1273820	01/25/2013	8 - 10	SB								
SB-043	1273821	01/25/2013	10 - 12	SB								
SB-043	1273822	01/25/2013	12 - 14	SB								
SB-043	1273823	01/25/2013	14 - 16	SB								
SB-044	1273794	01/24/2013	0 - 2	SB								
SB-044	1273795	01/24/2013	2 - 4	SB								
SB-044	1273796	01/24/2013	4 - 6	SB								
SB-044	1273797	01/24/2013	6 - 8	SB								
SB-044	1273798	01/24/2013	8 - 10	SB								
SB-044	1273799	01/24/2013	10 - 12	SB								
SB-045	1273858	01/28/2013	0 - 2	SB		x	X		x	X		
SB-045	1273860	01/28/2013	0 - 2	SB		x	X		x	X		
SB-048	1273825	01/25/2013	0 - 2	SB			x			X		



**Table 5-1**  
**SUMMARY OF SOIL SAMPLING AND ANALYTICAL INFORMATION**  
**Former Mystic Oral School for the Deaf**

Sample Information					Analysis Information							
Location ID	Sample ID	Sample Date	Sampled Interval (ft)	Sample Class	Analyt. Lab.	Volatile Organics	Semivolatile Organics	Herbicides	Pesticides/PCBs	Fuels/Oils	Metals	Miscellaneous Analyses
SB-049	1273826	01/25/2013	0 - 2	SB			x			X		
SB-050	1273827	01/25/2013	0 - 2	SB			x			X		
SB-051	1273859	01/28/2013	0 - 2	SB		x	x			X		
SB-052	1273857	01/28/2013	0 - 2	SB		x	x			x		
SB-053	1273856	01/28/2013	0 - 2	SB		x	X			X		
SB-054	1273873	01/30/2013	0 - 2	SB		x	x			x		
SB-055	1273861	01/29/2013	0 - 2	SB		x	x			x	X	
SB-056	1273862	01/29/2013	0 - 2	SB		x	x				X	
SB-058	1273870	01/29/2013	0 - 2	SB		x	X			X	X	
SB-059	1273854	01/28/2013	0 - 2	SB		x	x			X	X	x
SB-059	1273855	01/28/2013	0 - 2	SB		x	x			X	X	X
SB-061	1273853	01/28/2013	0 - 1.8	SB		x	x			x	X	x
SB-062	1273845	01/28/2013	0 - 2	SB								
SB-062	1273846	01/28/2013	2 - 4	SB		x	x			X	X	
SB-062	1273847	01/28/2013	4 - 6	SB								
SB-062	1273848	01/28/2013	6 - 8	SB								
SB-062	1273849	01/28/2013	8 - 10	SB		x	x			x	X	
SB-062	1273850	01/28/2013	10 - 12	SB								
SB-063	1273835	01/28/2013	0 - 2	SB		x	X			X		
SB-063	1273836	01/28/2013	2 - 4	SB		x	X			X		
SB-063	1273837	01/28/2013	4 - 6	SB		x	X			X		
SB-063	1273838	01/28/2013	6 - 8	SB		x	X			X		
SS-01	1273761	01/24/2013	0 - 0.5	SB			X		x	X		
SS-02	1273762	01/24/2013	0 - 0.5	SB			X		x	X		
SS-03	1273763	01/24/2013	0 - 0.5	SB			X		x	X		
SS-07	1273741	01/24/2013	0 - 0.5	SB			X		x	X		
SS-08	1273742	01/24/2013	0 - 0.5	SB			X		x	X		
SS-09	1273743	01/24/2013	0 - 0.5	SB			X		x	X		
SS-13	1273764	01/24/2013	0 - 0.5	SB					x		X	
SS-14	1273784	01/24/2013	0 - 0.5	SB					x		X	
SS-15	1273785	01/24/2013	0 - 0.5	SB					x		X	
SS-16	1273786	01/24/2013	0 - 0.5	SB		X	X		x		X	



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**Table 5-3**  
**SUMMARY OF QA/QC SAMPLING AND ANALYTICAL INFORMATION**  
**Former Mystic Oral School for the Deaf**

Sample Information					Analysis Information							
Location ID	Sample ID	Sample Date	Sampled Interval (ft)	Sample Class	Analyt. Lab.	Volatile Organics	Semivolatile Organics	Herbicides	Pesticides/PCBs	Fuels/Oils	Metals	Miscellaneous Analyses
EQUIPMENT	1273935	01/24/2013		BKE		x	x		x	x	x	
EQUIPMENT	1273936	01/24/2013		BKE		x	x	x	x	x	x	
EQUIPMENT	1273933	01/25/2013		BKE								
EQUIPMENT	1273934	01/25/2013		BKE		x	x		x	x	x	
EQUIPMENT	1273929	01/28/2013		BKE		x	x			x		
EQUIPMENT	1273930	01/28/2013		BKE		X	X		x	x	x	x
EQUIPMENT	1273927	01/29/2013		BKE		x	x		x	x		
EQUIPMENT	1273926	01/30/2013		BKE		x	x			x		
EQUIPMENT	1273946	02/04/2013		BKE		x	x			x	x	
TRIP BLANK	1273937	01/24/2013		BKT		x						
TRIP BLANK	1273931	01/25/2013		BKT		x						
TRIP BLANK	1273932	01/28/2013		BKT		x						
TRIP BLANK	1273874	01/30/2013		BKT		x						
TRIP BLANK	1273947	02/04/2013		BKT		x						



**Table 6-1**  
**GROUNDWATER ELEVATIONS**  
**Former Mystic Oral School for the Deaf**



Monitoring Well Location ID	Well Depth <sup>1</sup>	Screened Interval <sup>1</sup>	Top of Riser Elevation <sup>2</sup>	Depth-to-Water <sup>3</sup>	Groundwater Elevation <sup>2</sup>
MW-01	18.55	5 - 15	157.58	10.72	146.86
MW-02	10.15	5 - 10	156.87	5.19	151.68
MW-03	14.87	5 - 15	156.88	5.43	151.45

**Notes**

<sup>1</sup> Measured in feet below ground surface.

<sup>2</sup> Elevation in feet relative to the North American Vertical Datum (NAVD 88).

Top of riser surveyed by Loureiro Engineering Associates, Inc. field personnel on January 29-30, 2013 relative to NAVD 88.

<sup>3</sup> Measured in feet below top of riser on February 4, 2013.



**Table 6-2**  
**SUMMARY OF CONSTITUENTS DETECTED IN SOIL**  
**Former Mystic Oral School for the Deaf**

	Location ID	MW-01	MW-01	MW-01	MW-02	MW-02	MW-03	MW-03
	Sample ID	1273756	1273756	1273759	1273775	1273778	1273830	1273831
	Sample Date	01/24/2013	01/24/2013	01/24/2013	01/24/2013	01/24/2013	01/28/2013	01/28/2013
	Sample Time	12:12	12:12	12:35	14:35	14:49	10:23	10:26
	Sample Depth	2' - 4'	2' - 4'	8' - 10'	0' - 0.5'	4' - 6'	2' - 4'	4' - 6'
	Laboratory	CONT	CONT	CONT	CONT	CONT	CONT	CONT
	Lab. Number	13A0643-34	13A0643-34RE1	13A0643-37	13A0643-46	13A0643-49	13A0744-12	13A0744-13
Constituent	Units							
Date Metals Analyzed	-	01/29/2013		01/29/2013	01/29/2013	01/29/2013		
Date Organics Analyzed	-							
Date Pesticides/Herbicides Analyzed	-							
Date Physical Analyzed	-		01/31/2013		01/30/2013		02/06/2013	02/06/2013
Date Semivolatile Organics Analyzed	-				01/29/2013			
Arsenic	mg/kg							
Barium	mg/kg	61		23	63	18		
Cadmium	mg/kg							
Chromium, Total	mg/kg	14		5.0	13	8.4		
Copper	mg/kg	14		3.8	12	8.0		
Lead	mg/kg	170		2.1	26	3.6		
Mercury	mg/kg	0.10			0.12			
Nickel	mg/kg	6.6		2.7	7.6	4.4		
Silver	mg/kg							
Zinc	mg/kg	77		10	44	25		
Chlordane	ug/kg							
Heptachlor Epoxide	ug/kg							
Cyanide	mg/kg							
Total Petroleum Hydrocarbons (CT ETPH)	mg/kg		32		81		25	250
Acenaphthylene	ug/kg							
Benzo[a]anthracene	ug/kg				280			
Benzo[b]fluoranthene	ug/kg				450			
Benzo(a)pyrene	ug/kg				290			
Benzo(g,h,i)perylene	ug/kg							
Benzo(k)fluoranthene	ug/kg							
Chrysene	ug/kg				340			
Dibenz(a,h)anthracene	ug/kg							
Fluoranthene	ug/kg				630			



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**Table 6-2**  
**SUMMARY OF CONSTITUENTS DETECTED IN SOIL**  
**Former Mystic Oral School for the Deaf**

	Location ID	SB-001	SB-001	SB-001	SB-002	SB-002	SB-003	SB-003
	Sample ID	1273750	1273750	1273752	1270649	1270649	1273768	1273768
	Sample Date	01/24/2013	01/24/2013	01/24/2013	01/24/2013	01/24/2013	01/24/2013	01/24/2013
	Sample Time	11:27	11:27	11:37	13:10	13:10	13:40	13:40
	Sample Depth	0' - 2'	0' - 2'	4' - 6'	0' - 0.5'	0' - 0.5'	0' - 0.5'	0' - 0.5'
	Laboratory	CONT	CONT	CONT	CONT	CONT	CONT	CONT
	Lab. Number	13A0643-28	13A0643-28RE1	13A0643-30	13A0643-11	13A0643-11RE1	13A0643-39	13A0643-39RE1
Constituent	Units							
Date Metals Analyzed	-	01/29/2013		01/29/2013	01/29/2013		01/29/2013	
Date Organics Analyzed	-	01/30/2013			01/31/2013			
Date Pesticides/Herbicides Analyzed	-							
Date Physical Analyzed	-		01/31/2013			01/31/2013		01/31/2013
Date Semivolatile Organics Analyzed	-						01/29/2013	
Arsenic	mg/kg							
Barium	mg/kg	29		34	46		53	
Cadmium	mg/kg							
Chromium, Total	mg/kg	9.7		20	16		14	
Copper	mg/kg	5.2		11	13		17	
Lead	mg/kg	9.9		6.4	4.5		7.4	
Mercury	mg/kg			0.11				
Nickel	mg/kg	7.2		8.5	11		11	
Silver	mg/kg							
Zinc	mg/kg	18		23	25		47	
Chlordane	ug/kg							
Heptachlor Epoxide	ug/kg							
Cyanide	mg/kg							
Total Petroleum Hydrocarbons (CT ETPH)	mg/kg		38			16		66
Acenaphthylene	ug/kg							
Benzo[a]anthracene	ug/kg							
Benzo[b]fluoranthene	ug/kg						400	
Benzo(a)pyrene	ug/kg						240	
Benzo(g,h,i)perylene	ug/kg							
Benzo(k)fluoranthene	ug/kg							
Chrysene	ug/kg						240	
Dibenz(a,h)anthracene	ug/kg							
Fluoranthene	ug/kg						360	



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**Table 6-2**  
**SUMMARY OF CONSTITUENTS DETECTED IN SOIL**  
**Former Mystic Oral School for the Deaf**

	Location ID	SB-003	SB-003	SB-004	SB-004	SB-005	SB-005	SB-005
	Sample ID	1273769	1273769	1273744	1273744	1273770	1273770	1273771
	Sample Date	01/24/2013	01/24/2013	01/24/2013	01/24/2013	01/24/2013	01/24/2013	01/24/2013
	Sample Time	13:47	13:47	10:08	10:08	13:58	13:58	13:58
	Sample Depth	0.5' - 2.0'	0.5' - 2.0'	0' - 0.5'	0' - 0.5'	0' - 0.5'	0' - 0.5'	0.5' - 2.0'
	Laboratory	CONT	CONT	CONT	CONT	CONT	CONT	CONT
	Lab. Number	13A0643-40	13A0643-40RE1	13A0643-22	13A0643-22RE1	13A0643-41	13A0643-41RE1	13A0643-42
Constituent	Units							
Date Metals Analyzed	-	01/29/2013		01/29/2013		01/29/2013		01/29/2013
Date Organics Analyzed	-							
Date Pesticides/Herbicides Analyzed	-							
Date Physical Analyzed	-		01/31/2013		01/31/2013		01/31/2013	01/31/2013
Date Semivolatile Organics Analyzed	-	01/29/2013						
Arsenic	mg/kg	3.0		8.6				
Barium	mg/kg	62		45		52		50
Cadmium	mg/kg							
Chromium, Total	mg/kg	11		32		16		16
Copper	mg/kg	13		16		9.7		11
Lead	mg/kg	12		16		8.3		8.1
Mercury	mg/kg			0.067		0.043		0.041
Nickel	mg/kg	7.5		11		9.8		8.5
Silver	mg/kg							
Zinc	mg/kg	32		41		28		27
Chlordane	ug/kg							
Heptachlor Epoxide	ug/kg							
Cyanide	mg/kg							
Total Petroleum Hydrocarbons (CT ETPH)	mg/kg		61		290		38	47
Acenaphthylene	ug/kg							
Benzo[a]anthracene	ug/kg	410						
Benzo[b]fluoranthene	ug/kg	740						
Benzo(a)pyrene	ug/kg	480						
Benzo(g,h,i)perylene	ug/kg	260						
Benzo(k)fluoranthene	ug/kg	260						
Chrysene	ug/kg	610						
Dibenz(a,h)anthracene	ug/kg							
Fluoranthene	ug/kg	970						



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**Table 6-2**  
**SUMMARY OF CONSTITUENTS DETECTED IN SOIL**  
**Former Mystic Oral School for the Deaf**

	Location ID	SB-005	SB-006	SB-006	SB-006	SB-007	SB-007	SB-007
	Sample ID	1273773	1273746	1273746	1273746	1273748	1273748	1273748
	Sample Date	01/24/2013	01/24/2013	01/24/2013	01/24/2013	01/24/2013	01/24/2013	01/24/2013
	Sample Time	14:10	10:13	10:13	10:13	10:20	10:20	10:20
	Sample Depth	4' - 6'	0' - 0.5'	0' - 0.5'	0' - 0.5'	0' - 0.5'	0' - 0.5'	0' - 0.5'
	Laboratory	CONT	CONT	CONT	CONT	CONT	CONT	CONT
	Lab. Number	13A0643-44	13A0643-24	13A0643-24RE1	13A0643-24RE2	13A0643-26	13A0643-26RE1	13A0643-26m
Constituent	Units							
Date Metals Analyzed	-	01/29/2013	01/29/2013			01/29/2013		
Date Organics Analyzed	-					01/29/2013		01/31/2013
Date Pesticides/Herbicides Analyzed	-							
Date Physical Analyzed	-			01/31/2013	02/01/2013		01/31/2013	
Date Semivolatile Organics Analyzed	-					01/30/2013		
Arsenic	mg/kg							
Barium	mg/kg	22	55			35		
Cadmium	mg/kg							
Chromium, Total	mg/kg	5.7	19			18		
Copper	mg/kg	4.3	11			20		
Lead	mg/kg	1.8	27			66		
Mercury	mg/kg		0.048			0.057		
Nickel	mg/kg	2.8	9.9			10		
Silver	mg/kg							
Zinc	mg/kg	14	38			37		
Chlordane	ug/kg							
Heptachlor Epoxide	ug/kg							
Cyanide	mg/kg							
Total Petroleum Hydrocarbons (CT ETPH)	mg/kg			63	73		450	
Acenaphthylene	ug/kg							
Benzo[a]anthracene	ug/kg					270		
Benzo[b]fluoranthene	ug/kg					770		
Benzo(a)pyrene	ug/kg					370		
Benzo(g,h,i)perylene	ug/kg					200		
Benzo(k)fluoranthene	ug/kg					250		
Chrysene	ug/kg					460		
Dibenz(a,h)anthracene	ug/kg							
Fluoranthene	ug/kg					750		



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**Table 6-2**  
**SUMMARY OF CONSTITUENTS DETECTED IN SOIL**  
**Former Mystic Oral School for the Deaf**

	Location ID	SB-008	SB-008	SB-009	SB-010	SB-011	SB-012	SB-014
	Sample ID	1273781	1273782	1273863	1273864	1273865	1273866	1273801
	Sample Date	01/24/2013	01/24/2013	01/29/2013	01/29/2013	01/29/2013	01/29/2013	01/25/2013
	Sample Time	15:05	15:10	11:45	13:05	13:30	14:15	15:55
	Sample Depth	0' - 0.5'	0.5' - 2.0'	0' - 1'	0' - 1.8'	0' - 1.5'	0' - 2'	0' - 2'
	Laboratory	CONT	CONT	CONT	CONT	CONT	CONT	CONT
	Lab. Number	13A0643-52	13A0643-53	13A0745-03	13A0745-04	13A0745-05	13A0745-06	13A0687-38
Constituent	Units							
Date Metals Analyzed	-	01/29/2013	01/29/2013	02/02/2013	02/02/2013	02/02/2013	02/02/2013	01/30/2013
Date Organics Analyzed	-							
Date Pesticides/Herbicides Analyzed	-							
Date Physical Analyzed	-	01/31/2013	01/30/2013		02/05/2013		02/05/2013	
Date Semivolatile Organics Analyzed	-		01/31/2013					01/31/2013
Arsenic	mg/kg							
Barium	mg/kg	45	31	50	60	62	62	14
Cadmium	mg/kg	0.35						
Chromium, Total	mg/kg	16	23	11	19	19	17	8.0
Copper	mg/kg	11	18	8.8	24	14	15	2.9
Lead	mg/kg	12	49	6.0	5.1	5.3	5.6	3.3
Mercury	mg/kg	0.041	0.041					
Nickel	mg/kg	9.1	9.3	7.5	14	12	11	3.8
Silver	mg/kg							
Zinc	mg/kg	40	42	25	25	22	23	15
Chlordane	ug/kg							
Heptachlor Epoxide	ug/kg							
Cyanide	mg/kg							
Total Petroleum Hydrocarbons (CT ETPH)	mg/kg	43	1000		11		16	
Acenaphthylene	ug/kg		1700					
Benzo[a]anthracene	ug/kg		2200					
Benzo[b]fluoranthene	ug/kg		6200					
Benzo(a)pyrene	ug/kg		4100					
Benzo(g,h,i)perylene	ug/kg		3400					
Benzo(k)fluoranthene	ug/kg		2200					
Chrysene	ug/kg		3600					
Dibenz(a,h)anthracene	ug/kg							
Fluoranthene	ug/kg		3400					



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**Table 6-2**  
**SUMMARY OF CONSTITUENTS DETECTED IN SOIL**  
**Former Mystic Oral School for the Deaf**

	Location ID	SB-015	SB-016	SB-022	SB-022	SB-023	SB-023	SB-023
	Sample ID	1273802	1273803	1273800	1273804	1273805	1273805	1273806
	Sample Date	01/25/2013	01/25/2013	01/25/2013	01/25/2013	01/25/2013	01/25/2013	01/25/2013
	Sample Time	15:50	16:05	10:45	10:50	11:05	11:05	11:10
	Sample Depth	0' - 2'	0' - 2'	0.0' - 0.5'	0.5' - 2.0'	0.0' - 0.5'	0.0' - 0.5'	0.5' - 2.0'
	Laboratory	CONT	CONT	CONT	CONT	CONT	CONT	CONT
	Lab. Number	13A0687-39	13A0687-40	13A0687-01	13A0687-02	13A0687-03	13A0687-03RE1	13A0687-04
Constituent	Units							
Date Metals Analyzed	-	01/30/2013	01/30/2013			02/01/2013		02/01/2013
Date Organics Analyzed	-							
Date Pesticides/Herbicides Analyzed	-							
Date Physical Analyzed	-	02/01/2013		01/31/2013	01/31/2013	02/01/2013		01/31/2013
Date Semivolatile Organics Analyzed	-	01/31/2013		01/31/2013	01/31/2013	01/31/2013	01/31/2013	
Arsenic	mg/kg							
Barium	mg/kg	14	34			55		34
Cadmium	mg/kg					0.44		
Chromium, Total	mg/kg	10	4.9			13		14
Copper	mg/kg	3.4	5.1			16		8.7
Lead	mg/kg	5.9	1.9			610		14
Mercury	mg/kg					0.13		0.040
Nickel	mg/kg	4.9	3.3			7.2		7.4
Silver	mg/kg							
Zinc	mg/kg	18	16			160		36
Chlordane	ug/kg							
Heptachlor Epoxide	ug/kg							
Cyanide	mg/kg							
Total Petroleum Hydrocarbons (CT ETPH)	mg/kg	140		65	82	240		44
Acenaphthylene	ug/kg	770						
Benzo[a]anthracene	ug/kg	930			220	4700		
Benzo[b]fluoranthene	ug/kg	1100			320	4400		
Benzo(a)pyrene	ug/kg	960			230	3400		
Benzo(g,h,i)perylene	ug/kg	820				1000		
Benzo(k)fluoranthene	ug/kg	520				1500		
Chrysene	ug/kg	1000			290	5500		
Dibenz(a,h)anthracene	ug/kg					530		
Fluoranthene	ug/kg	2000		320	400	8000		



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**Table 6-2**  
**SUMMARY OF CONSTITUENTS DETECTED IN SOIL**  
**Former Mystic Oral School for the Deaf**

	Location ID	SB-028	SB-028	SB-029	SB-033	SB-033	SB-034	SB-034
	Sample ID	1273808	1273810	1273807	1273840	1273841	1273765	1273765
	Sample Date	01/25/2013	01/25/2013	01/25/2013	01/28/2013	01/28/2013	01/24/2013	01/24/2013
	Sample Time	11:50	12:00	11:30	11:20	11:22	11:33	11:33
	Sample Depth	0' - 2'	4' - 5.5'	0.0' - 2.0'	2' - 4'	4' - 6'	0' - 2'	0' - 2'
	Laboratory	CONT	CONT	CONT	CONT	CONT	CONT	CONT
	Lab. Number	13A0687-06	13A0687-08	13A0687-05	13A0744-22	13A0744-23	13A0643-14	13A0643-14RE1
Constituent	Units							
Date Metals Analyzed	-	01/30/2013	01/30/2013	01/30/2013				
Date Organics Analyzed	-							
Date Pesticides/Herbicides Analyzed	-							
Date Physical Analyzed	-		01/31/2013	01/31/2013	02/06/2013	02/06/2013		01/31/2013
Date Semivolatile Organics Analyzed	-		01/31/2013				01/28/2013	
Arsenic	mg/kg							
Barium	mg/kg	24	24	23				
Cadmium	mg/kg							
Chromium, Total	mg/kg	7.8	12	9.4				
Copper	mg/kg	6.2	6.6	3.5				
Lead	mg/kg	3.4	1.9	9.0				
Mercury	mg/kg			0.042				
Nickel	mg/kg	5.0	5.0	4.4				
Silver	mg/kg							
Zinc	mg/kg	16	15	18				
Chlordane	ug/kg							
Heptachlor Epoxide	ug/kg							
Cyanide	mg/kg							
Total Petroleum Hydrocarbons (CT ETPH)	mg/kg		200	24	20	11		55
Acenaphthylene	ug/kg							
Benzo[a]anthracene	ug/kg							
Benzo[b]fluoranthene	ug/kg							
Benzo(a)pyrene	ug/kg							
Benzo(g,h,i)perylene	ug/kg							
Benzo(k)fluoranthene	ug/kg							
Chrysene	ug/kg							
Dibenz(a,h)anthracene	ug/kg							
Fluoranthene	ug/kg						520	



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**Table 6-2**  
**SUMMARY OF CONSTITUENTS DETECTED IN SOIL**  
**Former Mystic Oral School for the Deaf**

	Location ID	SB-035	SB-035	SB-035	SB-037	SB-038	SB-038	SB-040
	Sample ID	1273766	1273767	1273767	1273869	1273867	1273868	1273811
	Sample Date	01/24/2013	01/24/2013	01/24/2013	01/29/2013	01/29/2013	01/29/2013	01/25/2013
	Sample Time	11:38	11:38	11:38	15:05	14:37	14:37	13:20
	Sample Depth	0' - 2'	0' - 2'	0' - 2'	0' - 2'	0' - 2'	0' - 2'	0.0' - 0.5'
	Laboratory	CONT	CONT	CONT	CONT	CONT	CONT	CONT
	Lab. Number	13A0643-12RE1	13A0643-13	13A0643-13RE1	13A0745-09	13A0745-07	13A0745-08	13A0687-09
Constituent	Units							
Date Metals Analyzed	-					02/02/2013	02/02/2013	01/30/2013
Date Organics Analyzed	-					02/01/2013		
Date Pesticides/Herbicides Analyzed	-							
Date Physical Analyzed	-	01/31/2013		01/31/2013	02/05/2013	02/06/2013	02/06/2013	01/31/2013
Date Semivolatile Organics Analyzed	-		01/28/2013			02/04/2013		01/31/2013
Arsenic	mg/kg							
Barium	mg/kg					42	35	38
Cadmium	mg/kg							
Chromium, Total	mg/kg					9.6	7.1	10
Copper	mg/kg					17	14	14
Lead	mg/kg					76	52	32
Mercury	mg/kg							0.13
Nickel	mg/kg					6.9	5.5	6.3
Silver	mg/kg					0.78		
Zinc	mg/kg					25	19	37
Chlordane	ug/kg							
Heptachlor Epoxide	ug/kg							
Cyanide	mg/kg							
Total Petroleum Hydrocarbons (CT ETPH)	mg/kg	38		61	19	570	470	100
Acenaphthylene	ug/kg							770
Benzo[a]anthracene	ug/kg							5300
Benzo[b]fluoranthene	ug/kg							4400
Benzo(a)pyrene	ug/kg							3600
Benzo(g,h,i)perylene	ug/kg							1500
Benzo(k)fluoranthene	ug/kg							1600
Chrysene	ug/kg							4400
Dibenz(a,h)anthracene	ug/kg							420
Fluoranthene	ug/kg							



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**Table 6-2**  
**SUMMARY OF CONSTITUENTS DETECTED IN SOIL**  
**Former Mystic Oral School for the Deaf**

	Location ID	SB-040	SB-040	SB-041	SB-041	SB-042	SB-042	SB-043
	Sample ID	1273811	1273812	1273813	1273814	1273824	1273828	1273815
	Sample Date	01/25/2013	01/25/2013	01/25/2013	01/25/2013	01/25/2013	01/25/2013	01/25/2013
	Sample Time	13:20	13:25	13:45	13:50	15:00	15:00	14:00
	Sample Depth	0.0' - 0.5'	0.5' - 2'	0.0' - 0.5'	0.5' - 2'	0.0' - 2.5'	0' - 2.5'	0' - 2'
	Laboratory	CONT	CONT	CONT	CONT	CONT	CONT	CONT
	Lab. Number	13A0687-09RE1	13A0687-10	13A0687-11	13A0687-12	13A0687-22	13A0687-23	13A0687-13
Constituent	Units							
Date Metals Analyzed	-		01/30/2013	01/30/2013	01/30/2013	01/30/2013	01/30/2013	01/30/2013
Date Organics Analyzed	-							
Date Pesticides/Herbicides Analyzed	-							
Date Physical Analyzed	-		02/01/2013	02/01/2013	02/01/2013	02/01/2013	02/01/2013	
Date Semivolatile Organics Analyzed	-	01/31/2013	01/31/2013	01/31/2013	01/31/2013	01/31/2013	01/31/2013	
Arsenic	mg/kg							
Barium	mg/kg		41	51	45	41	41	34
Cadmium	mg/kg							
Chromium, Total	mg/kg		11	14	14	9.5	7.9	8.7
Copper	mg/kg		10	9.2	9.8	9.8	11	8.4
Lead	mg/kg		18	24	15	7.3	6.9	2.0
Mercury	mg/kg		0.036	0.040	0.055			
Nickel	mg/kg		6.3	7.4	7.7	5.6	4.0	4.8
Silver	mg/kg							
Zinc	mg/kg		36	50	42	31	38	15
Chlordane	ug/kg							
Heptachlor Epoxide	ug/kg							
Cyanide	mg/kg							
Total Petroleum Hydrocarbons (CT ETPH)	mg/kg		240	150	110	110	96	
Acenaphthylene	ug/kg				250	400	200	
Benzo[a]anthracene	ug/kg	5300	1400	1600	860	1400	440	
Benzo[b]fluoranthene	ug/kg		2500	2000	940	1800	550	
Benzo(a)pyrene	ug/kg		1700	1500	770	1600	520	
Benzo(g,h,i)perylene	ug/kg		600	560	460	1300	430	
Benzo(k)fluoranthene	ug/kg		820	670	330	630	240	
Chrysene	ug/kg		1600	1800	960	1600	500	
Dibenz(a,h)anthracene	ug/kg							
Fluoranthene	ug/kg	11000	2600	3000	1600	2500	850	



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**Table 6-2**  
**SUMMARY OF CONSTITUENTS DETECTED IN SOIL**  
**Former Mystic Oral School for the Deaf**

	Location ID	SB-043	SB-043	SB-045	SB-045	SB-048	SB-049	SB-050
	Sample ID	1273816	1273819	1273858	1273860	1273825	1273826	1273827
	Sample Date	01/25/2013	01/25/2013	01/28/2013	01/28/2013	01/25/2013	01/25/2013	01/25/2013
	Sample Time	14:00	14:15	14:24	14:24	11:40	14:18	15:10
	Sample Depth	0' - 2'	6' - 8'	0' - 2'	0' - 2'	0' - 2'	0' - 2'	0' - 2'
	Laboratory	CONT	CONT	CONT	CONT	CONT	CONT	CONT
	Lab. Number	13A0687-14	13A0687-17	13A0744-09	13A0744-37	13A0687-24	13A0687-25	13A0687-26
Constituent	Units							
Date Metals Analyzed	-	01/30/2013	01/30/2013					
Date Organics Analyzed	-							
Date Pesticides/Herbicides Analyzed	-							
Date Physical Analyzed	-	02/01/2013	02/01/2013	02/06/2013	02/06/2013	02/01/2013	02/01/2013	02/01/2013
Date Semivolatile Organics Analyzed	-			02/04/2013	02/04/2013			
Arsenic	mg/kg							
Barium	mg/kg	34	34					
Cadmium	mg/kg							
Chromium, Total	mg/kg	9.0	9.2					
Copper	mg/kg	7.8	6.2					
Lead	mg/kg	2.2	5.6					
Mercury	mg/kg							
Nickel	mg/kg	5.0	5.8					
Silver	mg/kg							
Zinc	mg/kg	14	34					
Chlordane	ug/kg							
Heptachlor Epoxide	ug/kg							
Cyanide	mg/kg							
Total Petroleum Hydrocarbons (CT ETPH)	mg/kg	13	27	23	14	24	20	43
Acenaphthylene	ug/kg							
Benzo[a]anthracene	ug/kg							
Benzo[b]fluoranthene	ug/kg				260			
Benzo(a)pyrene	ug/kg				220			
Benzo(g,h,i)perylene	ug/kg							
Benzo(k)fluoranthene	ug/kg							
Chrysene	ug/kg				250			
Dibenz(a,h)anthracene	ug/kg							
Fluoranthene	ug/kg			190	280			





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**Table 6-2**  
**SUMMARY OF CONSTITUENTS DETECTED IN SOIL**  
**Former Mystic Oral School for the Deaf**

	Location ID	SB-051	SB-053	SB-055	SB-056	SB-058	SB-059	SB-059
	Sample ID	1273859	1273856	1273861	1273862	1273870	1273854	1273855
	Sample Date	01/28/2013	01/28/2013	01/29/2013	01/29/2013	01/29/2013	01/28/2013	01/28/2013
	Sample Time	15:20	12:00	10:30	11:05	15:29	11:13	11:13
	Sample Depth	0' - 2'	0' - 2'	0' - 2'	0' - 2'	0' - 2'	0' - 2'	0' - 2'
	Laboratory	CONT	CONT	CONT	CONT	CONT	CONT	CONT
	Lab. Number	13A0744-10	13A0744-07	13A0745-01	13A0745-02	13A0745-10	13A0744-05	13A0744-06
Constituent	Units							
Date Metals Analyzed	-			02/02/2013	02/02/2013	02/02/2013	02/02/2013	02/02/2013
Date Organics Analyzed	-							
Date Pesticides/Herbicides Analyzed	-							
Date Physical Analyzed	-	02/06/2013	02/06/2013			02/05/2013	02/06/2013	02/06/2013
Date Semivolatile Organics Analyzed	-		02/04/2013			02/04/2013		
Arsenic	mg/kg							
Barium	mg/kg			31	89	93	31	50
Cadmium	mg/kg					0.98		
Chromium, Total	mg/kg			21	24	19	6.6	10
Copper	mg/kg			32	19	260	5.6	5.8
Lead	mg/kg			5.8	9.4	120	10	7.9
Mercury	mg/kg					0.17		
Nickel	mg/kg			14	16	8.5	3.5	6.9
Silver	mg/kg					0.70	0.56	
Zinc	mg/kg			26	26	280	26	26
Chlordane	ug/kg							
Heptachlor Epoxide	ug/kg							
Cyanide	mg/kg							1.1
Total Petroleum Hydrocarbons (CT ETPH)	mg/kg	15	12			240	30	140
Acenaphthylene	ug/kg							
Benzo[a]anthracene	ug/kg					740		
Benzo[b]fluoranthene	ug/kg					950		
Benzo(a)pyrene	ug/kg					770		
Benzo(g,h,i)perylene	ug/kg					340		
Benzo(k)fluoranthene	ug/kg					330		
Chrysene	ug/kg					920		
Dibenz(a,h)anthracene	ug/kg							
Fluoranthene	ug/kg					1100		



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**Table 6-2**  
**SUMMARY OF CONSTITUENTS DETECTED IN SOIL**  
**Former Mystic Oral School for the Deaf**

	Location ID	SB-061	SB-062	SB-062	SB-063	SB-063	SB-063	SB-063
	Sample ID	1273853	1273846	1273849	1273835	1273836	1273837	1273838
	Sample Date	01/28/2013	01/28/2013	01/28/2013	01/28/2013	01/28/2013	01/28/2013	01/28/2013
	Sample Time	10:15	12:01	14:20	10:51	10:55	11:01	11:07
	Sample Depth	0' - 1.8'	2' - 4'	8' - 10'	0' - 2'	2' - 4'	4' - 6'	6' - 8'
	Laboratory	CONT	CONT	CONT	CONT	CONT	CONT	CONT
	Lab. Number	13A0744-04	13A0744-28	13A0744-31	13A0744-17	13A0744-18	13A0744-19	13A0744-20
Constituent	Units							
Date Metals Analyzed	-	02/01/2013	02/02/2013	02/02/2013				
Date Organics Analyzed	-							
Date Pesticides/Herbicides Analyzed	-							
Date Physical Analyzed	-		02/05/2013		02/06/2013	02/06/2013	02/06/2013	02/06/2013
Date Semivolatile Organics Analyzed	-				02/04/2013	02/04/2013	02/04/2013	02/04/2013
Arsenic	mg/kg							
Barium	mg/kg	33	14	120				
Cadmium	mg/kg							
Chromium, Total	mg/kg	8.4	5.3	4.8				
Copper	mg/kg	5.5	5.9	3.1				
Lead	mg/kg	7.5	3.3	3.6				
Mercury	mg/kg							
Nickel	mg/kg	4.5	2.8	2.0				
Silver	mg/kg			0.57				
Zinc	mg/kg	18	11	40				
Chlordane	ug/kg							
Heptachlor Epoxide	ug/kg							
Cyanide	mg/kg							
Total Petroleum Hydrocarbons (CT ETPH)	mg/kg		15		270	55	45	40
Acenaphthylene	ug/kg				240			
Benzo[a]anthracene	ug/kg				530	320	280	
Benzo[b]fluoranthene	ug/kg				860	390	340	
Benzo(a)pyrene	ug/kg				550	330	320	
Benzo(g,h,i)perylene	ug/kg				230	250	250	
Benzo(k)fluoranthene	ug/kg				330			
Chrysene	ug/kg				690	420	340	
Dibenz(a,h)anthracene	ug/kg							
Fluoranthene	ug/kg				1200	510	400	250



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**Table 6-2**  
**SUMMARY OF CONSTITUENTS DETECTED IN SOIL**  
**Former Mystic Oral School for the Deaf**

	Location ID	SS-01	SS-01	SS-02	SS-02	SS-03	SS-03	SS-07
	Sample ID	1273761	1273761	1273762	1273762	1273763	1273763	1273741
	Sample Date	01/24/2013	01/24/2013	01/24/2013	01/24/2013	01/24/2013	01/24/2013	01/24/2013
	Sample Time	11:05	11:05	11:08	11:08	11:13	11:13	09:50
	Sample Depth	0' - 0.5'	0' - 0.5'	0' - 0.5'	0' - 0.5'	0' - 0.5'	0' - 0.5'	0' - 0.5'
	Laboratory	CONT	CONT	CONT	CONT	CONT	CONT	CONT
	Lab. Number	13A0643-18	13A0643-18RE1	13A0643-17	13A0643-17RE1	13A0643-16	13A0643-16RE1	13A0643-19
Constituent	Units							
Date Metals Analyzed	-							
Date Organics Analyzed	-							
Date Pesticides/Herbicides Analyzed	-							
Date Physical Analyzed	-		01/31/2013		01/31/2013		01/31/2013	
Date Semivolatile Organics Analyzed	-	01/29/2013		01/30/2013		01/29/2013		01/30/2013
Arsenic	mg/kg							
Barium	mg/kg							
Cadmium	mg/kg							
Chromium, Total	mg/kg							
Copper	mg/kg							
Lead	mg/kg							
Mercury	mg/kg							
Nickel	mg/kg							
Silver	mg/kg							
Zinc	mg/kg							
Chlordane	ug/kg							
Heptachlor Epoxide	ug/kg							
Cyanide	mg/kg							
Total Petroleum Hydrocarbons (CT ETPH)	mg/kg		66		120		180	
Acenaphthylene	ug/kg			300				460
Benzo[a]anthracene	ug/kg	210		680		630		1200
Benzo[b]fluoranthene	ug/kg	380		940		1200		1400
Benzo(a)pyrene	ug/kg	260		720		790		1200
Benzo(g,h,i)perylene	ug/kg			500		300		960
Benzo(k)fluoranthene	ug/kg			380		390		550
Chrysene	ug/kg	340		950		1000		1400
Dibenz(a,h)anthracene	ug/kg							270
Fluoranthene	ug/kg	430		1500		1200		1900



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**Table 6-2**  
**SUMMARY OF CONSTITUENTS DETECTED IN SOIL**  
**Former Mystic Oral School for the Deaf**

	Location ID	SS-07	SS-08	SS-08	SS-09	SS-09	SS-13	SS-14
	Sample ID	1273741	1273742	1273742	1273743	1273743	1273764	1273784
	Sample Date	01/24/2013	01/24/2013	01/24/2013	01/24/2013	01/24/2013	01/24/2013	01/24/2013
	Sample Time	09:50	09:55	09:55	10:00	10:00	11:22	13:35
	Sample Depth	0' - 0.5'	0' - 0.5'	0' - 0.5'	0' - 0.5'	0' - 0.5'	0' - 0.5'	0' - 0.5'
	Laboratory	CONT	CONT	CONT	CONT	CONT	CONT	CONT
	Lab. Number	13A0643-19RE1	13A0643-20	13A0643-20RE1	13A0643-21	13A0643-21RE1	13A0643-15	13A0643-09
Constituent	Units							
Date Metals Analyzed	-						01/30/2013	01/30/2013
Date Organics Analyzed	-							
Date Pesticides/Herbicides Analyzed	-							
Date Physical Analyzed	-	01/31/2013		01/31/2013		01/31/2013		
Date Semivolatile Organics Analyzed	-		01/29/2013	01/30/2013	01/29/2013			
Arsenic	mg/kg							
Barium	mg/kg							
Cadmium	mg/kg							
Chromium, Total	mg/kg							
Copper	mg/kg							
Lead	mg/kg						11	470
Mercury	mg/kg							
Nickel	mg/kg							
Silver	mg/kg							
Zinc	mg/kg							
Chlordane	ug/kg							
Heptachlor Epoxide	ug/kg							
Cyanide	mg/kg							
Total Petroleum Hydrocarbons (CT ETPH)	mg/kg	160		450		390		
Acenaphthylene	ug/kg		2600	3100	430			
Benzo[a]anthracene	ug/kg		9400	10000	2400			
Benzo[b]fluoranthene	ug/kg		9900	11000	3000			
Benzo(a)pyrene	ug/kg		7300	8400	2200			
Benzo(g,h,i)perylene	ug/kg		2100		870			
Benzo(k)fluoranthene	ug/kg		3600	4100	1000			
Chrysene	ug/kg		9800	11000	2600			
Dibenz(a,h)anthracene	ug/kg		880		350			
Fluoranthene	ug/kg		18000 E	22000	4400			



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**Table 6-2**  
**SUMMARY OF CONSTITUENTS DETECTED IN SOIL**  
**Former Mystic Oral School for the Deaf**

	Location ID	SS-15	SS-16	SS-18	SS-19	SS-21		
	Sample ID	1273785	1273786	1273788	1273789	1273791		
	Sample Date	01/24/2013	01/24/2013	01/24/2013	01/24/2013	01/24/2013		
	Sample Time	13:45	13:52	14:06	14:15	14:45		
	Sample Depth	0' - 0.5'	0' - 0.5'	0' - 0.5'	0' - 0.5'	0' - 0.5'		
	Laboratory	CONT	CONT	CONT	CONT	CONT		
	Lab. Number	13A0643-08	13A0643-07	13A0643-05	13A0643-04	13A0643-02		
Constituent	Units							
Date Metals Analyzed	-	01/30/2013	01/29/2013	01/30/2013	01/30/2013	01/29/2013		
Date Organics Analyzed	-		01/31/2013					
Date Pesticides/Herbicides Analyzed	-					01/28/2013		
Date Physical Analyzed	-							
Date Semivolatile Organics Analyzed	-		01/28/2013					
Arsenic	mg/kg							
Barium	mg/kg		46					
Cadmium	mg/kg		0.29					
Chromium, Total	mg/kg		13					
Copper	mg/kg		20					
Lead	mg/kg	15	260	730	570	21		
Mercury	mg/kg		0.048					
Nickel	mg/kg		6.9					
Silver	mg/kg							
Zinc	mg/kg		73					
Chlordane	ug/kg					210		
Heptachlor Epoxide	ug/kg					39		
Cyanide	mg/kg							
Total Petroleum Hydrocarbons (CT ETPH)	mg/kg							
Acenaphthylene	ug/kg							
Benzo[a]anthracene	ug/kg							
Benzo[b]fluoranthene	ug/kg		210					
Benzo(a)pyrene	ug/kg							
Benzo(g,h,i)perylene	ug/kg							
Benzo(k)fluoranthene	ug/kg							
Chrysene	ug/kg							
Dibenz(a,h)anthracene	ug/kg							
Fluoranthene	ug/kg		250					



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**Table 6-3**  
**LABORATORY ANALYTICAL RESULTS FOR SOIL SAMPLES**  
**Former Mystic Oral School for the Deaf**

	Location ID	MW-01	MW-01	MW-01	MW-01	MW-02	MW-02	MW-03
	Sample ID	1273756	1273756	1273759	1273759	1273775	1273778	1273830
	Sample Date	01/24/2013	01/24/2013	01/24/2013	01/24/2013	01/24/2013	01/24/2013	01/28/2013
	Sample Time	12:12	12:12	12:35	12:35	14:35	14:49	10:23
	Sample Depth	2' - 4'	2' - 4'	8' - 10'	8' - 10'	0' - 0.5'	4' - 6'	2' - 4'
	Laboratory	CONT	CONT	CONT	CONT	CONT	CONT	CONT
	Lab. Number	13A0643-34	13A0643-34RE1	13A0643-37	13A0643-37RE1	13A0643-46	13A0643-49	13A0744-12
Constituent	Units							
Date PCBs Analyzed	-	01/29/2013		01/29/2013		01/31/2013	01/31/2013	
Date Metals Analyzed	-	01/29/2013		01/29/2013		01/29/2013	01/29/2013	
Date Organics Analyzed	-	01/29/2013		01/29/2013		01/30/2013	01/30/2013	02/01/2013
Date Pesticides/Herbicides Analyzed	-					01/30/2013		
Date Physical Analyzed	-		01/31/2013		01/31/2013	01/30/2013	01/30/2013	02/06/2013
Date Semivolatile Organics Analyzed	-	01/30/2013		01/29/2013		01/29/2013	01/29/2013	02/04/2013
Alachlor	ug/kg					<24		
2,4,5-Trichlorophenoxyacetic acid	ug/kg					<3.0		
2,4-Dichlorophenoxyacetic acid	ug/kg					<30		
Dicamba	ug/kg					<3.0		
Dalapon	ug/kg					<74		
Silvex	ug/kg					<3.0		
Arsenic	mg/kg	<2.9		<2.6		<3.0	<2.9	
Barium	mg/kg	61		23		63	18	
Cadmium	mg/kg	<0.29		<0.26		<0.30	<0.29	
Chromium, Total	mg/kg	14		5.0		13	8.4	
Copper	mg/kg	14		3.8		12	8.0	
Lead	mg/kg	170		2.1		26	3.6	
Mercury	mg/kg	0.10		<0.027		0.12	<0.030	
Nickel	mg/kg	6.6		2.7		7.6	4.4	
Selenium	mg/kg	<5.9		<5.3		<5.9	<5.7	
Silver	mg/kg	<0.59		<0.53		<0.59	<0.57	
Zinc	mg/kg	77		10		44	25	
Arochlor 1016	ug/kg	<120		<110		<120	<120	
Arochlor 1221	ug/kg	<120		<110		<120	<120	
Arochlor 1232	ug/kg	<120		<110		<120	<120	
Arochlor 1242	ug/kg	<120		<110		<120	<120	
Arochlor 1248	ug/kg	<120		<110		<120	<120	



**Table 6-3**  
**LABORATORY ANALYTICAL RESULTS FOR SOIL SAMPLES**  
**Former Mystic Oral School for the Deaf**

	Location ID	MW-01	MW-01	MW-01	MW-01	MW-02	MW-02	MW-03
	Sample ID	1273756	1273756	1273759	1273759	1273775	1273778	1273830
	Sample Date	01/24/2013	01/24/2013	01/24/2013	01/24/2013	01/24/2013	01/24/2013	01/28/2013
	Sample Time	12:12	12:12	12:35	12:35	14:35	14:49	10:23
	Sample Depth	2' - 4'	2' - 4'	8' - 10'	8' - 10'	0' - 0.5'	4' - 6'	2' - 4'
	Laboratory	CONT	CONT	CONT	CONT	CONT	CONT	CONT
	Lab. Number	13A0643-34	13A0643-34RE1	13A0643-37	13A0643-37RE1	13A0643-46	13A0643-49	13A0744-12
Constituent	Units							
Arochlor 1254	ug/kg	<120		<110		<120	<120	
Arochlor 1260	ug/kg	<120		<110		<120	<120	
Arochlor 1262	ug/kg	<120		<110		<120	<120	
Arochlor 1268	ug/kg	<120		<110		<120	<120	
Aldrin	ug/kg					<5.9		
Hexachlorobenzene	ug/kg					<7.1		
Chlordane	ug/kg					<24		
BHC(alpha-)	ug/kg					<5.9		
BHC(beta-)	ug/kg					<5.9		
BHC(delta-)	ug/kg					<5.9		
Lindane	ug/kg					<2.4		
Dieldrin	ug/kg					<4.7		
Endrin	ug/kg					<9.4		
Endrin aldehyde	ug/kg					<9.4		
Endrin ketone	ug/kg					<9.4		
p,p'-DDT	ug/kg					<4.7		
Methoxychlor	ug/kg					<59		
p,p'-DDD	ug/kg					<4.7		
p,p'-DDE	ug/kg					<4.7		
Heptachlor Epoxide	ug/kg					<5.9		
Heptachlor	ug/kg					<5.9		
Endosulfan Sulfate	ug/kg					<9.4		
Alpha Endosulfan	ug/kg					<5.9		
Beta Endosulfan	ug/kg					<9.4		
Toxaphene	ug/kg					<120		
Cyanide	mg/kg							
Total Petroleum Hydrocarbons (CT ETPH)	mg/kg		32		<11	81	<24	25
Acenaphthylene	ug/kg	<200		<190		<200	<210	<190



**Table 6-3**  
**LABORATORY ANALYTICAL RESULTS FOR SOIL SAMPLES**  
**Former Mystic Oral School for the Deaf**

	Location ID	MW-01	MW-01	MW-01	MW-01	MW-02	MW-02	MW-03
	Sample ID	1273756	1273756	1273759	1273759	1273775	1273778	1273830
	Sample Date	01/24/2013	01/24/2013	01/24/2013	01/24/2013	01/24/2013	01/24/2013	01/28/2013
	Sample Time	12:12	12:12	12:35	12:35	14:35	14:49	10:23
	Sample Depth	2' - 4'	2' - 4'	8' - 10'	8' - 10'	0' - 0.5'	4' - 6'	2' - 4'
	Laboratory	CONT	CONT	CONT	CONT	CONT	CONT	CONT
	Lab. Number	13A0643-34	13A0643-34RE1	13A0643-37	13A0643-37RE1	13A0643-46	13A0643-49	13A0744-12
Constituent	Units							
Benzo[a]anthracene	ug/kg	<200		<190		280	<210	<190
Benzo[b]fluoranthene	ug/kg	<200		<190		450	<210	<190
Benzo(a)pyrene	ug/kg	<200		<190		290	<210	<190
Benzo(g,h,i)perylene	ug/kg	<200		<190		<200	<210	<190
Benzo(k)fluoranthene	ug/kg	<200		<190		<200	<210	<190
Chrysene	ug/kg	<200		<190		340	<210	<190
Dibenz(a,h)anthracene	ug/kg	<200		<190		<200	<210	<190
Fluoranthene	ug/kg	<200		<190		630	<210	<190
Fluorene	ug/kg	<200		<190		<200	<210	<190
Indeno(1,2,3-c,d)pyrene	ug/kg	<200		<190		270	<210	<190
Naphthalene	ug/kg	<4.1		<3.2		<4.2	<4.5	<4.9
Naphthalene	ug/kg	<200		<190		<200	<210	<190
Phenanthrene	ug/kg	<200		<190		320	<210	<190
Pyrene	ug/kg	<200		<190		540	<210	<190
1,2-Dichloropropane	ug/kg	<2.0		<1.6		<2.1	<2.2	<2.4
Acenaphthene	ug/kg	<200		<190		<200	<210	<190
Acetone	ug/kg	<100		<81		<100	<110	<120
Acrylonitrile	ug/kg	<6.1		<4.9		<6.3	<6.7	<7.3
Anthracene	ug/kg	<200		<190		<200	<210	<190
2-Hexanone	ug/kg	<20		<16		<21	<22	<24
Benzene	ug/kg	<2.0		<1.6		<2.1	<2.2	<2.4
1,2,3-Trichlorobenzene	ug/kg	<2.0		<1.6		<2.1	<2.2	<2.4
1,2,4-Trichlorobenzene	ug/kg	<2.0		<1.6		<2.1	<2.2	<2.4
1,2,4-Trimethylbenzene	ug/kg	<2.0		<1.6		<2.1	<2.2	<2.4
o-Dichlorobenzene	ug/kg	<2.0		<1.6		<2.1	<2.2	<2.4
1,3,5-Trimethylbenzene	ug/kg	<2.0		<1.6		<2.1	<2.2	<2.4
m-Dichlorobenzene	ug/kg	<2.0		<1.6		<2.1	<2.2	<2.4
p-Dichlorobenzene	ug/kg	<2.0		<1.6		<2.1	<2.2	<2.4



**Table 6-3**  
**LABORATORY ANALYTICAL RESULTS FOR SOIL SAMPLES**  
**Former Mystic Oral School for the Deaf**

	Location ID	MW-01	MW-01	MW-01	MW-01	MW-02	MW-02	MW-03
	Sample ID	1273756	1273756	1273759	1273759	1273775	1273778	1273830
	Sample Date	01/24/2013	01/24/2013	01/24/2013	01/24/2013	01/24/2013	01/24/2013	01/28/2013
	Sample Time	12:12	12:12	12:35	12:35	14:35	14:49	10:23
	Sample Depth	2' - 4'	2' - 4'	8' - 10'	8' - 10'	0' - 0.5'	4' - 6'	2' - 4'
	Laboratory	CONT	CONT	CONT	CONT	CONT	CONT	CONT
	Lab. Number	13A0643-34	13A0643-34RE1	13A0643-37	13A0643-37RE1	13A0643-46	13A0643-49	13A0744-12
Constituent	Units							
Bromobenzene	ug/kg	<2.0		<1.6		<2.1	<2.2	<2.4
Butyl Benzene	ug/kg	<2.0		<1.6		<2.1	<2.2	<2.4
Chlorobenzene	ug/kg	<2.0		<1.6		<2.1	<2.2	<2.4
Ethylbenzene	ug/kg	<2.0		<1.6		<2.1	<2.2	<2.4
Isopropylbenzene (Cumene)	ug/kg	<2.0		<1.6		<2.1	<2.2	<2.4
Propylbenzene	ug/kg	<2.0		<1.6		<2.1	<2.2	<2.4
sec-Butylbenzene	ug/kg	<2.0		<1.6		<2.1	<2.2	<2.4
tert-Butylbenzene	ug/kg	<2.0		<1.6		<2.1	<2.2	<2.4
Hexachlorobutadiene	ug/kg	<2.0		<1.6		<2.1	<2.2	<2.4
Methyl Ethyl ketone	ug/kg	<41		<32		<42	<45	<49
trans-1,4-Dichlorobutene	ug/kg	<4.1		<3.2		<4.2	<4.5	<4.9
Carbon Disulfide	ug/kg	<6.1		<4.9		<6.3	<6.7	<7.3
Carbon Tetrachloride	ug/kg	<2.0		<1.6		<2.1	<2.2	<2.4
4-Isopropyltoluene	ug/kg	<2.0		<1.6		<2.1	<2.2	<2.4
1,1,1,2-Tetrachloroethane	ug/kg	<2.0		<1.6		<2.1	<2.2	<2.4
1,1,1-Trichloroethane	ug/kg	<2.0		<1.6		<2.1	<2.2	<2.4
1,1,2,2-Tetrachloroethane	ug/kg	<1.0		<0.81		<1.0	<1.1	<1.2
1,1,2-Trichloroethane	ug/kg	<2.0		<1.6		<2.1	<2.2	<2.4
1,1,2-Trichlorotrifluoroethane	ug/kg	<10		<8.1		<10	<11	<12
1,1-Dichloroethane	ug/kg	<2.0		<1.6		<2.1	<2.2	<2.4
Ethylene Dibromide	ug/kg	<1.0		<0.81		<1.0	<1.1	<1.2
1,2-Dichloroethane	ug/kg	<2.0		<1.6		<2.1	<2.2	<2.4
Chloroethane	ug/kg	<20		<16		<21	<22	<24
Methyl tert-Butyl ether	ug/kg	<4.1		<3.2		<4.2	<4.5	<4.9
1,1-Dichloroethylene	ug/kg	<4.1		<3.2		<4.2	<4.5	<4.9
trans-1,2-Dichloroethylene	ug/kg	<2.0		<1.6		<2.1	<2.2	<2.4
cis-1,2-Dichloroethylene	ug/kg	<2.0		<1.6		<2.1	<2.2	<2.4
Vinyl Chloride	ug/kg	<10		<8.1		<10	<11	<12



**Table 6-3**  
**LABORATORY ANALYTICAL RESULTS FOR SOIL SAMPLES**  
**Former Mystic Oral School for the Deaf**

	Location ID	MW-01	MW-01	MW-01	MW-01	MW-02	MW-02	MW-03
	Sample ID	1273756	1273756	1273759	1273759	1273775	1273778	1273830
	Sample Date	01/24/2013	01/24/2013	01/24/2013	01/24/2013	01/24/2013	01/24/2013	01/28/2013
	Sample Time	12:12	12:12	12:35	12:35	14:35	14:49	10:23
	Sample Depth	2' - 4'	2' - 4'	8' - 10'	8' - 10'	0' - 0.5'	4' - 6'	2' - 4'
	Laboratory	CONT	CONT	CONT	CONT	CONT	CONT	CONT
	Lab. Number	13A0643-34	13A0643-34RE1	13A0643-37	13A0643-37RE1	13A0643-46	13A0643-49	13A0744-12
Constituent	Units							
Tetrachloroethylene	ug/kg	<2.0		<1.6		<2.1	<2.2	<2.4
Tetrahydrofuran	ug/kg	<10		<8.1		<10	<11	<12
Bromomethane	ug/kg	<10		<8.1		<10	<11	<12
Bromodichloromethane	ug/kg	<2.0		<1.6		<2.1	<2.2	<2.4
Chloromethane	ug/kg	<10		<8.1		<10	<11	<12
Chlorodibromomethane	ug/kg	<1.0		<0.81		<1.0	<1.1	<1.2
Methylene Dibromide	ug/kg	<2.0		<1.6		<2.1	<2.2	<2.4
Methylene Chloride	ug/kg	<20		<16		<21	<22	<24
Dichlorodifluoromethane	ug/kg	<20		<16		<21	<22	<24
Bromoform	ug/kg	<2.0		<1.6		<2.1	<2.2	<2.4
Chloroform	ug/kg	<4.1		<3.2		<4.2	<4.5	<4.9
Trichlorofluoromethane	ug/kg	<10		<8.1		<10	<11	<12
beta-Methylnaphthalene	ug/kg	<200		<190		<200	<210	<190
Methyl Isobutyl ketone	ug/kg	<20		<16		<21	<22	<24
1,2,3-Trichloropropane	ug/kg	<2.0		<1.6		<2.1	<2.2	<2.4
1,2-Dibromo-3-Chloropropane	ug/kg	<2.0		<1.6		<2.1	<2.2	<2.4
1,3-Dichloropropane	ug/kg	<1.0		<0.81		<1.0	<1.1	<1.2
sec-Dichloropropane	ug/kg	<2.0		<1.6		<2.1	<2.2	<2.4
1,1-Dichloropropene	ug/kg	<2.0		<1.6		<2.1	<2.2	<2.4
trans-1,3-Dichloropropene	ug/kg	<1.0		<0.81		<1.0	<1.1	<1.2
cis-1,3-Dichloropropene	ug/kg	<1.0		<0.81		<1.0	<1.1	<1.2
Styrene	ug/kg	<2.0		<1.6		<2.1	<2.2	<2.4
Toluene	ug/kg	<2.0		<1.6		<2.1	<2.2	<2.4
o-Chlorotoluene	ug/kg	<2.0		<1.6		<2.1	<2.2	<2.4
p-Chlorotoluene	ug/kg	<2.0		<1.6		<2.1	<2.2	<2.4
Trichloroethylene	ug/kg	<2.0		<1.6		<2.1	<2.2	<2.4
o-Xylene	ug/kg	<2.0		<1.6		<2.1	<2.2	<2.4
Xylenes,m- & p-	ug/kg	<4.1		<3.2		<4.2	<4.5	<4.9



**Table 6-3**  
**LABORATORY ANALYTICAL RESULTS FOR SOIL SAMPLES**  
**Former Mystic Oral School for the Deaf**

	Location ID	MW-03	MW-03	SB-001	SB-001	SB-001	SB-001	SB-002
	Sample ID	1273831	1273831	1273750	1273750	1273752	1273752	1270649
	Sample Date	01/28/2013	01/28/2013	01/24/2013	01/24/2013	01/24/2013	01/24/2013	01/24/2013
	Sample Time	10:26	10:26	11:27	11:27	11:37	11:37	13:10
	Sample Depth	4' - 6'	4' - 6'	0' - 2'	0' - 2'	4' - 6'	4' - 6'	0' - 0.5'
	Laboratory	CONT	CONT	CONT	CONT	CONT	CONT	CONT
	Lab. Number	13A0744-13	13A0744-13RE1	13A0643-28	13A0643-28RE1	13A0643-30	13A0643-30RE1	13A0643-11
Constituent	Units							
Date PCBs Analyzed	-			01/29/2013		01/29/2013		01/29/2013
Date Metals Analyzed	-			01/29/2013		01/29/2013		01/29/2013
Date Organics Analyzed	-	02/01/2013	02/01/2013	01/30/2013		01/29/2013		01/31/2013
Date Pesticides/Herbicides Analyzed	-							01/28/2013
Date Physical Analyzed	-	02/06/2013			01/31/2013		01/31/2013	
Date Semivolatile Organics Analyzed	-	02/04/2013		01/29/2013		01/29/2013		01/28/2013
Alachlor	ug/kg							<21
2,4,5-Trichlorophenoxyacetic acid	ug/kg							
2,4-Dichlorophenoxyacetic acid	ug/kg							
Dicamba	ug/kg							
Dalapon	ug/kg							
Silvex	ug/kg							
Arsenic	mg/kg			<2.7		<3.2		<2.6
Barium	mg/kg			29		34		46
Cadmium	mg/kg			<0.27		<0.32		<0.26
Chromium, Total	mg/kg			9.7		20		16
Copper	mg/kg			5.2		11		13
Lead	mg/kg			9.9		6.4		4.5
Mercury	mg/kg			<0.027		0.11		<0.027
Nickel	mg/kg			7.2		8.5		11
Selenium	mg/kg			<5.4		<6.3		<5.2
Silver	mg/kg			<0.54		<0.63		<0.52
Zinc	mg/kg			18		23		25
Arochlor 1016	ug/kg			<110		<130		<100
Arochlor 1221	ug/kg			<110		<130		<100
Arochlor 1232	ug/kg			<110		<130		<100
Arochlor 1242	ug/kg			<110		<130		<100
Arochlor 1248	ug/kg			<110		<130		<100



**Table 6-3**  
**LABORATORY ANALYTICAL RESULTS FOR SOIL SAMPLES**  
**Former Mystic Oral School for the Deaf**

	Location ID	MW-03	MW-03	SB-001	SB-001	SB-001	SB-001	SB-002
	Sample ID	1273831	1273831	1273750	1273750	1273752	1273752	1270649
	Sample Date	01/28/2013	01/28/2013	01/24/2013	01/24/2013	01/24/2013	01/24/2013	01/24/2013
	Sample Time	10:26	10:26	11:27	11:27	11:37	11:37	13:10
	Sample Depth	4' - 6'	4' - 6'	0' - 2'	0' - 2'	4' - 6'	4' - 6'	0' - 0.5'
	Laboratory	CONT	CONT	CONT	CONT	CONT	CONT	CONT
	Lab. Number	13A0744-13	13A0744-13RE1	13A0643-28	13A0643-28RE1	13A0643-30	13A0643-30RE1	13A0643-11
Constituent	Units							
Arochlor 1254	ug/kg			<110		<130		<100
Arochlor 1260	ug/kg			<110		<130		<100
Arochlor 1262	ug/kg			<110		<130		<100
Arochlor 1268	ug/kg			<110		<130		<100
Aldrin	ug/kg							<5.2
Hexachlorobenzene	ug/kg							<6.3
Chlordane	ug/kg							<21
BHC(alpha-)	ug/kg							<5.2
BHC(beta-)	ug/kg							<5.2
BHC(delta-)	ug/kg							<5.2
Lindane	ug/kg							<2.1
Dieldrin	ug/kg							<4.2
Endrin	ug/kg							<8.4
Endrin aldehyde	ug/kg							<8.4
Endrin ketone	ug/kg							<8.4
p,p'-DDT	ug/kg							<4.2
Methoxychlor	ug/kg							<52
p,p'-DDD	ug/kg							<4.2
p,p'-DDE	ug/kg							<4.2
Heptachlor Epoxide	ug/kg							<5.2
Heptachlor	ug/kg							<5.2
Endosulfan Sulfate	ug/kg							<8.4
Alpha Endosulfan	ug/kg							<5.2
Beta Endosulfan	ug/kg							<8.4
Toxaphene	ug/kg							<100
Cyanide	mg/kg							
Total Petroleum Hydrocarbons (CT ETPH)	mg/kg	250			38		<25	
Acenaphthylene	ug/kg	<500		<190		<440		<180



**Table 6-3**  
**LABORATORY ANALYTICAL RESULTS FOR SOIL SAMPLES**  
**Former Mystic Oral School for the Deaf**

	Location ID	MW-03	MW-03	SB-001	SB-001	SB-001	SB-001	SB-002
	Sample ID	1273831	1273831	1273750	1273750	1273752	1273752	1270649
	Sample Date	01/28/2013	01/28/2013	01/24/2013	01/24/2013	01/24/2013	01/24/2013	01/24/2013
	Sample Time	10:26	10:26	11:27	11:27	11:37	11:37	13:10
	Sample Depth	4' - 6'	4' - 6'	0' - 2'	0' - 2'	4' - 6'	4' - 6'	0' - 0.5'
	Laboratory	CONT	CONT	CONT	CONT	CONT	CONT	CONT
	Lab. Number	13A0744-13	13A0744-13RE1	13A0643-28	13A0643-28RE1	13A0643-30	13A0643-30RE1	13A0643-11
Constituent	Units							
Benzo[a]anthracene	ug/kg	<500		<190		<440		<180
Benzo[b]fluoranthene	ug/kg	<500		<190		<440		<180
Benzo(a)pyrene	ug/kg	<500		<190		<440		<180
Benzo(g,h,i)perylene	ug/kg	<500		<190		<440		<180
Benzo(k)fluoranthene	ug/kg	<500		<190		<440		<180
Chrysene	ug/kg	<500		<190		<440		<180
Dibenz(a,h)anthracene	ug/kg	<500		<190		<440		<180
Fluoranthene	ug/kg	<500		<190		<440		<180
Fluorene	ug/kg	<500		<190		<440		<180
Indeno(1,2,3-c,d)pyrene	ug/kg	<500		<190		<440		<180
Naphthalene	ug/kg	<4.8	<5.8	<3.4		<3.0		<130
Naphthalene	ug/kg	<500		<190		<440		<180
Phenanthrene	ug/kg	<500		<190		<440		<180
Pyrene	ug/kg	<500		<190		<440		<180
1,2-Dichloropropane	ug/kg	<2.4	<2.9	<1.7		<1.5		<64
Acenaphthene	ug/kg	<500		<190		<440		<180
Acetone	ug/kg	<120	<140	<85		<76		22000
Acrylonitrile	ug/kg	<7.2	<8.6	<5.1		<4.6		<320
Anthracene	ug/kg	<500		<190		<440		<180
2-Hexanone	ug/kg	<24	<29	<17		<15		<640
Benzene	ug/kg	<2.4	<2.9	<1.7		<1.5		<64
1,2,3-Trichlorobenzene	ug/kg	<2.4	<2.9	<1.7		<1.5		<320
1,2,4-Trichlorobenzene	ug/kg	<2.4	<2.9	<1.7		<1.5		<64
1,2,4-Trimethylbenzene	ug/kg	<2.4	<2.9	<1.7		<1.5		<64
o-Dichlorobenzene	ug/kg	<2.4	<2.9	<1.7		<1.5		<64
1,3,5-Trimethylbenzene	ug/kg	<2.4	<2.9	<1.7		<1.5		<64
m-Dichlorobenzene	ug/kg	<2.4	<2.9	<1.7		<1.5		<64
p-Dichlorobenzene	ug/kg	<2.4	<2.9	<1.7		<1.5		<64



**Table 6-3**  
**LABORATORY ANALYTICAL RESULTS FOR SOIL SAMPLES**  
**Former Mystic Oral School for the Deaf**

	Location ID	MW-03	MW-03	SB-001	SB-001	SB-001	SB-001	SB-002
	Sample ID	1273831	1273831	1273750	1273750	1273752	1273752	1270649
	Sample Date	01/28/2013	01/28/2013	01/24/2013	01/24/2013	01/24/2013	01/24/2013	01/24/2013
	Sample Time	10:26	10:26	11:27	11:27	11:37	11:37	13:10
	Sample Depth	4' - 6'	4' - 6'	0' - 2'	0' - 2'	4' - 6'	4' - 6'	0' - 0.5'
	Laboratory	CONT	CONT	CONT	CONT	CONT	CONT	CONT
	Lab. Number	13A0744-13	13A0744-13RE1	13A0643-28	13A0643-28RE1	13A0643-30	13A0643-30RE1	13A0643-11
Constituent	Units							
Bromobenzene	ug/kg	<2.4	<2.9	<1.7		<1.5		<64
Butyl Benzene	ug/kg	<2.4	<2.9	<1.7		<1.5		<64
Chlorobenzene	ug/kg	<2.4	<2.9	<1.7		<1.5		<64
Ethylbenzene	ug/kg	<2.4	<2.9	2.2		<1.5		<64
Isopropylbenzene (Cumene)	ug/kg	<2.4	<2.9	<1.7		<1.5		<64
Propylbenzene	ug/kg	<2.4	<2.9	<1.7		<1.5		<64
sec-Butylbenzene	ug/kg	<2.4	<2.9	<1.7		<1.5		<64
tert-Butylbenzene	ug/kg	<2.4	<2.9	<1.7		<1.5		<64
Hexachlorobutadiene	ug/kg	<2.4	<2.9	<1.7		<1.5		<64
Methyl Ethyl ketone	ug/kg	<48	<58	<34		<30		<1300
trans-1,4-Dichlorobutene	ug/kg	<4.8	<5.8	<3.4		<3.0		<130
Carbon Disulfide	ug/kg	<7.2	<8.6	<5.1		<4.6		<190
Carbon Tetrachloride	ug/kg	<2.4	<2.9	<1.7		<1.5		<64
4-Isopropyltoluene	ug/kg	<2.4	<2.9	<1.7		<1.5		<64
1,1,1,2-Tetrachloroethane	ug/kg	<2.4	<2.9	<1.7		<1.5		<64
1,1,1-Trichloroethane	ug/kg	<2.4	<2.9	<1.7		<1.5		<64
1,1,2,2-Tetrachloroethane	ug/kg	<1.2	<1.4	<0.85		<0.76		<32
1,1,2-Trichloroethane	ug/kg	<2.4	<2.9	<1.7		<1.5		<64
1,1,2-Trichlorotrifluoroethane	ug/kg	<12	<14	<8.5		<7.6		<64
1,1-Dichloroethane	ug/kg	<2.4	<2.9	<1.7		<1.5		<64
Ethylene Dibromide	ug/kg	<1.2	<1.4	<0.85		<0.76		<64
1,2-Dichloroethane	ug/kg	<2.4	<2.9	<1.7		<1.5		<64
Chloroethane	ug/kg	<24	<29	<17		<15		<130
Methyl tert-Butyl ether	ug/kg	<4.8	<5.8	<3.4		<3.0		<64
1,1-Dichloroethylene	ug/kg	<4.8	<5.8	<3.4		<3.0		<64
trans-1,2-Dichloroethylene	ug/kg	<2.4	<2.9	<1.7		<1.5		<64
cis-1,2-Dichloroethylene	ug/kg	<2.4	<2.9	<1.7		<1.5		<64
Vinyl Chloride	ug/kg	<12	<14	<8.5		<7.6		<130



**Table 6-3**  
**LABORATORY ANALYTICAL RESULTS FOR SOIL SAMPLES**  
**Former Mystic Oral School for the Deaf**

	Location ID	MW-03	MW-03	SB-001	SB-001	SB-001	SB-001	SB-002
	Sample ID	1273831	1273831	1273750	1273750	1273752	1273752	1270649
	Sample Date	01/28/2013	01/28/2013	01/24/2013	01/24/2013	01/24/2013	01/24/2013	01/24/2013
	Sample Time	10:26	10:26	11:27	11:27	11:37	11:37	13:10
	Sample Depth	4' - 6'	4' - 6'	0' - 2'	0' - 2'	4' - 6'	4' - 6'	0' - 0.5'
	Laboratory	CONT	CONT	CONT	CONT	CONT	CONT	CONT
	Lab. Number	13A0744-13	13A0744-13RE1	13A0643-28	13A0643-28RE1	13A0643-30	13A0643-30RE1	13A0643-11
Constituent	Units							
Tetrachloroethylene	ug/kg	<2.4	<2.9	<1.7		<1.5		<64
Tetrahydrofuran	ug/kg	<12	<14	<8.5		<7.6		<640
Bromomethane	ug/kg	<12	<14	<8.5		<7.6		<130
Bromodichloromethane	ug/kg	<2.4	<2.9	<1.7		<1.5		<130
Chloromethane	ug/kg	<12	<14	<8.5		<7.6		<130
Chlorodibromomethane	ug/kg	<1.2	<1.4	<0.85		<0.76		<32
Methylene Dibromide	ug/kg	<2.4	<2.9	<1.7		<1.5		<64
Methylene Chloride	ug/kg	<24	<29	<17		<15		<320
Dichlorodifluoromethane	ug/kg	<24	<29	<17		<15		<130
Bromoform	ug/kg	<2.4	<2.9	<1.7		<1.5		<64
Chloroform	ug/kg	<4.8	<5.8	<3.4		<3.0		<130
Trichlorofluoromethane	ug/kg	<12	<14	<8.5		<7.6		<130
beta-Methylnaphthalene	ug/kg	<500		<190		<440		<180
Methyl Isobutyl ketone	ug/kg	<24	<29	<17		<15		<640
1,2,3-Trichloropropane	ug/kg	<2.4	<2.9	<1.7		<1.5		<130
1,2-Dibromo-3-Chloropropane	ug/kg	<2.4	<2.9	<1.7		<1.5		<320
1,3-Dichloropropane	ug/kg	<1.2	<1.4	<0.85		<0.76		<32
sec-Dichloropropane	ug/kg	<2.4	<2.9	<1.7		<1.5		<64
1,1-Dichloropropene	ug/kg	<2.4	<2.9	<1.7		<1.5		<130
trans-1,3-Dichloropropene	ug/kg	<1.2	<1.4	<0.85		<0.76		<32
cis-1,3-Dichloropropene	ug/kg	<1.2	<1.4	<0.85		<0.76		<32
Styrene	ug/kg	<2.4	<2.9	<1.7		<1.5		<64
Toluene	ug/kg	<2.4	<2.9	5.0		<1.5		<64
o-Chlorotoluene	ug/kg	<2.4	<2.9	<1.7		<1.5		<64
p-Chlorotoluene	ug/kg	<2.4	<2.9	<1.7		<1.5		<64
Trichloroethylene	ug/kg	<2.4	<2.9	<1.7		<1.5		<64
o-Xylene	ug/kg	<2.4	<2.9	6.5		<1.5		<64
Xylenes,m- & p-	ug/kg	<4.8	<5.8	12		<3.0		<130



**Table 6-3**  
**LABORATORY ANALYTICAL RESULTS FOR SOIL SAMPLES**  
**Former Mystic Oral School for the Deaf**

	Location ID	SB-002	SB-003	SB-003	SB-003	SB-003	SB-004	SB-004
	Sample ID	1270649	1273768	1273768	1273769	1273769	1273744	1273744
	Sample Date	01/24/2013	01/24/2013	01/24/2013	01/24/2013	01/24/2013	01/24/2013	01/24/2013
	Sample Time	13:10	13:40	13:40	13:47	13:47	10:08	10:08
	Sample Depth	0' - 0.5'	0' - 0.5'	0' - 0.5'	0.5' - 2.0'	0.5' - 2.0'	0' - 0.5'	0' - 0.5'
	Laboratory	CONT	CONT	CONT	CONT	CONT	CONT	CONT
	Lab. Number	13A0643-11RE1	13A0643-39	13A0643-39RE1	13A0643-40	13A0643-40RE1	13A0643-22	13A0643-22RE1
Constituent	Units							
Date PCBs Analyzed	-		01/29/2013		01/29/2013		01/29/2013	
Date Metals Analyzed	-		01/29/2013		01/29/2013		01/29/2013	
Date Organics Analyzed	-		01/29/2013		01/30/2013		01/29/2013	
Date Pesticides/Herbicides Analyzed	-		01/30/2013					
Date Physical Analyzed	-	01/31/2013		01/31/2013		01/31/2013		01/31/2013
Date Semivolatile Organics Analyzed	-		01/29/2013		01/29/2013		01/29/2013	
Alachlor	ug/kg		<22					
2,4,5-Trichlorophenoxyacetic acid	ug/kg							
2,4-Dichlorophenoxyacetic acid	ug/kg							
Dicamba	ug/kg							
Dalapon	ug/kg							
Silvex	ug/kg							
Arsenic	mg/kg		<2.7		3.0		8.6	
Barium	mg/kg		53		62		45	
Cadmium	mg/kg		<0.27		<0.26		<0.34	
Chromium, Total	mg/kg		14		11		32	
Copper	mg/kg		17		13		16	
Lead	mg/kg		7.4		12		16	
Mercury	mg/kg		<0.027		<0.026		0.067	
Nickel	mg/kg		11		7.5		11	
Selenium	mg/kg		<5.3		<5.1		<6.8	
Silver	mg/kg		<0.53		<0.51		<0.68	
Zinc	mg/kg		47		32		41	
Arochlor 1016	ug/kg		<110		<110		<130	
Arochlor 1221	ug/kg		<110		<110		<130	
Arochlor 1232	ug/kg		<110		<110		<130	
Arochlor 1242	ug/kg		<110		<110		<130	
Arochlor 1248	ug/kg		<110		<110		<130	



**Table 6-3**  
**LABORATORY ANALYTICAL RESULTS FOR SOIL SAMPLES**  
**Former Mystic Oral School for the Deaf**

	Location ID	SB-002	SB-003	SB-003	SB-003	SB-003	SB-004	SB-004
	Sample ID	1270649	1273768	1273768	1273769	1273769	1273744	1273744
	Sample Date	01/24/2013	01/24/2013	01/24/2013	01/24/2013	01/24/2013	01/24/2013	01/24/2013
	Sample Time	13:10	13:40	13:40	13:47	13:47	10:08	10:08
	Sample Depth	0' - 0.5'	0' - 0.5'	0' - 0.5'	0.5' - 2.0'	0.5' - 2.0'	0' - 0.5'	0' - 0.5'
	Laboratory	CONT	CONT	CONT	CONT	CONT	CONT	CONT
	Lab. Number	13A0643-11RE1	13A0643-39	13A0643-39RE1	13A0643-40	13A0643-40RE1	13A0643-22	13A0643-22RE1
Constituent	Units							
Arochlor 1254	ug/kg		<110		<110		<130	
Arochlor 1260	ug/kg		<110		<110		<130	
Arochlor 1262	ug/kg		<110		<110		<130	
Arochlor 1268	ug/kg		<110		<110		<130	
Aldrin	ug/kg		<5.4					
Hexachlorobenzene	ug/kg		<6.5					
Chlordane	ug/kg		<22					
BHC(alpha-)	ug/kg		<5.4					
BHC(beta-)	ug/kg		<5.4					
BHC(delta-)	ug/kg		<5.4					
Lindane	ug/kg		<2.2					
Dieldrin	ug/kg		<4.3					
Endrin	ug/kg		<8.6					
Endrin aldehyde	ug/kg		<8.6					
Endrin ketone	ug/kg		<8.6					
p,p'-DDT	ug/kg		<4.3					
Methoxychlor	ug/kg		<54					
p,p'-DDD	ug/kg		<4.3					
p,p'-DDE	ug/kg		<4.3					
Heptachlor Epoxide	ug/kg		<5.4					
Heptachlor	ug/kg		<5.4					
Endosulfan Sulfate	ug/kg		<8.6					
Alpha Endosulfan	ug/kg		<5.4					
Beta Endosulfan	ug/kg		<8.6					
Toxaphene	ug/kg		<110					
Cyanide	mg/kg							
Total Petroleum Hydrocarbons (CT ETPH)	mg/kg	16		66		61		290
Acenaphthylene	ug/kg		<190		<180		<230	



**Table 6-3**  
**LABORATORY ANALYTICAL RESULTS FOR SOIL SAMPLES**  
**Former Mystic Oral School for the Deaf**

	Location ID	SB-002	SB-003	SB-003	SB-003	SB-003	SB-004	SB-004
	Sample ID	1270649	1273768	1273768	1273769	1273769	1273744	1273744
	Sample Date	01/24/2013	01/24/2013	01/24/2013	01/24/2013	01/24/2013	01/24/2013	01/24/2013
	Sample Time	13:10	13:40	13:40	13:47	13:47	10:08	10:08
	Sample Depth	0' - 0.5'	0' - 0.5'	0' - 0.5'	0.5' - 2.0'	0.5' - 2.0'	0' - 0.5'	0' - 0.5'
	Laboratory	CONT	CONT	CONT	CONT	CONT	CONT	CONT
	Lab. Number	13A0643-11RE1	13A0643-39	13A0643-39RE1	13A0643-40	13A0643-40RE1	13A0643-22	13A0643-22RE1
Constituent	Units							
Benzo[a]anthracene	ug/kg		<190		410		<230	
Benzo[b]fluoranthene	ug/kg		400		740		<230	
Benzo(a)pyrene	ug/kg		240		480		<230	
Benzo(g,h,i)perylene	ug/kg		<190		260		<230	
Benzo(k)fluoranthene	ug/kg		<190		260		<230	
Chrysene	ug/kg		240		610		<230	
Dibenz(a,h)anthracene	ug/kg		<190		<180		<230	
Fluoranthene	ug/kg		360		970		<230	
Fluorene	ug/kg		<190		<180		<230	
Indeno(1,2,3-c,d)pyrene	ug/kg		270		380		<230	
Naphthalene	ug/kg		<2.4		<3.3		<9.2	
Naphthalene	ug/kg		<190		<180		<230	
Phenanthrene	ug/kg		<190		650		<230	
Pyrene	ug/kg		350		950		<230	
1,2-Dichloropropane	ug/kg		<1.2		<1.6		<4.6	
Acenaphthene	ug/kg		<190		<180		<230	
Acetone	ug/kg		<60		<81		<230	
Acrylonitrile	ug/kg		<3.6		<4.9		<14	
Anthracene	ug/kg		<190		<180		<230	
2-Hexanone	ug/kg		<12		<16		<46	
Benzene	ug/kg		<1.2		<1.6		<4.6	
1,2,3-Trichlorobenzene	ug/kg		<1.2		<1.6		<4.6	
1,2,4-Trichlorobenzene	ug/kg		<1.2		<1.6		<4.6	
1,2,4-Trimethylbenzene	ug/kg		<1.2		<1.6		<4.6	
o-Dichlorobenzene	ug/kg		<1.2		<1.6		<4.6	
1,3,5-Trimethylbenzene	ug/kg		<1.2		<1.6		<4.6	
m-Dichlorobenzene	ug/kg		<1.2		<1.6		<4.6	
p-Dichlorobenzene	ug/kg		<1.2		<1.6		<4.6	



**Table 6-3**  
**LABORATORY ANALYTICAL RESULTS FOR SOIL SAMPLES**  
**Former Mystic Oral School for the Deaf**

	Location ID	SB-002	SB-003	SB-003	SB-003	SB-003	SB-004	SB-004
	Sample ID	1270649	1273768	1273768	1273769	1273769	1273744	1273744
	Sample Date	01/24/2013	01/24/2013	01/24/2013	01/24/2013	01/24/2013	01/24/2013	01/24/2013
	Sample Time	13:10	13:40	13:40	13:47	13:47	10:08	10:08
	Sample Depth	0' - 0.5'	0' - 0.5'	0' - 0.5'	0.5' - 2.0'	0.5' - 2.0'	0' - 0.5'	0' - 0.5'
	Laboratory	CONT	CONT	CONT	CONT	CONT	CONT	CONT
	Lab. Number	13A0643-11RE1	13A0643-39	13A0643-39RE1	13A0643-40	13A0643-40RE1	13A0643-22	13A0643-22RE1
Constituent	Units							
Bromobenzene	ug/kg		<1.2		<1.6		<4.6	
Butyl Benzene	ug/kg		<1.2		<1.6		<4.6	
Chlorobenzene	ug/kg		<1.2		<1.6		<4.6	
Ethylbenzene	ug/kg		<1.2		<1.6		<4.6	
Isopropylbenzene (Cumene)	ug/kg		<1.2		<1.6		<4.6	
Propylbenzene	ug/kg		<1.2		<1.6		<4.6	
sec-Butylbenzene	ug/kg		<1.2		<1.6		<4.6	
tert-Butylbenzene	ug/kg		<1.2		<1.6		<4.6	
Hexachlorobutadiene	ug/kg		<1.2		<1.6		<4.6	
Methyl Ethyl ketone	ug/kg		<24		<33		<92	
trans-1,4-Dichlorobutene	ug/kg		<2.4		<3.3		<9.2	
Carbon Disulfide	ug/kg		<3.6		<4.9		<14	
Carbon Tetrachloride	ug/kg		<1.2		<1.6		<4.6	
4-Isopropyltoluene	ug/kg		<1.2		<1.6		<4.6	
1,1,1,2-Tetrachloroethane	ug/kg		<1.2		<1.6		<4.6	
1,1,1-Trichloroethane	ug/kg		<1.2		<1.6		<4.6	
1,1,2,2-Tetrachloroethane	ug/kg		<0.60		<0.81		<2.3	
1,1,2-Trichloroethane	ug/kg		<1.2		<1.6		<4.6	
1,1,2-Trichlorotrifluoroethane	ug/kg		<6.0		<8.1		<23	
1,1-Dichloroethane	ug/kg		<1.2		<1.6		<4.6	
Ethylene Dibromide	ug/kg		<0.60		<0.81		<2.3	
1,2-Dichloroethane	ug/kg		<1.2		<1.6		<4.6	
Chloroethane	ug/kg		<12		<16		<46	
Methyl tert-Butyl ether	ug/kg		<2.4		<3.3		<9.2	
1,1-Dichloroethylene	ug/kg		<2.4		<3.3		<9.2	
trans-1,2-Dichloroethylene	ug/kg		<1.2		<1.6		<4.6	
cis-1,2-Dichloroethylene	ug/kg		<1.2		<1.6		<4.6	
Vinyl Chloride	ug/kg		<6.0		<8.1		<23	



**Table 6-3**  
**LABORATORY ANALYTICAL RESULTS FOR SOIL SAMPLES**  
**Former Mystic Oral School for the Deaf**

	Location ID	SB-002	SB-003	SB-003	SB-003	SB-003	SB-004	SB-004
	Sample ID	1270649	1273768	1273768	1273769	1273769	1273744	1273744
	Sample Date	01/24/2013	01/24/2013	01/24/2013	01/24/2013	01/24/2013	01/24/2013	01/24/2013
	Sample Time	13:10	13:40	13:40	13:47	13:47	10:08	10:08
	Sample Depth	0' - 0.5'	0' - 0.5'	0' - 0.5'	0.5' - 2.0'	0.5' - 2.0'	0' - 0.5'	0' - 0.5'
	Laboratory	CONT	CONT	CONT	CONT	CONT	CONT	CONT
	Lab. Number	13A0643-11RE1	13A0643-39	13A0643-39RE1	13A0643-40	13A0643-40RE1	13A0643-22	13A0643-22RE1
Constituent	Units							
Tetrachloroethylene	ug/kg		<1.2		<1.6		<4.6	
Tetrahydrofuran	ug/kg		<6.0		<8.1		<23	
Bromomethane	ug/kg		<6.0		<8.1		<23	
Bromodichloromethane	ug/kg		<1.2		<1.6		<4.6	
Chloromethane	ug/kg		<6.0		<8.1		<23	
Chlorodibromomethane	ug/kg		<0.60		<0.81		<2.3	
Methylene Dibromide	ug/kg		<1.2		<1.6		<4.6	
Methylene Chloride	ug/kg		<12		<16		<46	
Dichlorodifluoromethane	ug/kg		<12		<16		<46	
Bromoform	ug/kg		<1.2		<1.6		<4.6	
Chloroform	ug/kg		<2.4		<3.3		<9.2	
Trichlorofluoromethane	ug/kg		<6.0		<8.1		<23	
beta-Methylnaphthalene	ug/kg		<190		<180		<230	
Methyl Isobutyl ketone	ug/kg		<12		<16		<46	
1,2,3-Trichloropropane	ug/kg		<1.2		<1.6		<4.6	
1,2-Dibromo-3-Chloropropane	ug/kg		<1.2		<1.6		<4.6	
1,3-Dichloropropane	ug/kg		<0.60		<0.81		<2.3	
sec-Dichloropropane	ug/kg		<1.2		<1.6		<4.6	
1,1-Dichloropropene	ug/kg		<1.2		<1.6		<4.6	
trans-1,3-Dichloropropene	ug/kg		<0.60		<0.81		<2.3	
cis-1,3-Dichloropropene	ug/kg		<0.60		<0.81		<2.3	
Styrene	ug/kg		<1.2		<1.6		<4.6	
Toluene	ug/kg		<1.2		<1.6		<4.6	
o-Chlorotoluene	ug/kg		<1.2		<1.6		<4.6	
p-Chlorotoluene	ug/kg		<1.2		<1.6		<4.6	
Trichloroethylene	ug/kg		<1.2		<1.6		<4.6	
o-Xylene	ug/kg		<1.2		<1.6		<4.6	
Xylenes,m- & p-	ug/kg		<2.4		<3.3		<9.2	



**Table 6-3**  
**LABORATORY ANALYTICAL RESULTS FOR SOIL SAMPLES**  
**Former Mystic Oral School for the Deaf**

	Location ID	SB-005	SB-005	SB-005	SB-005	SB-006	SB-006	SB-006
	Sample ID	1273770	1273770	1273771	1273773	1273746	1273746	1273746
	Sample Date	01/24/2013	01/24/2013	01/24/2013	01/24/2013	01/24/2013	01/24/2013	01/24/2013
	Sample Time	13:58	13:58	13:58	14:10	10:13	10:13	10:13
	Sample Depth	0' - 0.5'	0' - 0.5'	0.5' - 2.0'	4' - 6'	0' - 0.5'	0' - 0.5'	0' - 0.5'
	Laboratory	CONT	CONT	CONT	CONT	CONT	CONT	CONT
	Lab. Number	13A0643-41	13A0643-41RE1	13A0643-42	13A0643-44	13A0643-24	13A0643-24RE1	13A0643-24RE2
Constituent	Units							
Date PCBs Analyzed	-	01/31/2013		01/31/2013	01/31/2013	01/29/2013		
Date Metals Analyzed	-	01/29/2013		01/29/2013	01/29/2013	01/29/2013		
Date Organics Analyzed	-	01/30/2013		01/30/2013	01/30/2013	01/29/2013		
Date Pesticides/Herbicides Analyzed	-	01/30/2013		01/30/2013				
Date Physical Analyzed	-		01/31/2013	01/31/2013	01/30/2013		01/31/2013	02/01/2013
Date Semivolatile Organics Analyzed	-	01/29/2013		01/29/2013	01/29/2013	01/29/2013		
Alachlor	ug/kg	<23		<25				
2,4,5-Trichlorophenoxyacetic acid	ug/kg	<2.8		<3.1				
2,4-Dichlorophenoxyacetic acid	ug/kg	<28		<31				
Dicamba	ug/kg	<2.8		<3.1				
Dalapon	ug/kg	<70		<78				
Silvex	ug/kg	<2.8		<3.1				
Arsenic	mg/kg	<2.9		<2.9	<2.7	<3.1		
Barium	mg/kg	52		50	22	55		
Cadmium	mg/kg	<0.29		<0.29	<0.27	<0.31		
Chromium, Total	mg/kg	16		16	5.7	19		
Copper	mg/kg	9.7		11	4.3	11		
Lead	mg/kg	8.3		8.1	1.8	27		
Mercury	mg/kg	0.043		0.041	<0.027	0.048		
Nickel	mg/kg	9.8		8.5	2.8	9.9		
Selenium	mg/kg	<5.8		<5.9	<5.3	<6.2		
Silver	mg/kg	<0.58		<0.59	<0.53	<0.62		
Zinc	mg/kg	28		27	14	38		
Arochlor 1016	ug/kg	<110		<120	<110	<130		
Arochlor 1221	ug/kg	<110		<120	<110	<130		
Arochlor 1232	ug/kg	<110		<120	<110	<130		
Arochlor 1242	ug/kg	<110		<120	<110	<130		
Arochlor 1248	ug/kg	<110		<120	<110	<130		



**Table 6-3**  
**LABORATORY ANALYTICAL RESULTS FOR SOIL SAMPLES**  
**Former Mystic Oral School for the Deaf**

	Location ID	SB-005	SB-005	SB-005	SB-005	SB-006	SB-006	SB-006
	Sample ID	1273770	1273770	1273771	1273773	1273746	1273746	1273746
	Sample Date	01/24/2013	01/24/2013	01/24/2013	01/24/2013	01/24/2013	01/24/2013	01/24/2013
	Sample Time	13:58	13:58	13:58	14:10	10:13	10:13	10:13
	Sample Depth	0' - 0.5'	0' - 0.5'	0.5' - 2.0'	4' - 6'	0' - 0.5'	0' - 0.5'	0' - 0.5'
	Laboratory	CONT	CONT	CONT	CONT	CONT	CONT	CONT
	Lab. Number	13A0643-41	13A0643-41RE1	13A0643-42	13A0643-44	13A0643-24	13A0643-24RE1	13A0643-24RE2
Constituent	Units							
Arochlor 1254	ug/kg	<110		<120	<110	<130		
Arochlor 1260	ug/kg	<110		<120	<110	<130		
Arochlor 1262	ug/kg	<110		<120	<110	<130		
Arochlor 1268	ug/kg	<110		<120	<110	<130		
Aldrin	ug/kg	<5.7		<6.2				
Hexachlorobenzene	ug/kg	<6.9		<7.5				
Chlordane	ug/kg	<23		<25				
BHC(alpha-)	ug/kg	<5.7		<6.2				
BHC(beta-)	ug/kg	<5.7		<6.2				
BHC(delta-)	ug/kg	<5.7		<6.2				
Lindane	ug/kg	<2.3		<2.5				
Dieldrin	ug/kg	<4.6		<5.0				
Endrin	ug/kg	<9.2		<10				
Endrin aldehyde	ug/kg	<9.2		<10				
Endrin ketone	ug/kg	<9.2		<10				
p,p'-DDT	ug/kg	<4.6		<5.0				
Methoxychlor	ug/kg	<57		<62				
p,p'-DDD	ug/kg	<4.6		<5.0				
p,p'-DDE	ug/kg	<4.6		<5.0				
Heptachlor Epoxide	ug/kg	<5.7		<6.2				
Heptachlor	ug/kg	<5.7		<6.2				
Endosulfan Sulfate	ug/kg	<9.2		<10				
Alpha Endosulfan	ug/kg	<5.7		<6.2				
Beta Endosulfan	ug/kg	<9.2		<10				
Toxaphene	ug/kg	<110		<120				
Cyanide	mg/kg							
Total Petroleum Hydrocarbons (CT ETPH)	mg/kg		38	47	<11		63	73
Acenaphthylene	ug/kg	<200		<210	<190	<220		



**Table 6-3**  
**LABORATORY ANALYTICAL RESULTS FOR SOIL SAMPLES**  
**Former Mystic Oral School for the Deaf**

	Location ID	SB-005	SB-005	SB-005	SB-005	SB-006	SB-006	SB-006
	Sample ID	1273770	1273770	1273771	1273773	1273746	1273746	1273746
	Sample Date	01/24/2013	01/24/2013	01/24/2013	01/24/2013	01/24/2013	01/24/2013	01/24/2013
	Sample Time	13:58	13:58	13:58	14:10	10:13	10:13	10:13
	Sample Depth	0' - 0.5'	0' - 0.5'	0.5' - 2.0'	4' - 6'	0' - 0.5'	0' - 0.5'	0' - 0.5'
	Laboratory	CONT	CONT	CONT	CONT	CONT	CONT	CONT
	Lab. Number	13A0643-41	13A0643-41RE1	13A0643-42	13A0643-44	13A0643-24	13A0643-24RE1	13A0643-24RE2
Constituent	Units							
Benzo[a]anthracene	ug/kg	<200		<210	<190	<220		
Benzo[b]fluoranthene	ug/kg	<200		<210	<190	<220		
Benzo(a)pyrene	ug/kg	<200		<210	<190	<220		
Benzo(g,h,i)perylene	ug/kg	<200		<210	<190	<220		
Benzo(k)fluoranthene	ug/kg	<200		<210	<190	<220		
Chrysene	ug/kg	<200		<210	<190	<220		
Dibenz(a,h)anthracene	ug/kg	<200		<210	<190	<220		
Fluoranthene	ug/kg	<200		<210	<190	<220		
Fluorene	ug/kg	<200		<210	<190	<220		
Indeno(1,2,3-c,d)pyrene	ug/kg	<200		<210	<190	<220		
Naphthalene	ug/kg	<4.9		<5.3	<3.0	<5.0		
Naphthalene	ug/kg	<200		<210	<190	<220		
Phenanthrene	ug/kg	<200		<210	<190	<220		
Pyrene	ug/kg	<200		<210	<190	<220		
1,2-Dichloropropane	ug/kg	<2.5		<2.7	<1.5	<2.5		
Acenaphthene	ug/kg	<200		<210	<190	<220		
Acetone	ug/kg	<120		<130	<76	<120		
Acrylonitrile	ug/kg	<7.4		<8.0	<4.6	<7.5		
Anthracene	ug/kg	<200		<210	<190	<220		
2-Hexanone	ug/kg	<25		<27	<15	<25		
Benzene	ug/kg	<2.5		<2.7	<1.5	<2.5		
1,2,3-Trichlorobenzene	ug/kg	<2.5		<2.7	<1.5	<2.5		
1,2,4-Trichlorobenzene	ug/kg	<2.5		<2.7	<1.5	<2.5		
1,2,4-Trimethylbenzene	ug/kg	<2.5		<2.7	<1.5	<2.5		
o-Dichlorobenzene	ug/kg	<2.5		<2.7	<1.5	<2.5		
1,3,5-Trimethylbenzene	ug/kg	<2.5		<2.7	<1.5	<2.5		
m-Dichlorobenzene	ug/kg	<2.5		<2.7	<1.5	<2.5		
p-Dichlorobenzene	ug/kg	<2.5		<2.7	<1.5	<2.5		



**Table 6-3**  
**LABORATORY ANALYTICAL RESULTS FOR SOIL SAMPLES**  
**Former Mystic Oral School for the Deaf**

	Location ID	SB-005	SB-005	SB-005	SB-005	SB-006	SB-006	SB-006
	Sample ID	1273770	1273770	1273771	1273773	1273746	1273746	1273746
	Sample Date	01/24/2013	01/24/2013	01/24/2013	01/24/2013	01/24/2013	01/24/2013	01/24/2013
	Sample Time	13:58	13:58	13:58	14:10	10:13	10:13	10:13
	Sample Depth	0' - 0.5'	0' - 0.5'	0.5' - 2.0'	4' - 6'	0' - 0.5'	0' - 0.5'	0' - 0.5'
	Laboratory	CONT	CONT	CONT	CONT	CONT	CONT	CONT
	Lab. Number	13A0643-41	13A0643-41RE1	13A0643-42	13A0643-44	13A0643-24	13A0643-24RE1	13A0643-24RE2
Constituent	Units							
Bromobenzene	ug/kg	<2.5		<2.7	<1.5	<2.5		
Butyl Benzene	ug/kg	<2.5		<2.7	<1.5	<2.5		
Chlorobenzene	ug/kg	<2.5		<2.7	<1.5	<2.5		
Ethylbenzene	ug/kg	<2.5		<2.7	<1.5	<2.5		
Isopropylbenzene (Cumene)	ug/kg	<2.5		<2.7	<1.5	<2.5		
Propylbenzene	ug/kg	<2.5		<2.7	<1.5	<2.5		
sec-Butylbenzene	ug/kg	<2.5		<2.7	<1.5	<2.5		
tert-Butylbenzene	ug/kg	<2.5		<2.7	<1.5	<2.5		
Hexachlorobutadiene	ug/kg	<2.5		<2.7	<1.5	<2.5		
Methyl Ethyl ketone	ug/kg	<49		<53	<30	<50		
trans-1,4-Dichlorobutene	ug/kg	<4.9		<5.3	<3.0	<5.0		
Carbon Disulfide	ug/kg	<7.4		<8.0	<4.6	<7.5		
Carbon Tetrachloride	ug/kg	<2.5		<2.7	<1.5	<2.5		
4-Isopropyltoluene	ug/kg	<2.5		<2.7	<1.5	<2.5		
1,1,1,2-Tetrachloroethane	ug/kg	<2.5		<2.7	<1.5	<2.5		
1,1,1-Trichloroethane	ug/kg	<2.5		<2.7	<1.5	<2.5		
1,1,2,2-Tetrachloroethane	ug/kg	<1.2		<1.3	<0.76	<1.2		
1,1,2-Trichloroethane	ug/kg	<2.5		<2.7	<1.5	<2.5		
1,1,2-Trichlorotrifluoroethane	ug/kg	<12		<13	<7.6	<12		
1,1-Dichloroethane	ug/kg	<2.5		<2.7	<1.5	<2.5		
Ethylene Dibromide	ug/kg	<1.2		<1.3	<0.76	<1.2		
1,2-Dichloroethane	ug/kg	<2.5		<2.7	<1.5	<2.5		
Chloroethane	ug/kg	<25		<27	<15	<25		
Methyl tert-Butyl ether	ug/kg	<4.9		<5.3	<3.0	<5.0		
1,1-Dichloroethylene	ug/kg	<4.9		<5.3	<3.0	<5.0		
trans-1,2-Dichloroethylene	ug/kg	<2.5		<2.7	<1.5	<2.5		
cis-1,2-Dichloroethylene	ug/kg	<2.5		<2.7	<1.5	<2.5		
Vinyl Chloride	ug/kg	<12		<13	<7.6	<12		



**Table 6-3**  
**LABORATORY ANALYTICAL RESULTS FOR SOIL SAMPLES**  
**Former Mystic Oral School for the Deaf**

	Location ID	SB-005	SB-005	SB-005	SB-005	SB-006	SB-006	SB-006
	Sample ID	1273770	1273770	1273771	1273773	1273746	1273746	1273746
	Sample Date	01/24/2013	01/24/2013	01/24/2013	01/24/2013	01/24/2013	01/24/2013	01/24/2013
	Sample Time	13:58	13:58	13:58	14:10	10:13	10:13	10:13
	Sample Depth	0' - 0.5'	0' - 0.5'	0.5' - 2.0'	4' - 6'	0' - 0.5'	0' - 0.5'	0' - 0.5'
	Laboratory	CONT	CONT	CONT	CONT	CONT	CONT	CONT
	Lab. Number	13A0643-41	13A0643-41RE1	13A0643-42	13A0643-44	13A0643-24	13A0643-24RE1	13A0643-24RE2
Constituent	Units							
Tetrachloroethylene	ug/kg	<2.5		<2.7	<1.5	<2.5		
Tetrahydrofuran	ug/kg	<12		<13	<7.6	<12		
Bromomethane	ug/kg	<12		<13	<7.6	<12		
Bromodichloromethane	ug/kg	<2.5		<2.7	<1.5	<2.5		
Chloromethane	ug/kg	<12		<13	<7.6	<12		
Chlorodibromomethane	ug/kg	<1.2		<1.3	<0.76	<1.2		
Methylene Dibromide	ug/kg	<2.5		<2.7	<1.5	<2.5		
Methylene Chloride	ug/kg	<25		<27	<15	<25		
Dichlorodifluoromethane	ug/kg	<25		<27	<15	<25		
Bromoform	ug/kg	<2.5		<2.7	<1.5	<2.5		
Chloroform	ug/kg	<4.9		<5.3	<3.0	<5.0		
Trichlorofluoromethane	ug/kg	<12		<13	<7.6	<12		
beta-Methylnaphthalene	ug/kg	<200		<210	<190	<220		
Methyl Isobutyl ketone	ug/kg	<25		<27	<15	<25		
1,2,3-Trichloropropane	ug/kg	<2.5		<2.7	<1.5	<2.5		
1,2-Dibromo-3-Chloropropane	ug/kg	<2.5		<2.7	<1.5	<2.5		
1,3-Dichloropropane	ug/kg	<1.2		<1.3	<0.76	<1.2		
sec-Dichloropropane	ug/kg	<2.5		<2.7	<1.5	<2.5		
1,1-Dichloropropene	ug/kg	<2.5		<2.7	<1.5	<2.5		
trans-1,3-Dichloropropene	ug/kg	<1.2		<1.3	<0.76	<1.2		
cis-1,3-Dichloropropene	ug/kg	<1.2		<1.3	<0.76	<1.2		
Styrene	ug/kg	<2.5		<2.7	<1.5	<2.5		
Toluene	ug/kg	<2.5		<2.7	<1.5	<2.5		
o-Chlorotoluene	ug/kg	<2.5		<2.7	<1.5	<2.5		
p-Chlorotoluene	ug/kg	<2.5		<2.7	<1.5	<2.5		
Trichloroethylene	ug/kg	<2.5		<2.7	<1.5	<2.5		
o-Xylene	ug/kg	<2.5		<2.7	<1.5	<2.5		
Xylenes,m- & p-	ug/kg	<4.9		<5.3	<3.0	<5.0		



**Table 6-3**  
**LABORATORY ANALYTICAL RESULTS FOR SOIL SAMPLES**  
**Former Mystic Oral School for the Deaf**

	Location ID	SB-007	SB-007	SB-007	SB-008	SB-008	SB-008	SB-009
	Sample ID	1273748	1273748	1273748	1273781	1273782	1273782	1273863
	Sample Date	01/24/2013	01/24/2013	01/24/2013	01/24/2013	01/24/2013	01/24/2013	01/29/2013
	Sample Time	10:20	10:20	10:20	15:05	15:10	15:10	11:45
	Sample Depth	0' - 0.5'	0' - 0.5'	0' - 0.5'	0' - 0.5'	0.5' - 2.0'	0.5' - 2.0'	0' - 1'
	Laboratory	CONT	CONT	CONT	CONT	CONT	CONT	CONT
	Lab. Number	13A0643-26	13A0643-26RE1	13A0643-26m	13A0643-52	13A0643-53	13A0643-53RE1	13A0745-03
Constituent	Units							
Date PCBs Analyzed	-	01/29/2013			01/31/2013	01/31/2013		
Date Metals Analyzed	-	01/29/2013			01/29/2013	01/29/2013		02/02/2013
Date Organics Analyzed	-	01/29/2013		01/31/2013	01/30/2013	01/30/2013	01/30/2013	02/01/2013
Date Pesticides/Herbicides Analyzed	-				01/30/2013			
Date Physical Analyzed	-		01/31/2013		01/31/2013	01/30/2013		02/05/2013
Date Semivolatile Organics Analyzed	-	01/30/2013			01/31/2013	01/31/2013		02/04/2013
Alachlor	ug/kg				<24			
2,4,5-Trichlorophenoxyacetic acid	ug/kg				<3.0			
2,4-Dichlorophenoxyacetic acid	ug/kg				<30			
Dicamba	ug/kg				<3.0			
Dalapon	ug/kg				<74			
Silvex	ug/kg				<3.0			
Arsenic	mg/kg	<2.8			<3.0	<3.1		<2.5
Barium	mg/kg	35			45	31		50
Cadmium	mg/kg	<0.28			0.35	<0.31		<0.25
Chromium, Total	mg/kg	18			16	23		11
Copper	mg/kg	20			11	18		8.8
Lead	mg/kg	66			12	49		6.0
Mercury	mg/kg	0.057			0.041	0.041		<0.026
Nickel	mg/kg	10			9.1	9.3		7.5
Selenium	mg/kg	<5.7			<6.0	<6.2		<5.1
Silver	mg/kg	<0.57			<0.60	<0.62		<0.51
Zinc	mg/kg	37			40	42		25
Arochlor 1016	ug/kg	<120			<120	<130		
Arochlor 1221	ug/kg	<120			<120	<130		
Arochlor 1232	ug/kg	<120			<120	<130		
Arochlor 1242	ug/kg	<120			<120	<130		
Arochlor 1248	ug/kg	<120			<120	<130		



**Table 6-3**  
**LABORATORY ANALYTICAL RESULTS FOR SOIL SAMPLES**  
**Former Mystic Oral School for the Deaf**

	Location ID	SB-007	SB-007	SB-007	SB-008	SB-008	SB-008	SB-009
	Sample ID	1273748	1273748	1273748	1273781	1273782	1273782	1273863
	Sample Date	01/24/2013	01/24/2013	01/24/2013	01/24/2013	01/24/2013	01/24/2013	01/29/2013
	Sample Time	10:20	10:20	10:20	15:05	15:10	15:10	11:45
	Sample Depth	0' - 0.5'	0' - 0.5'	0' - 0.5'	0' - 0.5'	0.5' - 2.0'	0.5' - 2.0'	0' - 1'
	Laboratory	CONT	CONT	CONT	CONT	CONT	CONT	CONT
	Lab. Number	13A0643-26	13A0643-26RE1	13A0643-26m	13A0643-52	13A0643-53	13A0643-53RE1	13A0745-03
Constituent	Units							
Arochlor 1254	ug/kg	<120			<120	<130		
Arochlor 1260	ug/kg	<120			<120	<130		
Arochlor 1262	ug/kg	<120			<120	<130		
Arochlor 1268	ug/kg	<120			<120	<130		
Aldrin	ug/kg				<5.9			
Hexachlorobenzene	ug/kg				<7.1			
Chlordane	ug/kg				<24			
BHC(alpha-)	ug/kg				<5.9			
BHC(beta-)	ug/kg				<5.9			
BHC(delta-)	ug/kg				<5.9			
Lindane	ug/kg				<2.4			
Dieldrin	ug/kg				<4.7			
Endrin	ug/kg				<9.4			
Endrin aldehyde	ug/kg				<9.4			
Endrin ketone	ug/kg				<9.4			
p,p'-DDT	ug/kg				<4.7			
Methoxychlor	ug/kg				<59			
p,p'-DDD	ug/kg				<4.7			
p,p'-DDE	ug/kg				<4.7			
Heptachlor Epoxide	ug/kg				<5.9			
Heptachlor	ug/kg				<5.9			
Endosulfan Sulfate	ug/kg				<9.4			
Alpha Endosulfan	ug/kg				<5.9			
Beta Endosulfan	ug/kg				<9.4			
Toxaphene	ug/kg				<120			
Cyanide	mg/kg							
Total Petroleum Hydrocarbons (CT ETPH)	mg/kg		450		43	1000		<10
Acenaphthylene	ug/kg	<200			<200	1700		<180



**Table 6-3**  
**LABORATORY ANALYTICAL RESULTS FOR SOIL SAMPLES**  
**Former Mystic Oral School for the Deaf**

	Location ID	SB-007	SB-007	SB-007	SB-008	SB-008	SB-008	SB-009
	Sample ID	1273748	1273748	1273748	1273781	1273782	1273782	1273863
	Sample Date	01/24/2013	01/24/2013	01/24/2013	01/24/2013	01/24/2013	01/24/2013	01/29/2013
	Sample Time	10:20	10:20	10:20	15:05	15:10	15:10	11:45
	Sample Depth	0' - 0.5'	0' - 0.5'	0' - 0.5'	0' - 0.5'	0.5' - 2.0'	0.5' - 2.0'	0' - 1'
	Laboratory	CONT	CONT	CONT	CONT	CONT	CONT	CONT
	Lab. Number	13A0643-26	13A0643-26RE1	13A0643-26m	13A0643-52	13A0643-53	13A0643-53RE1	13A0745-03
Constituent	Units							
Benzo[a]anthracene	ug/kg	270			<200	2200		<180
Benzo[b]fluoranthene	ug/kg	770			<200	6200		<180
Benzo(a)pyrene	ug/kg	370			<200	4100		<180
Benzo(g,h,i)perylene	ug/kg	200			<200	3400		<180
Benzo(k)fluoranthene	ug/kg	250			<200	2200		<180
Chrysene	ug/kg	460			<200	3600		<180
Dibenz(a,h)anthracene	ug/kg	<200			<200	<870		<180
Fluoranthene	ug/kg	750			<200	3400		<180
Fluorene	ug/kg	<200			<200	<870		<180
Indeno(1,2,3-c,d)pyrene	ug/kg	330			<200	3800		<180
Naphthalene	ug/kg	<5		<330	<4.3	<6.0	<6.7	<3.4
Naphthalene	ug/kg	<200			<200	<870		<180
Phenanthrene	ug/kg	390			<200	1300		<180
Pyrene	ug/kg	440			<200	4000		<180
1,2-Dichloropropane	ug/kg	<2.5		<160	<2.2	<3.0	<3.4	<1.7
Acenaphthene	ug/kg	<200			<200	<870		<180
Acetone	ug/kg	<130		<8200	<110	<150	<170	<85
Acrylonitrile	ug/kg	<7.5		<820	<6.5	<9.0	<10	<5.1
Anthracene	ug/kg	<200			<200	<870		<180
2-Hexanone	ug/kg	<25		<1600	<22	<30	<34	<17
Benzene	ug/kg	<2.5		<160	<2.2	<3.0	<3.4	<1.7
1,2,3-Trichlorobenzene	ug/kg	<2.5		<820	<2.2	<3.0	<3.4	<1.7
1,2,4-Trichlorobenzene	ug/kg	<2.5		<160	<2.2	<3.0	<3.4	<1.7
1,2,4-Trimethylbenzene	ug/kg	2.8		<160	<2.2	<3.0	<3.4	<1.7
o-Dichlorobenzene	ug/kg	<2.5		<160	<2.2	<3.0	<3.4	<1.7
1,3,5-Trimethylbenzene	ug/kg	<2.5		<160	<2.2	<3.0	<3.4	<1.7
m-Dichlorobenzene	ug/kg	<2.5		<160	<2.2	<3.0	<3.4	<1.7
p-Dichlorobenzene	ug/kg	<2.5		<160	<2.2	<3.0	<3.4	<1.7



**Table 6-3**  
**LABORATORY ANALYTICAL RESULTS FOR SOIL SAMPLES**  
**Former Mystic Oral School for the Deaf**

	Location ID	SB-007	SB-007	SB-007	SB-008	SB-008	SB-008	SB-009
	Sample ID	1273748	1273748	1273748	1273781	1273782	1273782	1273863
	Sample Date	01/24/2013	01/24/2013	01/24/2013	01/24/2013	01/24/2013	01/24/2013	01/29/2013
	Sample Time	10:20	10:20	10:20	15:05	15:10	15:10	11:45
	Sample Depth	0' - 0.5'	0' - 0.5'	0' - 0.5'	0' - 0.5'	0.5' - 2.0'	0.5' - 2.0'	0' - 1'
	Laboratory	CONT	CONT	CONT	CONT	CONT	CONT	CONT
	Lab. Number	13A0643-26	13A0643-26RE1	13A0643-26m	13A0643-52	13A0643-53	13A0643-53RE1	13A0745-03
Constituent	Units							
Bromobenzene	ug/kg	<2.5		<160	<2.2	<3.0	<3.4	<1.7
Butyl Benzene	ug/kg	<2.5		<160	<2.2	<3.0	<3.4	<1.7
Chlorobenzene	ug/kg	<2.5		<160	<2.2	<3.0	<3.4	<1.7
Ethylbenzene	ug/kg	35		<160	<2.2	<3.0	<3.4	<1.7
Isopropylbenzene (Cumene)	ug/kg	<2.5		<160	<2.2	<3.0	<3.4	<1.7
Propylbenzene	ug/kg	<2.5		<160	<2.2	<3.0	<3.4	<1.7
sec-Butylbenzene	ug/kg	<2.5		<160	<2.2	<3.0	<3.4	<1.7
tert-Butylbenzene	ug/kg	<2.5		<160	<2.2	<3.0	<3.4	<1.7
Hexachlorobutadiene	ug/kg	<2.5		<160	<2.2	<3.0	<3.4	<1.7
Methyl Ethyl ketone	ug/kg	<50		<3300	<43	<60	<67	<34
trans-1,4-Dichlorobutene	ug/kg	<5		<330	<4.3	<6.0	<6.7	<3.4
Carbon Disulfide	ug/kg	<7.5		<490	<6.5	<9.0	<10	<5.1
Carbon Tetrachloride	ug/kg	<2.5		<160	<2.2	<3.0	<3.4	<1.7
4-Isopropyltoluene	ug/kg	<2.5		<160	<2.2	<3.0	<3.4	<1.7
1,1,1,2-Tetrachloroethane	ug/kg	<2.5		<160	<2.2	<3.0	<3.4	<1.7
1,1,1-Trichloroethane	ug/kg	<2.5		<160	<2.2	<3.0	<3.4	<1.7
1,1,2,2-Tetrachloroethane	ug/kg	<1.3		<82	<1.1	<1.5	<1.7	<0.85
1,1,2-Trichloroethane	ug/kg	<2.5		<160	<2.2	<3.0	<3.4	<1.7
1,1,2-Trichlorotrifluoroethane	ug/kg	<13		<160	<11	<15	<17	<8.5
1,1-Dichloroethane	ug/kg	<2.5		<160	<2.2	<3.0	<3.4	<1.7
Ethylene Dibromide	ug/kg	<1.3		<160	<1.1	<1.5	<1.7	<0.85
1,2-Dichloroethane	ug/kg	<2.5		<160	<2.2	<3.0	<3.4	<1.7
Chloroethane	ug/kg	<25		<330	<22	<30	<34	<17
Methyl tert-Butyl ether	ug/kg	<5		<160	<4.3	<6.0	<6.7	<3.4
1,1-Dichloroethylene	ug/kg	<5		<160	<4.3	<6.0	<6.7	<3.4
trans-1,2-Dichloroethylene	ug/kg	<2.5		<160	<2.2	<3.0	<3.4	<1.7
cis-1,2-Dichloroethylene	ug/kg	<2.5		<160	<2.2	<3.0	<3.4	<1.7
Vinyl Chloride	ug/kg	<13		<330	<11	<15	<17	<8.5



**Table 6-3**  
**LABORATORY ANALYTICAL RESULTS FOR SOIL SAMPLES**  
**Former Mystic Oral School for the Deaf**

	Location ID	SB-007	SB-007	SB-007	SB-008	SB-008	SB-008	SB-009
	Sample ID	1273748	1273748	1273748	1273781	1273782	1273782	1273863
	Sample Date	01/24/2013	01/24/2013	01/24/2013	01/24/2013	01/24/2013	01/24/2013	01/29/2013
	Sample Time	10:20	10:20	10:20	15:05	15:10	15:10	11:45
	Sample Depth	0' - 0.5'	0' - 0.5'	0' - 0.5'	0' - 0.5'	0.5' - 2.0'	0.5' - 2.0'	0' - 1'
	Laboratory	CONT	CONT	CONT	CONT	CONT	CONT	CONT
	Lab. Number	13A0643-26	13A0643-26RE1	13A0643-26m	13A0643-52	13A0643-53	13A0643-53RE1	13A0745-03
Constituent	Units							
Tetrachloroethylene	ug/kg	<2.5		<160	<2.2	<3.0	<3.4	<1.7
Tetrahydrofuran	ug/kg	<13		<1600	<11	<15	<17	<8.5
Bromomethane	ug/kg	<13		<330	<11	<15	<17	<8.5
Bromodichloromethane	ug/kg	<2.5		<330	<2.2	<3.0	<3.4	<1.7
Chloromethane	ug/kg	<13		<330	<11	<15	<17	<8.5
Chlorodibromomethane	ug/kg	<1.3		<82	<1.1	<1.5	<1.7	<0.85
Methylene Dibromide	ug/kg	<2.5		<160	<2.2	<3.0	<3.4	<1.7
Methylene Chloride	ug/kg	<25		<820	<22	<30	<34	<17
Dichlorodifluoromethane	ug/kg	<25		<330	<22	<30	<34	<17
Bromoform	ug/kg	<2.5		<160	<2.2	<3.0	<3.4	<1.7
Chloroform	ug/kg	<5		<330	<4.3	<6.0	<6.7	<3.4
Trichlorofluoromethane	ug/kg	<13		<330	<11	<15	<17	<8.5
beta-Methylnaphthalene	ug/kg	<200			<200	<870		<180
Methyl Isobutyl ketone	ug/kg	<25		<1600	<22	<30	<34	<17
1,2,3-Trichloropropane	ug/kg	<2.5		<330	<2.2	<3.0	<3.4	<1.7
1,2-Dibromo-3-Chloropropane	ug/kg	<2.5		<820	<2.2	<3.0	<3.4	<1.7
1,3-Dichloropropane	ug/kg	<1.3		<82	<1.1	<1.5	<1.7	<0.85
sec-Dichloropropane	ug/kg	<2.5		<160	<2.2	<3.0	<3.4	<1.7
1,1-Dichloropropene	ug/kg	<2.5		<330	<2.2	<3.0	<3.4	<1.7
trans-1,3-Dichloropropene	ug/kg	<1.3		<82	<1.1	<1.5	<1.7	<0.85
cis-1,3-Dichloropropene	ug/kg	<1.3		<82	<1.1	<1.5	<1.7	<0.85
Styrene	ug/kg	<2.5		<160	<2.2	<3.0	<3.4	<1.7
Toluene	ug/kg	490 E		160	<2.2	<3.0	<3.4	<1.7
o-Chlorotoluene	ug/kg	<2.5		<160	<2.2	<3.0	<3.4	<1.7
p-Chlorotoluene	ug/kg	<2.5		<160	<2.2	<3.0	<3.4	<1.7
Trichloroethylene	ug/kg	<2.5		<160	<2.2	<3.0	<3.4	<1.7
o-Xylene	ug/kg	50		<160	<2.2	<3.0	<3.4	<1.7
Xylenes,m- & p-	ug/kg	150		<330	<4.3	<6.0	<6.7	<3.4



**Table 6-3**  
**LABORATORY ANALYTICAL RESULTS FOR SOIL SAMPLES**  
**Former Mystic Oral School for the Deaf**

	Location ID	SB-010	SB-011	SB-012	SB-014	SB-015	SB-016	SB-022
	Sample ID	1273864	1273865	1273866	1273801	1273802	1273803	1273800
	Sample Date	01/29/2013	01/29/2013	01/29/2013	01/25/2013	01/25/2013	01/25/2013	01/25/2013
	Sample Time	13:05	13:30	14:15	15:55	15:50	16:05	10:45
	Sample Depth	0' - 1.8'	0' - 1.5'	0' - 2'	0' - 2'	0' - 2'	0' - 2'	0.0' - 0.5'
	Laboratory	CONT	CONT	CONT	CONT	CONT	CONT	CONT
	Lab. Number	13A0745-04	13A0745-05	13A0745-06	13A0687-38	13A0687-39	13A0687-40	13A0687-01
Constituent	Units							
Date PCBs Analyzed	-				01/31/2013	01/31/2013	01/31/2013	
Date Metals Analyzed	-	02/02/2013	02/02/2013	02/02/2013	01/30/2013	01/30/2013	01/30/2013	
Date Organics Analyzed	-	02/01/2013	02/01/2013	02/01/2013				01/30/2013
Date Pesticides/Herbicides Analyzed	-							01/31/2013
Date Physical Analyzed	-	02/05/2013	02/05/2013	02/05/2013	02/01/2013	02/01/2013	02/01/2013	01/31/2013
Date Semivolatile Organics Analyzed	-	02/04/2013	02/04/2013	02/04/2013	01/31/2013	01/31/2013	01/31/2013	01/31/2013
Alachlor	ug/kg							<25
2,4,5-Trichlorophenoxyacetic acid	ug/kg							
2,4-Dichlorophenoxyacetic acid	ug/kg							
Dicamba	ug/kg							
Dalapon	ug/kg							
Silvex	ug/kg							
Arsenic	mg/kg	<2.5	<2.7	<2.6	<2.7	<2.8	<2.6	
Barium	mg/kg	60	62	62	14	14	34	
Cadmium	mg/kg	<0.25	<0.27	<0.26	<0.27	<0.28	<0.26	
Chromium, Total	mg/kg	19	19	17	8.0	10	4.9	
Copper	mg/kg	24	14	15	2.9	3.4	5.1	
Lead	mg/kg	5.1	5.3	5.6	3.3	5.9	1.9	
Mercury	mg/kg	<0.026	<0.027	<0.027	<0.028	<0.028	<0.027	
Nickel	mg/kg	14	12	11	3.8	4.9	3.3	
Selenium	mg/kg	<4.9	<5.4	<5.3	<5.4	<5.7	<5.2	
Silver	mg/kg	<0.49	<0.54	<0.53	<0.54	<0.57	<0.52	
Zinc	mg/kg	25	22	23	15	18	16	
Arochlor 1016	ug/kg				<110	<120	<110	
Arochlor 1221	ug/kg				<110	<120	<110	
Arochlor 1232	ug/kg				<110	<120	<110	
Arochlor 1242	ug/kg				<110	<120	<110	
Arochlor 1248	ug/kg				<110	<120	<110	



**Table 6-3**  
**LABORATORY ANALYTICAL RESULTS FOR SOIL SAMPLES**  
**Former Mystic Oral School for the Deaf**

	Location ID	SB-010	SB-011	SB-012	SB-014	SB-015	SB-016	SB-022
	Sample ID	1273864	1273865	1273866	1273801	1273802	1273803	1273800
	Sample Date	01/29/2013	01/29/2013	01/29/2013	01/25/2013	01/25/2013	01/25/2013	01/25/2013
	Sample Time	13:05	13:30	14:15	15:55	15:50	16:05	10:45
	Sample Depth	0' - 1.8'	0' - 1.5'	0' - 2'	0' - 2'	0' - 2'	0' - 2'	0.0' - 0.5'
	Laboratory	CONT	CONT	CONT	CONT	CONT	CONT	CONT
	Lab. Number	13A0745-04	13A0745-05	13A0745-06	13A0687-38	13A0687-39	13A0687-40	13A0687-01
Constituent	Units							
Arochlor 1254	ug/kg				<110	<120	<110	
Arochlor 1260	ug/kg				<110	<120	<110	
Arochlor 1262	ug/kg				<110	<120	<110	
Arochlor 1268	ug/kg				<110	<120	<110	
Aldrin	ug/kg							<6.3
Hexachlorobenzene	ug/kg							<7.6
Chlordane	ug/kg							<25
BHC(alpha-)	ug/kg							<6.3
BHC(beta-)	ug/kg							<6.3
BHC(delta-)	ug/kg							<6.3
Lindane	ug/kg							<2.5
Dieldrin	ug/kg							<5.1
Endrin	ug/kg							<10
Endrin aldehyde	ug/kg							<10
Endrin ketone	ug/kg							<10
p,p'-DDT	ug/kg							<5.1
Methoxychlor	ug/kg							<63
p,p'-DDD	ug/kg							<5.1
p,p'-DDE	ug/kg							<5.1
Heptachlor Epoxide	ug/kg							<6.3
Heptachlor	ug/kg							<6.3
Endosulfan Sulfate	ug/kg							<10
Alpha Endosulfan	ug/kg							<6.3
Beta Endosulfan	ug/kg							<10
Toxaphene	ug/kg							<130
Cyanide	mg/kg							
Total Petroleum Hydrocarbons (CT ETPH)	mg/kg	11	<11	16	<11	140	<11	65
Acenaphthylene	ug/kg	<180	<180	<190	<190	770	<180	<210



**Table 6-3**  
**LABORATORY ANALYTICAL RESULTS FOR SOIL SAMPLES**  
**Former Mystic Oral School for the Deaf**

	Location ID	SB-010	SB-011	SB-012	SB-014	SB-015	SB-016	SB-022
	Sample ID	1273864	1273865	1273866	1273801	1273802	1273803	1273800
	Sample Date	01/29/2013	01/29/2013	01/29/2013	01/25/2013	01/25/2013	01/25/2013	01/25/2013
	Sample Time	13:05	13:30	14:15	15:55	15:50	16:05	10:45
	Sample Depth	0' - 1.8'	0' - 1.5'	0' - 2'	0' - 2'	0' - 2'	0' - 2'	0.0' - 0.5'
	Laboratory	CONT	CONT	CONT	CONT	CONT	CONT	CONT
	Lab. Number	13A0745-04	13A0745-05	13A0745-06	13A0687-38	13A0687-39	13A0687-40	13A0687-01
Constituent	Units							
Benzo[a]anthracene	ug/kg	<180	<180	<190	<190	930	<180	<210
Benzo[b]fluoranthene	ug/kg	<180	<180	<190	<190	1100	<180	<210
Benzo(a)pyrene	ug/kg	<180	<180	<190	<190	960	<180	<210
Benzo(g,h,i)perylene	ug/kg	<180	<180	<190	<190	820	<180	<210
Benzo(k)fluoranthene	ug/kg	<180	<180	<190	<190	520	<180	<210
Chrysene	ug/kg	<180	<180	<190	<190	1000	<180	<210
Dibenz(a,h)anthracene	ug/kg	<180	<180	<190	<190	<200	<180	<210
Fluoranthene	ug/kg	<180	<180	<190	<190	2000	<180	320
Fluorene	ug/kg	<180	<180	<190	<190	340	<180	<210
Indeno(1,2,3-c,d)pyrene	ug/kg	<180	<180	<190	<190	950	<180	<210
Naphthalene	ug/kg	<3.4	<3.3	<1.5				<16
Naphthalene	ug/kg	<180	<180	<190	<190	<200	<180	<210
Phenanthrene	ug/kg	<180	<180	<190	200	2200	<180	<210
Pyrene	ug/kg	<180	<180	<190	<190	2100	<180	300
1,2-Dichloropropane	ug/kg	<1.7	<1.7	<0.75				<8.0
Acenaphthene	ug/kg	<180	<180	<190	<190	<200	<180	<210
Acetone	ug/kg	<84	<83	<37				<400
Acrylonitrile	ug/kg	<5.1	<5.0	<2.2				<24
Anthracene	ug/kg	<180	<180	<190	<190	440	<180	<210
2-Hexanone	ug/kg	<17	<17	<7.5				<80
Benzene	ug/kg	<1.7	<1.7	<0.75				<8.0
1,2,3-Trichlorobenzene	ug/kg	<1.7	<1.7	<0.75				<8.0
1,2,4-Trichlorobenzene	ug/kg	<1.7	<1.7	<0.75				<8.0
1,2,4-Trimethylbenzene	ug/kg	<1.7	<1.7	<0.75				<8.0
o-Dichlorobenzene	ug/kg	<1.7	<1.7	<0.75				<8.0
1,3,5-Trimethylbenzene	ug/kg	<1.7	<1.7	<0.75				<8.0
m-Dichlorobenzene	ug/kg	<1.7	<1.7	<0.75				<8.0
p-Dichlorobenzene	ug/kg	<1.7	<1.7	<0.75				<8.0



**Table 6-3**  
**LABORATORY ANALYTICAL RESULTS FOR SOIL SAMPLES**  
**Former Mystic Oral School for the Deaf**

	Location ID	SB-010	SB-011	SB-012	SB-014	SB-015	SB-016	SB-022
	Sample ID	1273864	1273865	1273866	1273801	1273802	1273803	1273800
	Sample Date	01/29/2013	01/29/2013	01/29/2013	01/25/2013	01/25/2013	01/25/2013	01/25/2013
	Sample Time	13:05	13:30	14:15	15:55	15:50	16:05	10:45
	Sample Depth	0' - 1.8'	0' - 1.5'	0' - 2'	0' - 2'	0' - 2'	0' - 2'	0.0' - 0.5'
	Laboratory	CONT	CONT	CONT	CONT	CONT	CONT	CONT
	Lab. Number	13A0745-04	13A0745-05	13A0745-06	13A0687-38	13A0687-39	13A0687-40	13A0687-01
Constituent	Units							
Bromobenzene	ug/kg	<1.7	<1.7	<0.75				<8.0
Butyl Benzene	ug/kg	<1.7	<1.7	<0.75				<8.0
Chlorobenzene	ug/kg	<1.7	<1.7	<0.75				<8.0
Ethylbenzene	ug/kg	<1.7	<1.7	<0.75				<8.0
Isopropylbenzene (Cumene)	ug/kg	<1.7	<1.7	<0.75				<8.0
Propylbenzene	ug/kg	<1.7	<1.7	<0.75				<8.0
sec-Butylbenzene	ug/kg	<1.7	<1.7	<0.75				<8.0
tert-Butylbenzene	ug/kg	<1.7	<1.7	<0.75				<8.0
Hexachlorobutadiene	ug/kg	<1.7	<1.7	<0.75				<8.0
Methyl Ethyl ketone	ug/kg	<34	<33	<15				<160
trans-1,4-Dichlorobutene	ug/kg	<3.4	<3.3	<1.5				<16
Carbon Disulfide	ug/kg	<5.1	<5.0	<2.2				<24
Carbon Tetrachloride	ug/kg	<1.7	<1.7	<0.75				<8.0
4-Isopropyltoluene	ug/kg	<1.7	<1.7	<0.75				<8.0
1,1,1,2-Tetrachloroethane	ug/kg	<1.7	<1.7	<0.75				<8.0
1,1,1-Trichloroethane	ug/kg	<1.7	<1.7	<0.75				<8.0
1,1,2,2-Tetrachloroethane	ug/kg	<0.84	<0.83	<0.37				<4.0
1,1,2-Trichloroethane	ug/kg	<1.7	<1.7	<0.75				<8.0
1,1,2-Trichlorotrifluoroethane	ug/kg	<8.4	<8.3	<3.7				<40
1,1-Dichloroethane	ug/kg	<1.7	<1.7	<0.75				<8.0
Ethylene Dibromide	ug/kg	<0.84	<0.83	<0.37				<4.0
1,2-Dichloroethane	ug/kg	<1.7	<1.7	<0.75				<8.0
Chloroethane	ug/kg	<17	<17	<7.5				<80
Methyl tert-Butyl ether	ug/kg	<3.4	<3.3	<1.5				<16
1,1-Dichloroethylene	ug/kg	<3.4	<3.3	<1.5				<16
trans-1,2-Dichloroethylene	ug/kg	<1.7	<1.7	<0.75				<8.0
cis-1,2-Dichloroethylene	ug/kg	<1.7	<1.7	<0.75				<8.0
Vinyl Chloride	ug/kg	<8.4	<8.3	<3.7				<40



**Table 6-3**  
**LABORATORY ANALYTICAL RESULTS FOR SOIL SAMPLES**  
**Former Mystic Oral School for the Deaf**

	Location ID	SB-010	SB-011	SB-012	SB-014	SB-015	SB-016	SB-022
	Sample ID	1273864	1273865	1273866	1273801	1273802	1273803	1273800
	Sample Date	01/29/2013	01/29/2013	01/29/2013	01/25/2013	01/25/2013	01/25/2013	01/25/2013
	Sample Time	13:05	13:30	14:15	15:55	15:50	16:05	10:45
	Sample Depth	0' - 1.8'	0' - 1.5'	0' - 2'	0' - 2'	0' - 2'	0' - 2'	0.0' - 0.5'
	Laboratory	CONT	CONT	CONT	CONT	CONT	CONT	CONT
	Lab. Number	13A0745-04	13A0745-05	13A0745-06	13A0687-38	13A0687-39	13A0687-40	13A0687-01
Constituent	Units							
Tetrachloroethylene	ug/kg	<1.7	<1.7	<0.75				<8.0
Tetrahydrofuran	ug/kg	<8.4	<8.3	<3.7				<40
Bromomethane	ug/kg	<8.4	<8.3	<3.7				<40
Bromodichloromethane	ug/kg	<1.7	<1.7	<0.75				<8.0
Chloromethane	ug/kg	<8.4	<8.3	<3.7				<40
Chlorodibromomethane	ug/kg	<0.84	<0.83	<0.37				<4.0
Methylene Dibromide	ug/kg	<1.7	<1.7	<0.75				<8.0
Methylene Chloride	ug/kg	<17	<17	<7.5				<80
Dichlorodifluoromethane	ug/kg	<17	<17	<7.5				<80
Bromoform	ug/kg	<1.7	<1.7	<0.75				<8.0
Chloroform	ug/kg	<3.4	<3.3	<1.5				<16
Trichlorofluoromethane	ug/kg	<8.4	<8.3	<3.7				<40
beta-Methylnaphthalene	ug/kg	<180	<180	<190	<190	<200	<180	<210
Methyl Isobutyl ketone	ug/kg	<17	<17	<7.5				<80
1,2,3-Trichloropropane	ug/kg	<1.7	<1.7	<0.75				<8.0
1,2-Dibromo-3-Chloropropane	ug/kg	<1.7	<1.7	<0.75				<8.0
1,3-Dichloropropane	ug/kg	<0.84	<0.83	<0.37				<4.0
sec-Dichloropropane	ug/kg	<1.7	<1.7	<0.75				<8.0
1,1-Dichloropropene	ug/kg	<1.7	<1.7	<0.75				<8.0
trans-1,3-Dichloropropene	ug/kg	<0.84	<0.83	<0.37				<4.0
cis-1,3-Dichloropropene	ug/kg	<0.84	<0.83	<0.37				<4.0
Styrene	ug/kg	<1.7	<1.7	<0.75				<8.0
Toluene	ug/kg	<1.7	<1.7	<0.75				<8.0
o-Chlorotoluene	ug/kg	<1.7	<1.7	<0.75				<8.0
p-Chlorotoluene	ug/kg	<1.7	<1.7	<0.75				<8.0
Trichloroethylene	ug/kg	<1.7	<1.7	<0.75				<8.0
o-Xylene	ug/kg	<1.7	<1.7	<0.75				<8.0
Xylenes,m- & p-	ug/kg	<3.4	<3.3	<1.5				<16



**Table 6-3**  
**LABORATORY ANALYTICAL RESULTS FOR SOIL SAMPLES**  
**Former Mystic Oral School for the Deaf**

	Location ID	SB-022	SB-023	SB-023	SB-023	SB-028	SB-028	SB-029
	Sample ID	1273804	1273805	1273805	1273806	1273808	1273810	1273807
	Sample Date	01/25/2013	01/25/2013	01/25/2013	01/25/2013	01/25/2013	01/25/2013	01/25/2013
	Sample Time	10:50	11:05	11:05	11:10	11:50	12:00	11:30
	Sample Depth	0.5' - 2.0'	0.0' - 0.5'	0.0' - 0.5'	0.5' - 2.0'	0' - 2'	4' - 5.5'	0.0' - 2.0'
	Laboratory	CONT	CONT	CONT	CONT	CONT	CONT	CONT
	Lab. Number	13A0687-02	13A0687-03	13A0687-03RE1	13A0687-04	13A0687-06	13A0687-08	13A0687-05
Constituent	Units							
Date PCBs Analyzed	-							
Date Metals Analyzed	-		02/01/2013		02/01/2013	01/30/2013	01/30/2013	01/30/2013
Date Organics Analyzed	-	01/30/2013	01/30/2013		01/30/2013	01/30/2013	01/30/2013	01/30/2013
Date Pesticides/Herbicides Analyzed	-		02/01/2013					
Date Physical Analyzed	-	01/31/2013	02/01/2013		01/31/2013	01/30/2013	01/31/2013	01/31/2013
Date Semivolatile Organics Analyzed	-	01/31/2013	01/31/2013	01/31/2013	02/01/2013	01/31/2013	01/31/2013	01/31/2013
Alachlor	ug/kg		<27					
2,4,5-Trichlorophenoxyacetic acid	ug/kg							
2,4-Dichlorophenoxyacetic acid	ug/kg							
Dicamba	ug/kg							
Dalapon	ug/kg							
Silvex	ug/kg							
Arsenic	mg/kg		<3.3		<2.8	<2.7	<2.6	<2.7
Barium	mg/kg		55		34	24	24	23
Cadmium	mg/kg		0.44		<0.28	<0.27	<0.26	<0.27
Chromium, Total	mg/kg		13		14	7.8	12	9.4
Copper	mg/kg		16		8.7	6.2	6.6	3.5
Lead	mg/kg		610		14	3.4	1.9	9.0
Mercury	mg/kg		0.13		0.040	<0.027	<0.026	0.042
Nickel	mg/kg		7.2		7.4	5.0	5.0	4.4
Selenium	mg/kg		<6.5		<5.7	<5.3	<5.1	<5.5
Silver	mg/kg		<0.65		<0.57	<0.53	<0.51	<0.55
Zinc	mg/kg		160		36	16	15	18
Arochlor 1016	ug/kg							
Arochlor 1221	ug/kg							
Arochlor 1232	ug/kg							
Arochlor 1242	ug/kg							
Arochlor 1248	ug/kg							



**Table 6-3**  
**LABORATORY ANALYTICAL RESULTS FOR SOIL SAMPLES**  
**Former Mystic Oral School for the Deaf**

	Location ID	SB-022	SB-023	SB-023	SB-023	SB-028	SB-028	SB-029
	Sample ID	1273804	1273805	1273805	1273806	1273808	1273810	1273807
	Sample Date	01/25/2013	01/25/2013	01/25/2013	01/25/2013	01/25/2013	01/25/2013	01/25/2013
	Sample Time	10:50	11:05	11:05	11:10	11:50	12:00	11:30
	Sample Depth	0.5' - 2.0'	0.0' - 0.5'	0.0' - 0.5'	0.5' - 2.0'	0' - 2'	4' - 5.5'	0.0' - 2.0'
	Laboratory	CONT	CONT	CONT	CONT	CONT	CONT	CONT
	Lab. Number	13A0687-02	13A0687-03	13A0687-03RE1	13A0687-04	13A0687-06	13A0687-08	13A0687-05
Constituent	Units							
Arochlor 1254	ug/kg							
Arochlor 1260	ug/kg							
Arochlor 1262	ug/kg							
Arochlor 1268	ug/kg							
Aldrin	ug/kg		<6.7					
Hexachlorobenzene	ug/kg		<8.0					
Chlordane	ug/kg		<27					
BHC(alpha-)	ug/kg		<6.7					
BHC(beta-)	ug/kg		<6.7					
BHC(delta-)	ug/kg		<6.7					
Lindane	ug/kg		<2.7					
Dieldrin	ug/kg		<5.3					
Endrin	ug/kg		<11					
Endrin aldehyde	ug/kg		<11					
Endrin ketone	ug/kg		<11					
p,p'-DDT	ug/kg		<5.3					
Methoxychlor	ug/kg		<67					
p,p'-DDD	ug/kg		<5.3					
p,p'-DDE	ug/kg		<5.3					
Heptachlor Epoxide	ug/kg		<6.7					
Heptachlor	ug/kg		<6.7					
Endosulfan Sulfate	ug/kg		<11					
Alpha Endosulfan	ug/kg		<6.7					
Beta Endosulfan	ug/kg		<11					
Toxaphene	ug/kg		<130					
Cyanide	mg/kg							
Total Petroleum Hydrocarbons (CT ETPH)	mg/kg	82	240		44	<11	200	24
Acenaphthylene	ug/kg	<210	<440		<200	<180	<180	<190



**Table 6-3**  
**LABORATORY ANALYTICAL RESULTS FOR SOIL SAMPLES**  
**Former Mystic Oral School for the Deaf**

	Location ID	SB-022	SB-023	SB-023	SB-023	SB-028	SB-028	SB-029
	Sample ID	1273804	1273805	1273805	1273806	1273808	1273810	1273807
	Sample Date	01/25/2013	01/25/2013	01/25/2013	01/25/2013	01/25/2013	01/25/2013	01/25/2013
	Sample Time	10:50	11:05	11:05	11:10	11:50	12:00	11:30
	Sample Depth	0.5' - 2.0'	0.0' - 0.5'	0.0' - 0.5'	0.5' - 2.0'	0' - 2'	4' - 5.5'	0.0' - 2.0'
	Laboratory	CONT	CONT	CONT	CONT	CONT	CONT	CONT
	Lab. Number	13A0687-02	13A0687-03	13A0687-03RE1	13A0687-04	13A0687-06	13A0687-08	13A0687-05
Constituent	Units							
Benzo[a]anthracene	ug/kg	220	4700		<200	<180	<180	<190
Benzo[b]fluoranthene	ug/kg	320	4400		<200	<180	<180	<190
Benzo(a)pyrene	ug/kg	230	3400		<200	<180	<180	<190
Benzo(g,h,i)perylene	ug/kg	<210	1000		<200	<180	<180	<190
Benzo(k)fluoranthene	ug/kg	<210	1500		<200	<180	<180	<190
Chrysene	ug/kg	290	5500		<200	<180	<180	<190
Dibenz(a,h)anthracene	ug/kg	<210	530		<200	<180	<180	<190
Fluoranthene	ug/kg	400	8000		<200	<180	<180	<190
Fluorene	ug/kg	<210	<440		<200	<180	<180	<190
Indeno(1,2,3-c,d)pyrene	ug/kg	260	1400		<200	<180	<180	<190
Naphthalene	ug/kg	<5.7	<8.5		<9.6	<5.6	<8.5	<6.4
Naphthalene	ug/kg	<210	<440		<200	<180	<180	<190
Phenanthrene	ug/kg	380		10000	<200	<180	450	<190
Pyrene	ug/kg	410	7700		<200	<180	<180	<190
1,2-Dichloropropane	ug/kg	<2.8	<4.2		<4.8	<2.8	<4.3	<3.2
Acenaphthene	ug/kg	<210	<440		<200	<180	<180	<190
Acetone	ug/kg	<140	<210		<240	<140	<210	<160
Acrylonitrile	ug/kg	<8.5	<13		<14	<8.4	<13	<9.6
Anthracene	ug/kg	<210	1800		<200	<180	<180	<190
2-Hexanone	ug/kg	<28	<42		<48	<28	<43	<32
Benzene	ug/kg	<2.8	<4.2		<4.8	<2.8	<4.3	<3.2
1,2,3-Trichlorobenzene	ug/kg	<2.8	<4.2		<4.8	<2.8	<4.3	<3.2
1,2,4-Trichlorobenzene	ug/kg	<2.8	<4.2		<4.8	<2.8	<4.3	<3.2
1,2,4-Trimethylbenzene	ug/kg	<2.8	<4.2		<4.8	<2.8	<4.3	<3.2
o-Dichlorobenzene	ug/kg	<2.8	<4.2		<4.8	<2.8	<4.3	<3.2
1,3,5-Trimethylbenzene	ug/kg	<2.8	<4.2		<4.8	<2.8	<4.3	<3.2
m-Dichlorobenzene	ug/kg	<2.8	<4.2		<4.8	<2.8	<4.3	<3.2
p-Dichlorobenzene	ug/kg	<2.8	<4.2		<4.8	<2.8	<4.3	<3.2



**Table 6-3**  
**LABORATORY ANALYTICAL RESULTS FOR SOIL SAMPLES**  
**Former Mystic Oral School for the Deaf**

	Location ID	SB-022	SB-023	SB-023	SB-023	SB-028	SB-028	SB-029
	Sample ID	1273804	1273805	1273805	1273806	1273808	1273810	1273807
	Sample Date	01/25/2013	01/25/2013	01/25/2013	01/25/2013	01/25/2013	01/25/2013	01/25/2013
	Sample Time	10:50	11:05	11:05	11:10	11:50	12:00	11:30
	Sample Depth	0.5' - 2.0'	0.0' - 0.5'	0.0' - 0.5'	0.5' - 2.0'	0' - 2'	4' - 5.5'	0.0' - 2.0'
	Laboratory	CONT	CONT	CONT	CONT	CONT	CONT	CONT
	Lab. Number	13A0687-02	13A0687-03	13A0687-03RE1	13A0687-04	13A0687-06	13A0687-08	13A0687-05
Constituent	Units							
Bromobenzene	ug/kg	<2.8	<4.2		<4.8	<2.8	<4.3	<3.2
Butyl Benzene	ug/kg	<2.8	<4.2		<4.8	<2.8	<4.3	<3.2
Chlorobenzene	ug/kg	<2.8	<4.2		<4.8	<2.8	<4.3	<3.2
Ethylbenzene	ug/kg	<2.8	<4.2		<4.8	<2.8	<4.3	<3.2
Isopropylbenzene (Cumene)	ug/kg	<2.8	<4.2		<4.8	<2.8	<4.3	<3.2
Propylbenzene	ug/kg	<2.8	<4.2		<4.8	<2.8	<4.3	<3.2
sec-Butylbenzene	ug/kg	<2.8	<4.2		<4.8	<2.8	<4.3	<3.2
tert-Butylbenzene	ug/kg	<2.8	<4.2		<4.8	<2.8	<4.3	<3.2
Hexachlorobutadiene	ug/kg	<2.8	<4.2		<4.8	<2.8	<4.3	<3.2
Methyl Ethyl ketone	ug/kg	<57	<85		<96	<56	<85	<64
trans-1,4-Dichlorobutene	ug/kg	<5.7	<8.5		<9.6	<5.6	<8.5	<6.4
Carbon Disulfide	ug/kg	<8.5	<13		<14	<8.4	<13	<9.6
Carbon Tetrachloride	ug/kg	<2.8	<4.2		<4.8	<2.8	<4.3	<3.2
4-Isopropyltoluene	ug/kg	<2.8	<4.2		<4.8	<2.8	<4.3	<3.2
1,1,1,2-Tetrachloroethane	ug/kg	<2.8	<4.2		<4.8	<2.8	<4.3	<3.2
1,1,1-Trichloroethane	ug/kg	<2.8	<4.2		<4.8	<2.8	<4.3	<3.2
1,1,2,2-Tetrachloroethane	ug/kg	<1.4	<2.1		<2.4	<1.4	<2.1	<1.6
1,1,2-Trichloroethane	ug/kg	<2.8	<4.2		<4.8	<2.8	<4.3	<3.2
1,1,2-Trichlorotrifluoroethane	ug/kg	<14	<21		<24	<14	<21	<16
1,1-Dichloroethane	ug/kg	<2.8	<4.2		<4.8	<2.8	<4.3	<3.2
Ethylene Dibromide	ug/kg	<1.4	<2.1		<2.4	<1.4	<2.1	<1.6
1,2-Dichloroethane	ug/kg	<2.8	<4.2		<4.8	<2.8	<4.3	<3.2
Chloroethane	ug/kg	<28	<42		<48	<28	<43	<32
Methyl tert-Butyl ether	ug/kg	<5.7	<8.5		<9.6	<5.6	<8.5	<6.4
1,1-Dichloroethylene	ug/kg	<5.7	<8.5		<9.6	<5.6	<8.5	<6.4
trans-1,2-Dichloroethylene	ug/kg	<2.8	<4.2		<4.8	<2.8	<4.3	<3.2
cis-1,2-Dichloroethylene	ug/kg	<2.8	<4.2		<4.8	<2.8	<4.3	<3.2
Vinyl Chloride	ug/kg	<14	<21		<24	<14	<21	<16



**Table 6-3**  
**LABORATORY ANALYTICAL RESULTS FOR SOIL SAMPLES**  
**Former Mystic Oral School for the Deaf**

	Location ID	SB-022	SB-023	SB-023	SB-023	SB-028	SB-028	SB-029
	Sample ID	1273804	1273805	1273805	1273806	1273808	1273810	1273807
	Sample Date	01/25/2013	01/25/2013	01/25/2013	01/25/2013	01/25/2013	01/25/2013	01/25/2013
	Sample Time	10:50	11:05	11:05	11:10	11:50	12:00	11:30
	Sample Depth	0.5' - 2.0'	0.0' - 0.5'	0.0' - 0.5'	0.5' - 2.0'	0' - 2'	4' - 5.5'	0.0' - 2.0'
	Laboratory	CONT	CONT	CONT	CONT	CONT	CONT	CONT
	Lab. Number	13A0687-02	13A0687-03	13A0687-03RE1	13A0687-04	13A0687-06	13A0687-08	13A0687-05
Constituent	Units							
Tetrachloroethylene	ug/kg	<2.8	<4.2		<4.8	<2.8	<4.3	<3.2
Tetrahydrofuran	ug/kg	<14	<21		<24	<14	<21	<16
Bromomethane	ug/kg	<14	<21		<24	<14	<21	<16
Bromodichloromethane	ug/kg	<2.8	<4.2		<4.8	<2.8	<4.3	<3.2
Chloromethane	ug/kg	<14	<21		<24	<14	<21	<16
Chlorodibromomethane	ug/kg	<1.4	<2.1		<2.4	<1.4	<2.1	<1.6
Methylene Dibromide	ug/kg	<2.8	<4.2		<4.8	<2.8	<4.3	<3.2
Methylene Chloride	ug/kg	<28	<42		<48	<28	<43	<32
Dichlorodifluoromethane	ug/kg	<28	<42		<48	<28	<43	<32
Bromoform	ug/kg	<2.8	<4.2		<4.8	<2.8	<4.3	<3.2
Chloroform	ug/kg	<5.7	<8.5		<9.6	<5.6	<8.5	<6.4
Trichlorofluoromethane	ug/kg	<14	<21		<24	<14	<21	<16
beta-Methylnaphthalene	ug/kg	<210	<440		<200	<180	<180	<190
Methyl Isobutyl ketone	ug/kg	<28	<42		<48	<28	<43	<32
1,2,3-Trichloropropane	ug/kg	<2.8	<4.2		<4.8	<2.8	<4.3	<3.2
1,2-Dibromo-3-Chloropropane	ug/kg	<2.8	<4.2		<4.8	<2.8	<4.3	<3.2
1,3-Dichloropropane	ug/kg	<1.4	<2.1		<2.4	<1.4	<2.1	<1.6
sec-Dichloropropane	ug/kg	<2.8	<4.2		<4.8	<2.8	<4.3	<3.2
1,1-Dichloropropene	ug/kg	<2.8	<4.2		<4.8	<2.8	<4.3	<3.2
trans-1,3-Dichloropropene	ug/kg	<1.4	<2.1		<2.4	<1.4	<2.1	<1.6
cis-1,3-Dichloropropene	ug/kg	<1.4	<2.1		<2.4	<1.4	<2.1	<1.6
Styrene	ug/kg	<2.8	<4.2		<4.8	<2.8	<4.3	<3.2
Toluene	ug/kg	<2.8	<4.2		<4.8	<2.8	<4.3	<3.2
o-Chlorotoluene	ug/kg	<2.8	<4.2		<4.8	<2.8	<4.3	<3.2
p-Chlorotoluene	ug/kg	<2.8	<4.2		<4.8	<2.8	<4.3	<3.2
Trichloroethylene	ug/kg	<2.8	<4.2		<4.8	<2.8	<4.3	<3.2
o-Xylene	ug/kg	<2.8	<4.2		<4.8	<2.8	<4.3	<3.2
Xylenes,m- & p-	ug/kg	<5.7	<8.5		<9.6	<5.6	<8.5	<6.4



**Table 6-3**  
**LABORATORY ANALYTICAL RESULTS FOR SOIL SAMPLES**  
**Former Mystic Oral School for the Deaf**

	Location ID	SB-032	SB-032	SB-033	SB-033	SB-034	SB-034	SB-035
	Sample ID	1273844	1273852	1273840	1273841	1273765	1273765	1273766
	Sample Date	01/28/2013	01/28/2013	01/28/2013	01/28/2013	01/24/2013	01/24/2013	01/24/2013
	Sample Time	11:38	14:42	11:20	11:22	11:33	11:33	11:38
	Sample Depth	2' - 4'	6' - 7.5'	2' - 4'	4' - 6'	0' - 2'	0' - 2'	0' - 2'
	Laboratory	CONT	CONT	CONT	CONT	CONT	CONT	CONT
	Lab. Number	13A0744-26	13A0744-34	13A0744-22	13A0744-23	13A0643-14	13A0643-14RE1	13A0643-12
Constituent	Units							
Date PCBs Analyzed	-							
Date Metals Analyzed	-							
Date Organics Analyzed	-	02/01/2013	02/01/2013	02/01/2013	02/01/2013	01/29/2013		01/29/2013
Date Pesticides/Herbicides Analyzed	-							
Date Physical Analyzed	-	02/05/2013	02/06/2013	02/06/2013	02/06/2013		01/31/2013	
Date Semivolatile Organics Analyzed	-	02/04/2013	02/04/2013	02/04/2013	02/05/2013	01/28/2013		01/28/2013
Alachlor	ug/kg							
2,4,5-Trichlorophenoxyacetic acid	ug/kg							
2,4-Dichlorophenoxyacetic acid	ug/kg							
Dicamba	ug/kg							
Dalapon	ug/kg							
Silvex	ug/kg							
Arsenic	mg/kg							
Barium	mg/kg							
Cadmium	mg/kg							
Chromium, Total	mg/kg							
Copper	mg/kg							
Lead	mg/kg							
Mercury	mg/kg							
Nickel	mg/kg							
Selenium	mg/kg							
Silver	mg/kg							
Zinc	mg/kg							
Arochlor 1016	ug/kg							
Arochlor 1221	ug/kg							
Arochlor 1232	ug/kg							
Arochlor 1242	ug/kg							
Arochlor 1248	ug/kg							



**Table 6-3**  
**LABORATORY ANALYTICAL RESULTS FOR SOIL SAMPLES**  
**Former Mystic Oral School for the Deaf**

	Location ID	SB-032	SB-032	SB-033	SB-033	SB-034	SB-034	SB-035
	Sample ID	1273844	1273852	1273840	1273841	1273765	1273765	1273766
	Sample Date	01/28/2013	01/28/2013	01/28/2013	01/28/2013	01/24/2013	01/24/2013	01/24/2013
	Sample Time	11:38	14:42	11:20	11:22	11:33	11:33	11:38
	Sample Depth	2' - 4'	6' - 7.5'	2' - 4'	4' - 6'	0' - 2'	0' - 2'	0' - 2'
	Laboratory	CONT	CONT	CONT	CONT	CONT	CONT	CONT
	Lab. Number	13A0744-26	13A0744-34	13A0744-22	13A0744-23	13A0643-14	13A0643-14RE1	13A0643-12
Constituent	Units							
Arochlor 1254	ug/kg							
Arochlor 1260	ug/kg							
Arochlor 1262	ug/kg							
Arochlor 1268	ug/kg							
Aldrin	ug/kg							
Hexachlorobenzene	ug/kg							
Chlordane	ug/kg							
BHC(alpha-)	ug/kg							
BHC(beta-)	ug/kg							
BHC(delta-)	ug/kg							
Lindane	ug/kg							
Dieldrin	ug/kg							
Endrin	ug/kg							
Endrin aldehyde	ug/kg							
Endrin ketone	ug/kg							
p,p'-DDT	ug/kg							
Methoxychlor	ug/kg							
p,p'-DDD	ug/kg							
p,p'-DDE	ug/kg							
Heptachlor Epoxide	ug/kg							
Heptachlor	ug/kg							
Endosulfan Sulfate	ug/kg							
Alpha Endosulfan	ug/kg							
Beta Endosulfan	ug/kg							
Toxaphene	ug/kg							
Cyanide	mg/kg							
Total Petroleum Hydrocarbons (CT ETPH)	mg/kg	<10	<10	20	11		55	
Acenaphthylene	ug/kg	<170	<170	<190	<180	<370		<190



**Table 6-3**  
**LABORATORY ANALYTICAL RESULTS FOR SOIL SAMPLES**  
**Former Mystic Oral School for the Deaf**

	Location ID	SB-032	SB-032	SB-033	SB-033	SB-034	SB-034	SB-035
	Sample ID	1273844	1273852	1273840	1273841	1273765	1273765	1273766
	Sample Date	01/28/2013	01/28/2013	01/28/2013	01/28/2013	01/24/2013	01/24/2013	01/24/2013
	Sample Time	11:38	14:42	11:20	11:22	11:33	11:33	11:38
	Sample Depth	2' - 4'	6' - 7.5'	2' - 4'	4' - 6'	0' - 2'	0' - 2'	0' - 2'
	Laboratory	CONT	CONT	CONT	CONT	CONT	CONT	CONT
	Lab. Number	13A0744-26	13A0744-34	13A0744-22	13A0744-23	13A0643-14	13A0643-14RE1	13A0643-12
Constituent	Units							
Benzo[a]anthracene	ug/kg	<170	<170	<190	<180	<370		<190
Benzo[b]fluoranthene	ug/kg	<170	<170	<190	<180	<370		<190
Benzo(a)pyrene	ug/kg	<170	<170	<190	<180	<370		<190
Benzo(g,h,i)perylene	ug/kg	<170	<170	<190	<180	<370		<190
Benzo(k)fluoranthene	ug/kg	<170	<170	<190	<180	<370		<190
Chrysene	ug/kg	<170	<170	<190	<180	<370		<190
Dibenz(a,h)anthracene	ug/kg	<170	<170	<190	<180	<370		<190
Fluoranthene	ug/kg	<170	<170	<190	<180	520		<190
Fluorene	ug/kg	<170	<170	<190	<180	<370		<190
Indeno(1,2,3-c,d)pyrene	ug/kg	<170	<170	<190	<180	<370		<190
Naphthalene	ug/kg	<1.9	<1.5	<3.7	<3.5	<4.0		<4.3
Naphthalene	ug/kg	<170	<170	<190	<180	<370		<190
Phenanthrene	ug/kg	<170	<170	<190	<180	370		<190
Pyrene	ug/kg	<170	<170	<190	<180	590		<190
1,2-Dichloropropane	ug/kg	<0.93	<0.77	<1.8	<1.7	<2.0		<2.2
Acenaphthene	ug/kg	<170	<170	<190	<180	<370		<190
Acetone	ug/kg	<46	<39	<92	<87	<99		<110
Acrylonitrile	ug/kg	<2.8	<2.3	<5.5	<5.2	<5.9		<6.5
Anthracene	ug/kg	<170	<170	<190	<180	<370		<190
2-Hexanone	ug/kg	<9.3	<7.7	<18	<17	<20		<22
Benzene	ug/kg	<0.93	<0.77	<1.8	<1.7	<2.0		<2.2
1,2,3-Trichlorobenzene	ug/kg	<0.93	<0.77	<1.8	<1.7	<2.0		<2.2
1,2,4-Trichlorobenzene	ug/kg	<0.93	<0.77	<1.8	<1.7	<2.0		<2.2
1,2,4-Trimethylbenzene	ug/kg	<0.93	<0.77	<1.8	<1.7	<2.0		<2.2
o-Dichlorobenzene	ug/kg	<0.93	<0.77	<1.8	<1.7	<2.0		<2.2
1,3,5-Trimethylbenzene	ug/kg	<0.93	<0.77	<1.8	<1.7	<2.0		<2.2
m-Dichlorobenzene	ug/kg	<0.93	<0.77	<1.8	<1.7	<2.0		<2.2
p-Dichlorobenzene	ug/kg	<0.93	<0.77	<1.8	<1.7	<2.0		<2.2



**Table 6-3**  
**LABORATORY ANALYTICAL RESULTS FOR SOIL SAMPLES**  
**Former Mystic Oral School for the Deaf**

	Location ID	SB-032	SB-032	SB-033	SB-033	SB-034	SB-034	SB-035
	Sample ID	1273844	1273852	1273840	1273841	1273765	1273765	1273766
	Sample Date	01/28/2013	01/28/2013	01/28/2013	01/28/2013	01/24/2013	01/24/2013	01/24/2013
	Sample Time	11:38	14:42	11:20	11:22	11:33	11:33	11:38
	Sample Depth	2' - 4'	6' - 7.5'	2' - 4'	4' - 6'	0' - 2'	0' - 2'	0' - 2'
	Laboratory	CONT	CONT	CONT	CONT	CONT	CONT	CONT
	Lab. Number	13A0744-26	13A0744-34	13A0744-22	13A0744-23	13A0643-14	13A0643-14RE1	13A0643-12
Constituent	Units							
Bromobenzene	ug/kg	<0.93	<0.77	<1.8	<1.7	<2.0		<2.2
Butyl Benzene	ug/kg	<0.93	<0.77	<1.8	<1.7	<2.0		<2.2
Chlorobenzene	ug/kg	<0.93	<0.77	<1.8	<1.7	<2.0		<2.2
Ethylbenzene	ug/kg	<0.93	<0.77	<1.8	<1.7	<2.0		<2.2
Isopropylbenzene (Cumene)	ug/kg	<0.93	<0.77	<1.8	<1.7	<2.0		<2.2
Propylbenzene	ug/kg	<0.93	<0.77	<1.8	<1.7	<2.0		<2.2
sec-Butylbenzene	ug/kg	<0.93	<0.77	<1.8	<1.7	<2.0		<2.2
tert-Butylbenzene	ug/kg	<0.93	<0.77	<1.8	<1.7	<2.0		<2.2
Hexachlorobutadiene	ug/kg	<0.93	<0.77	<1.8	<1.7	<2.0		<2.2
Methyl Ethyl ketone	ug/kg	<19	<15	<37	<35	<40		<43
trans-1,4-Dichlorobutene	ug/kg	<1.9	<1.5	<3.7	<3.5	<4.0		<4.3
Carbon Disulfide	ug/kg	<2.8	<2.3	<5.5	<5.2	<5.9		<6.5
Carbon Tetrachloride	ug/kg	<0.93	<0.77	<1.8	<1.7	<2.0		<2.2
4-Isopropyltoluene	ug/kg	<0.93	<0.77	<1.8	<1.7	<2.0		<2.2
1,1,1,2-Tetrachloroethane	ug/kg	<0.93	<0.77	<1.8	<1.7	<2.0		<2.2
1,1,1-Trichloroethane	ug/kg	<0.93	<0.77	<1.8	<1.7	<2.0		<2.2
1,1,2,2-Tetrachloroethane	ug/kg	<0.46	<0.39	<0.92	<0.87	<0.99		<1.1
1,1,2-Trichloroethane	ug/kg	<0.93	<0.77	<1.8	<1.7	<2.0		<2.2
1,1,2-Trichlorotrifluoroethane	ug/kg	<4.6	<3.9	<9.2	<8.7	<9.9		<11
1,1-Dichloroethane	ug/kg	<0.93	<0.77	<1.8	<1.7	<2.0		<2.2
Ethylene Dibromide	ug/kg	<0.46	<0.39	<0.92	<0.87	<0.99		<1.1
1,2-Dichloroethane	ug/kg	<0.93	<0.77	<1.8	<1.7	<2.0		<2.2
Chloroethane	ug/kg	<9.3	<7.7	<18	<17	<20		<22
Methyl tert-Butyl ether	ug/kg	<1.9	<1.5	<3.7	<3.5	<4.0		<4.3
1,1-Dichloroethylene	ug/kg	<1.9	<1.5	<3.7	<3.5	<4.0		<4.3
trans-1,2-Dichloroethylene	ug/kg	<0.93	<0.77	<1.8	<1.7	<2.0		<2.2
cis-1,2-Dichloroethylene	ug/kg	<0.93	<0.77	<1.8	<1.7	<2.0		<2.2
Vinyl Chloride	ug/kg	<4.6	<3.9	<9.2	<8.7	<9.9		<11



**Table 6-3**  
**LABORATORY ANALYTICAL RESULTS FOR SOIL SAMPLES**  
**Former Mystic Oral School for the Deaf**

	Location ID	SB-032	SB-032	SB-033	SB-033	SB-034	SB-034	SB-035
	Sample ID	1273844	1273852	1273840	1273841	1273765	1273765	1273766
	Sample Date	01/28/2013	01/28/2013	01/28/2013	01/28/2013	01/24/2013	01/24/2013	01/24/2013
	Sample Time	11:38	14:42	11:20	11:22	11:33	11:33	11:38
	Sample Depth	2' - 4'	6' - 7.5'	2' - 4'	4' - 6'	0' - 2'	0' - 2'	0' - 2'
	Laboratory	CONT	CONT	CONT	CONT	CONT	CONT	CONT
	Lab. Number	13A0744-26	13A0744-34	13A0744-22	13A0744-23	13A0643-14	13A0643-14RE1	13A0643-12
Constituent	Units							
Tetrachloroethylene	ug/kg	<0.93	<0.77	<1.8	<1.7	<2.0		<2.2
Tetrahydrofuran	ug/kg	<4.6	<3.9	<9.2	<8.7	<9.9		<11
Bromomethane	ug/kg	<4.6	<3.9	<9.2	<8.7	<9.9		<11
Bromodichloromethane	ug/kg	<0.93	<0.77	<1.8	<1.7	<2.0		<2.2
Chloromethane	ug/kg	<4.6	<3.9	<9.2	<8.7	<9.9		<11
Chlorodibromomethane	ug/kg	<0.46	<0.39	<0.92	<0.87	<0.99		<1.1
Methylene Dibromide	ug/kg	<0.93	<0.77	<1.8	<1.7	<2.0		<2.2
Methylene Chloride	ug/kg	<9.3	<7.7	<18	<17	<20		<22
Dichlorodifluoromethane	ug/kg	<9.3	<7.7	<18	<17	<20		<22
Bromoform	ug/kg	<0.93	<0.77	<1.8	<1.7	<2.0		<2.2
Chloroform	ug/kg	<1.9	<1.5	<3.7	<3.5	<4.0		<4.3
Trichlorofluoromethane	ug/kg	<4.6	<3.9	<9.2	<8.7	<9.9		<11
beta-Methylnaphthalene	ug/kg	<170	<170	<190	<180	<370		<190
Methyl Isobutyl ketone	ug/kg	<9.3	<7.7	<18	<17	<20		<22
1,2,3-Trichloropropane	ug/kg	<0.93	<0.77	<1.8	<1.7	<2.0		<2.2
1,2-Dibromo-3-Chloropropane	ug/kg	<0.93	<0.77	<1.8	<1.7	<2.0		<2.2
1,3-Dichloropropane	ug/kg	<0.46	<0.39	<0.92	<0.87	<0.99		<1.1
sec-Dichloropropane	ug/kg	<0.93	<0.77	<1.8	<1.7	<2.0		<2.2
1,1-Dichloropropene	ug/kg	<0.93	<0.77	<1.8	<1.7	<2.0		<2.2
trans-1,3-Dichloropropene	ug/kg	<0.46	<0.39	<0.92	<0.87	<0.99		<1.1
cis-1,3-Dichloropropene	ug/kg	<0.46	<0.39	<0.92	<0.87	<0.99		<1.1
Styrene	ug/kg	<0.93	<0.77	<1.8	<1.7	<2.0		<2.2
Toluene	ug/kg	<0.93	<0.77	<1.8	<1.7	<2.0		<2.2
o-Chlorotoluene	ug/kg	<0.93	<0.77	<1.8	<1.7	<2.0		<2.2
p-Chlorotoluene	ug/kg	<0.93	<0.77	<1.8	<1.7	<2.0		<2.2
Trichloroethylene	ug/kg	<0.93	<0.77	<1.8	<1.7	<2.0		<2.2
o-Xylene	ug/kg	<0.93	<0.77	<1.8	<1.7	<2.0		<2.2
Xylenes,m- & p-	ug/kg	<1.9	<1.5	<3.7	<3.5	<4.0		<4.3



**Table 6-3**  
**LABORATORY ANALYTICAL RESULTS FOR SOIL SAMPLES**  
**Former Mystic Oral School for the Deaf**

	Location ID	SB-035	SB-035	SB-035	SB-037	SB-038	SB-038	SB-039
	Sample ID	1273766	1273767	1273767	1273869	1273867	1273868	1273871
	Sample Date	01/24/2013	01/24/2013	01/24/2013	01/29/2013	01/29/2013	01/29/2013	01/30/2013
	Sample Time	11:38	11:38	11:38	15:05	14:37	14:37	14:11
	Sample Depth	0' - 2'	0' - 2'	0' - 2'	0' - 2'	0' - 2'	0' - 2'	0' - 2'
	Laboratory	CONT	CONT	CONT	CONT	CONT	CONT	CONT
	Lab. Number	13A0643-12RE1	13A0643-13	13A0643-13RE1	13A0745-09	13A0745-07	13A0745-08	13A0792-01
Constituent	Units							
Date PCBs Analyzed	-					02/04/2013	02/04/2013	
Date Metals Analyzed	-					02/02/2013	02/02/2013	
Date Organics Analyzed	-		01/29/2013		02/01/2013	02/01/2013	02/01/2013	02/05/2013
Date Pesticides/Herbicides Analyzed	-							
Date Physical Analyzed	-	01/31/2013		01/31/2013	02/05/2013	02/06/2013	02/06/2013	02/06/2013
Date Semivolatile Organics Analyzed	-		01/28/2013		02/04/2013	02/04/2013	02/04/2013	02/06/2013
Alachlor	ug/kg							
2,4,5-Trichlorophenoxyacetic acid	ug/kg							
2,4-Dichlorophenoxyacetic acid	ug/kg							
Dicamba	ug/kg							
Dalapon	ug/kg							
Silvex	ug/kg							
Arsenic	mg/kg					<2.8	<2.7	
Barium	mg/kg					42	35	
Cadmium	mg/kg					<0.28	<0.27	
Chromium, Total	mg/kg					9.6	7.1	
Copper	mg/kg					17	14	
Lead	mg/kg					76	52	
Mercury	mg/kg					<0.028	<0.026	
Nickel	mg/kg					6.9	5.5	
Selenium	mg/kg					<5.6	<5.3	
Silver	mg/kg					0.78	<0.53	
Zinc	mg/kg					25	19	
Arochlor 1016	ug/kg					<110	<100	
Arochlor 1221	ug/kg					<110	<100	
Arochlor 1232	ug/kg					<110	<100	
Arochlor 1242	ug/kg					<110	<100	
Arochlor 1248	ug/kg					<110	<100	



**Table 6-3**  
**LABORATORY ANALYTICAL RESULTS FOR SOIL SAMPLES**  
**Former Mystic Oral School for the Deaf**

	Location ID	SB-035	SB-035	SB-035	SB-037	SB-038	SB-038	SB-039
	Sample ID	1273766	1273767	1273767	1273869	1273867	1273868	1273871
	Sample Date	01/24/2013	01/24/2013	01/24/2013	01/29/2013	01/29/2013	01/29/2013	01/30/2013
	Sample Time	11:38	11:38	11:38	15:05	14:37	14:37	14:11
	Sample Depth	0' - 2'	0' - 2'	0' - 2'	0' - 2'	0' - 2'	0' - 2'	0' - 2'
	Laboratory	CONT	CONT	CONT	CONT	CONT	CONT	CONT
	Lab. Number	13A0643-12RE1	13A0643-13	13A0643-13RE1	13A0745-09	13A0745-07	13A0745-08	13A0792-01
Constituent	Units							
Arochlor 1254	ug/kg					<110	<100	
Arochlor 1260	ug/kg					<110	<100	
Arochlor 1262	ug/kg					<110	<100	
Arochlor 1268	ug/kg					<110	<100	
Aldrin	ug/kg							
Hexachlorobenzene	ug/kg							
Chlordane	ug/kg							
BHC(alpha-)	ug/kg							
BHC(beta-)	ug/kg							
BHC(delta-)	ug/kg							
Lindane	ug/kg							
Dieldrin	ug/kg							
Endrin	ug/kg							
Endrin aldehyde	ug/kg							
Endrin ketone	ug/kg							
p,p'-DDT	ug/kg							
Methoxychlor	ug/kg							
p,p'-DDD	ug/kg							
p,p'-DDE	ug/kg							
Heptachlor Epoxide	ug/kg							
Heptachlor	ug/kg							
Endosulfan Sulfate	ug/kg							
Alpha Endosulfan	ug/kg							
Beta Endosulfan	ug/kg							
Toxaphene	ug/kg							
Cyanide	mg/kg							
Total Petroleum Hydrocarbons (CT ETPH)	mg/kg	38		61	19	570	470	<11
Acenaphthylene	ug/kg		<190		<180	<190	<180	<180



**Table 6-3**  
**LABORATORY ANALYTICAL RESULTS FOR SOIL SAMPLES**  
**Former Mystic Oral School for the Deaf**

	Location ID	SB-035	SB-035	SB-035	SB-037	SB-038	SB-038	SB-039
	Sample ID	1273766	1273767	1273767	1273869	1273867	1273868	1273871
	Sample Date	01/24/2013	01/24/2013	01/24/2013	01/29/2013	01/29/2013	01/29/2013	01/30/2013
	Sample Time	11:38	11:38	11:38	15:05	14:37	14:37	14:11
	Sample Depth	0' - 2'	0' - 2'	0' - 2'	0' - 2'	0' - 2'	0' - 2'	0' - 2'
	Laboratory	CONT	CONT	CONT	CONT	CONT	CONT	CONT
	Lab. Number	13A0643-12RE1	13A0643-13	13A0643-13RE1	13A0745-09	13A0745-07	13A0745-08	13A0792-01
Constituent	Units							
Benzo[a]anthracene	ug/kg		<190		<180	<190	<180	<180
Benzo[b]fluoranthene	ug/kg		<190		<180	<190	<180	<180
Benzo(a)pyrene	ug/kg		<190		<180	<190	<180	<180
Benzo(g,h,i)perylene	ug/kg		<190		<180	<190	<180	<180
Benzo(k)fluoranthene	ug/kg		<190		<180	<190	<180	<180
Chrysene	ug/kg		<190		<180	<190	<180	<180
Dibenz(a,h)anthracene	ug/kg		<190		<180	<190	<180	<180
Fluoranthene	ug/kg		<190		<180	<190	<180	<180
Fluorene	ug/kg		<190		<180	<190	<180	<180
Indeno(1,2,3-c,d)pyrene	ug/kg		<190		<180	<190	<180	<180
Naphthalene	ug/kg		<4.5		<2.0	<2.9	<2.0	<2.0
Naphthalene	ug/kg		<190		<180	270	<180	<180
Phenanthrene	ug/kg		<190		<180	250	<180	<180
Pyrene	ug/kg		210		<180	<190	<180	<180
1,2-Dichloropropane	ug/kg		<2.3		<1.0	<1.4	<1.0	<1.0
Acenaphthene	ug/kg		<190		<180	<190	<180	<180
Acetone	ug/kg		<110		<51	<72	<51	<51
Acrylonitrile	ug/kg		<6.8		<3.0	<4.3	<3.1	<3.0
Anthracene	ug/kg		<190		<180	<190	<180	<180
2-Hexanone	ug/kg		<23		<10	<14	<10	<10
Benzene	ug/kg		<2.3		<1.0	<1.4	<1.0	<1.0
1,2,3-Trichlorobenzene	ug/kg		<2.3		<1.0	<1.4	<1.0	<1.0
1,2,4-Trichlorobenzene	ug/kg		<2.3		<1.0	<1.4	<1.0	<1.0
1,2,4-Trimethylbenzene	ug/kg		<2.3		<1.0	<1.4	<1.0	<1.0
o-Dichlorobenzene	ug/kg		<2.3		<1.0	<1.4	<1.0	<1.0
1,3,5-Trimethylbenzene	ug/kg		<2.3		<1.0	<1.4	<1.0	<1.0
m-Dichlorobenzene	ug/kg		<2.3		<1.0	<1.4	<1.0	<1.0
p-Dichlorobenzene	ug/kg		<2.3		<1.0	<1.4	<1.0	<1.0



**Table 6-3**  
**LABORATORY ANALYTICAL RESULTS FOR SOIL SAMPLES**  
**Former Mystic Oral School for the Deaf**

	Location ID	SB-035	SB-035	SB-035	SB-037	SB-038	SB-038	SB-039
	Sample ID	1273766	1273767	1273767	1273869	1273867	1273868	1273871
	Sample Date	01/24/2013	01/24/2013	01/24/2013	01/29/2013	01/29/2013	01/29/2013	01/30/2013
	Sample Time	11:38	11:38	11:38	15:05	14:37	14:37	14:11
	Sample Depth	0' - 2'	0' - 2'	0' - 2'	0' - 2'	0' - 2'	0' - 2'	0' - 2'
	Laboratory	CONT	CONT	CONT	CONT	CONT	CONT	CONT
	Lab. Number	13A0643-12RE1	13A0643-13	13A0643-13RE1	13A0745-09	13A0745-07	13A0745-08	13A0792-01
Constituent	Units							
Bromobenzene	ug/kg		<2.3		<1.0	<1.4	<1.0	<1.0
Butyl Benzene	ug/kg		<2.3		<1.0	<1.4	<1.0	<1.0
Chlorobenzene	ug/kg		<2.3		<1.0	<1.4	<1.0	<1.0
Ethylbenzene	ug/kg		<2.3		<1.0	<1.4	<1.0	<1.0
Isopropylbenzene (Cumene)	ug/kg		<2.3		<1.0	<1.4	<1.0	<1.0
Propylbenzene	ug/kg		<2.3		<1.0	<1.4	<1.0	<1.0
sec-Butylbenzene	ug/kg		<2.3		<1.0	<1.4	<1.0	<1.0
tert-Butylbenzene	ug/kg		<2.3		<1.0	<1.4	<1.0	<1.0
Hexachlorobutadiene	ug/kg		<2.3		<1.0	<1.4	<1.0	<1.0
Methyl Ethyl ketone	ug/kg		<45		<20	<29	<20	<20
trans-1,4-Dichlorobutene	ug/kg		<4.5		<2.0	<2.9	<2.0	<2.0
Carbon Disulfide	ug/kg		<6.8		<3.0	<4.3	<3.1	<3.0
Carbon Tetrachloride	ug/kg		<2.3		<1.0	<1.4	<1.0	<1.0
4-Isopropyltoluene	ug/kg		<2.3		<1.0	<1.4	<1.0	<1.0
1,1,1,2-Tetrachloroethane	ug/kg		<2.3		<1.0	<1.4	<1.0	<1.0
1,1,1-Trichloroethane	ug/kg		<2.3		<1.0	<1.4	<1.0	<1.0
1,1,2,2-Tetrachloroethane	ug/kg		<1.1		<0.51	<0.72	<0.51	<0.51
1,1,2-Trichloroethane	ug/kg		<2.3		<1.0	<1.4	<1.0	<1.0
1,1,2-Trichlorotrifluoroethane	ug/kg		<11		<5.1	<7.2	<5.1	<5.1
1,1-Dichloroethane	ug/kg		<2.3		<1.0	<1.4	<1.0	<1.0
Ethylene Dibromide	ug/kg		<1.1		<0.51	<0.72	<0.51	<0.51
1,2-Dichloroethane	ug/kg		<2.3		<1.0	<1.4	<1.0	<1.0
Chloroethane	ug/kg		<23		<10	<14	<10	<10
Methyl tert-Butyl ether	ug/kg		<4.5		<2.0	<2.9	<2.0	<2.0
1,1-Dichloroethylene	ug/kg		<4.5		<2.0	<2.9	<2.0	<2.0
trans-1,2-Dichloroethylene	ug/kg		<2.3		<1.0	<1.4	<1.0	<1.0
cis-1,2-Dichloroethylene	ug/kg		<2.3		<1.0	<1.4	<1.0	<1.0
Vinyl Chloride	ug/kg		<11		<5.1	<7.2	<5.1	<5.1



**Table 6-3**  
**LABORATORY ANALYTICAL RESULTS FOR SOIL SAMPLES**  
**Former Mystic Oral School for the Deaf**

	Location ID	SB-035	SB-035	SB-035	SB-037	SB-038	SB-038	SB-039
	Sample ID	1273766	1273767	1273767	1273869	1273867	1273868	1273871
	Sample Date	01/24/2013	01/24/2013	01/24/2013	01/29/2013	01/29/2013	01/29/2013	01/30/2013
	Sample Time	11:38	11:38	11:38	15:05	14:37	14:37	14:11
	Sample Depth	0' - 2'	0' - 2'	0' - 2'	0' - 2'	0' - 2'	0' - 2'	0' - 2'
	Laboratory	CONT	CONT	CONT	CONT	CONT	CONT	CONT
	Lab. Number	13A0643-12RE1	13A0643-13	13A0643-13RE1	13A0745-09	13A0745-07	13A0745-08	13A0792-01
Constituent	Units							
Tetrachloroethylene	ug/kg		<2.3		<1.0	<1.4	<1.0	<1.0
Tetrahydrofuran	ug/kg		<11		<5.1	<7.2	<5.1	<5.1
Bromomethane	ug/kg		<11		<5.1	<7.2	<5.1	<5.1
Bromodichloromethane	ug/kg		<2.3		<1.0	<1.4	<1.0	<1.0
Chloromethane	ug/kg		<11		<5.1	<7.2	<5.1	<5.1
Chlorodibromomethane	ug/kg		<1.1		<0.51	<0.72	<0.51	<0.51
Methylene Dibromide	ug/kg		<2.3		<1.0	<1.4	<1.0	<1.0
Methylene Chloride	ug/kg		<23		<10	<14	<10	<10
Dichlorodifluoromethane	ug/kg		<23		<10	<14	<10	<10
Bromoform	ug/kg		<2.3		<1.0	<1.4	<1.0	<1.0
Chloroform	ug/kg		<4.5		<2.0	<2.9	<2.0	<2.0
Trichlorofluoromethane	ug/kg		<11		<5.1	<7.2	<5.1	<5.1
beta-Methylnaphthalene	ug/kg		<190		<180	<190	<180	<180
Methyl Isobutyl ketone	ug/kg		<23		<10	<14	<10	<10
1,2,3-Trichloropropane	ug/kg		<2.3		<1.0	<1.4	<1.0	<1.0
1,2-Dibromo-3-Chloropropane	ug/kg		<2.3		<1.0	<1.4	<1.0	<1.0
1,3-Dichloropropane	ug/kg		<1.1		<0.51	<0.72	<0.51	<0.51
sec-Dichloropropane	ug/kg		<2.3		<1.0	<1.4	<1.0	<1.0
1,1-Dichloropropene	ug/kg		<2.3		<1.0	<1.4	<1.0	<1.0
trans-1,3-Dichloropropene	ug/kg		<1.1		<0.51	<0.72	<0.51	<0.51
cis-1,3-Dichloropropene	ug/kg		<1.1		<0.51	<0.72	<0.51	<0.51
Styrene	ug/kg		<2.3		<1.0	<1.4	<1.0	<1.0
Toluene	ug/kg		<2.3		<1.0	1.6	<1.0	<1.0
o-Chlorotoluene	ug/kg		<2.3		<1.0	<1.4	<1.0	<1.0
p-Chlorotoluene	ug/kg		<2.3		<1.0	<1.4	<1.0	<1.0
Trichloroethylene	ug/kg		<2.3		<1.0	<1.4	<1.0	<1.0
o-Xylene	ug/kg		<2.3		<1.0	<1.4	<1.0	<1.0
Xylenes,m- & p-	ug/kg		<4.5		<2.0	<2.9	<2.0	<2.0



**Table 6-3**  
**LABORATORY ANALYTICAL RESULTS FOR SOIL SAMPLES**  
**Former Mystic Oral School for the Deaf**

	Location ID	SB-040	SB-040	SB-040	SB-041	SB-041	SB-042	SB-042
	Sample ID	1273811	1273811	1273812	1273813	1273814	1273824	1273828
	Sample Date	01/25/2013	01/25/2013	01/25/2013	01/25/2013	01/25/2013	01/25/2013	01/25/2013
	Sample Time	13:20	13:20	13:25	13:45	13:50	15:00	15:00
	Sample Depth	0.0' - 0.5'	0.0' - 0.5'	0.5' - 2'	0.0' - 0.5'	0.5' - 2'	0.0' - 2.5'	0' - 2.5'
	Laboratory	CONT	CONT	CONT	CONT	CONT	CONT	CONT
	Lab. Number	13A0687-09	13A0687-09RE1	13A0687-10	13A0687-11	13A0687-12	13A0687-22	13A0687-23
Constituent	Units							
Date PCBs Analyzed	-	01/31/2013		01/31/2013	01/31/2013	01/31/2013	01/31/2013	01/31/2013
Date Metals Analyzed	-	01/30/2013		01/30/2013	01/30/2013	01/30/2013	01/30/2013	01/30/2013
Date Organics Analyzed	-	01/30/2013		01/30/2013	01/30/2013	01/30/2013	01/31/2013	01/31/2013
Date Pesticides/Herbicides Analyzed	-	02/01/2013			02/01/2013		02/01/2013	02/01/2013
Date Physical Analyzed	-	01/31/2013		02/01/2013	02/01/2013	02/01/2013	02/01/2013	02/01/2013
Date Semivolatile Organics Analyzed	-	01/31/2013	01/31/2013	01/31/2013	01/31/2013	01/31/2013	01/31/2013	01/31/2013
Alachlor	ug/kg	<23			<22		<22	<22
2,4,5-Trichlorophenoxyacetic acid	ug/kg							
2,4-Dichlorophenoxyacetic acid	ug/kg							
Dicamba	ug/kg							
Dalapon	ug/kg							
Silvex	ug/kg							
Arsenic	mg/kg	<2.9		<2.8	<2.7	<2.8	<2.7	<2.7
Barium	mg/kg	38		41	51	45	41	41
Cadmium	mg/kg	<0.29		<0.28	<0.27	<0.28	<0.27	<0.27
Chromium, Total	mg/kg	10		11	14	14	9.5	7.9
Copper	mg/kg	14		10	9.2	9.8	9.8	11
Lead	mg/kg	32		18	24	15	7.3	6.9
Mercury	mg/kg	0.13		0.036	0.040	0.055	<0.028	<0.028
Nickel	mg/kg	6.3		6.3	7.4	7.7	5.6	4.0
Selenium	mg/kg	<5.7		<5.7	<5.4	<5.5	<5.4	<5.5
Silver	mg/kg	<0.57		<0.57	<0.54	<0.55	<0.54	<0.55
Zinc	mg/kg	37		36	50	42	31	38
Arochlor 1016	ug/kg	<120		<120	<110	<110	<110	<110
Arochlor 1221	ug/kg	<120		<120	<110	<110	<110	<110
Arochlor 1232	ug/kg	<120		<120	<110	<110	<110	<110
Arochlor 1242	ug/kg	<120		<120	<110	<110	<110	<110
Arochlor 1248	ug/kg	<120		<120	<110	<110	<110	<110



**Table 6-3**  
**LABORATORY ANALYTICAL RESULTS FOR SOIL SAMPLES**  
**Former Mystic Oral School for the Deaf**

	Location ID	SB-040	SB-040	SB-040	SB-041	SB-041	SB-042	SB-042
	Sample ID	1273811	1273811	1273812	1273813	1273814	1273824	1273828
	Sample Date	01/25/2013	01/25/2013	01/25/2013	01/25/2013	01/25/2013	01/25/2013	01/25/2013
	Sample Time	13:20	13:20	13:25	13:45	13:50	15:00	15:00
	Sample Depth	0.0' - 0.5'	0.0' - 0.5'	0.5' - 2'	0.0' - 0.5'	0.5' - 2'	0.0' - 2.5'	0' - 2.5'
	Laboratory	CONT	CONT	CONT	CONT	CONT	CONT	CONT
	Lab. Number	13A0687-09	13A0687-09RE1	13A0687-10	13A0687-11	13A0687-12	13A0687-22	13A0687-23
Constituent	Units							
Arochlor 1254	ug/kg	<120		<120	<110	<110	<110	<110
Arochlor 1260	ug/kg	<120		<120	<110	<110	<110	<110
Arochlor 1262	ug/kg	<120		<120	<110	<110	<110	<110
Arochlor 1268	ug/kg	<120		<120	<110	<110	<110	<110
Aldrin	ug/kg	<5.8			<5.6		<5.6	<5.6
Hexachlorobenzene	ug/kg	<7.0			<6.7		<6.7	<6.7
Chlordane	ug/kg	<23			<22		<22	<22
BHC(alpha-)	ug/kg	<5.8			<5.6		<5.6	<5.6
BHC(beta-)	ug/kg	<5.8			<5.6		<5.6	<5.6
BHC(delta-)	ug/kg	<5.8			<5.6		<5.6	<5.6
Lindane	ug/kg	<2.3			<2.2		<2.2	<2.2
Dieldrin	ug/kg	<4.7			<4.5		<4.4	<4.5
Endrin	ug/kg	<9.4			<9.0		<8.9	<9.0
Endrin aldehyde	ug/kg	<9.4			<9.0		<8.9	<9.0
Endrin ketone	ug/kg	<9.4			<9.0		<8.9	<9.0
p,p'-DDT	ug/kg	<4.7			<4.5		<4.4	<4.5
Methoxychlor	ug/kg	<58			<56		<56	<56
p,p'-DDD	ug/kg	<4.7			<4.5		<4.4	<4.5
p,p'-DDE	ug/kg	<4.7			<4.5		<4.4	<4.5
Heptachlor Epoxide	ug/kg	<5.8			<5.6		<5.6	<5.6
Heptachlor	ug/kg	<5.8			<5.6		<5.6	<5.6
Endosulfan Sulfate	ug/kg	<9.4			<9.0		<8.9	<9.0
Alpha Endosulfan	ug/kg	<5.8			<5.6		<5.6	<5.6
Beta Endosulfan	ug/kg	<9.4			<9.0		<8.9	<9.0
Toxaphene	ug/kg	<120			<110		<110	<110
Cyanide	mg/kg							
Total Petroleum Hydrocarbons (CT ETPH)	mg/kg	100		240	150	110	110	96
Acenaphthylene	ug/kg	770		<390	<380	250	400	200



**Table 6-3**  
**LABORATORY ANALYTICAL RESULTS FOR SOIL SAMPLES**  
**Former Mystic Oral School for the Deaf**

	Location ID	SB-040	SB-040	SB-040	SB-041	SB-041	SB-042	SB-042
	Sample ID	1273811	1273811	1273812	1273813	1273814	1273824	1273828
	Sample Date	01/25/2013	01/25/2013	01/25/2013	01/25/2013	01/25/2013	01/25/2013	01/25/2013
	Sample Time	13:20	13:20	13:25	13:45	13:50	15:00	15:00
	Sample Depth	0.0' - 0.5'	0.0' - 0.5'	0.5' - 2'	0.0' - 0.5'	0.5' - 2'	0.0' - 2.5'	0' - 2.5'
	Laboratory	CONT	CONT	CONT	CONT	CONT	CONT	CONT
	Lab. Number	13A0687-09	13A0687-09RE1	13A0687-10	13A0687-11	13A0687-12	13A0687-22	13A0687-23
Constituent	Units							
Benzo[a]anthracene	ug/kg	5300	5300	1400	1600	860	1400	440
Benzo[b]fluoranthene	ug/kg	4400		2500	2000	940	1800	550
Benzo(a)pyrene	ug/kg	3600		1700	1500	770	1600	520
Benzo(g,h,i)perylene	ug/kg	1500		600	560	460	1300	430
Benzo(k)fluoranthene	ug/kg	1600		820	670	330	630	240
Chrysene	ug/kg	4400		1600	1800	960	1600	500
Dibenz(a,h)anthracene	ug/kg	420		<390	<380	<190	<380	<190
Fluoranthene	ug/kg		11000	2600	3000	1600	2500	850
Fluorene	ug/kg	620		<390	<380	<190	<380	<190
Indeno(1,2,3-c,d)pyrene	ug/kg	1800		890	780	510	1300	460
Naphthalene	ug/kg	<6.6		<7.2	<8.1	<4.2	<4.1	<6.2
Naphthalene	ug/kg	<200		<390	<380	<190	<380	<190
Phenanthrene	ug/kg		5700	1200	1400	1200	1700	520
Pyrene	ug/kg		10000	1900	2600	1700	2700	860
1,2-Dichloropropane	ug/kg	<3.3		<3.6	<4.1	<2.1	<2.1	<3.1
Acenaphthene	ug/kg	290		<390	<380	<190	<380	<190
Acetone	ug/kg	<160		<180	<200	<110	<100	<150
Acrylonitrile	ug/kg	<9.8		<11	<12	<6.3	<6.2	<9.2
Anthracene	ug/kg	1700		<390	<380	240	<380	<190
2-Hexanone	ug/kg	<33		<36	<41	<21	<21	<31
Benzene	ug/kg	<3.3		<3.6	<4.1	<2.1	<2.1	<3.1
1,2,3-Trichlorobenzene	ug/kg	<3.3		<3.6	<4.1	<2.1	<2.1	<3.1
1,2,4-Trichlorobenzene	ug/kg	<3.3		<3.6	<4.1	<2.1	<2.1	<3.1
1,2,4-Trimethylbenzene	ug/kg	<3.3		<3.6	<4.1	<2.1	<2.1	<3.1
o-Dichlorobenzene	ug/kg	<3.3		<3.6	<4.1	<2.1	<2.1	<3.1
1,3,5-Trimethylbenzene	ug/kg	<3.3		<3.6	<4.1	<2.1	<2.1	<3.1
m-Dichlorobenzene	ug/kg	<3.3		<3.6	<4.1	<2.1	<2.1	<3.1
p-Dichlorobenzene	ug/kg	<3.3		<3.6	<4.1	<2.1	<2.1	<3.1



**Table 6-3**  
**LABORATORY ANALYTICAL RESULTS FOR SOIL SAMPLES**  
**Former Mystic Oral School for the Deaf**

	Location ID	SB-040	SB-040	SB-040	SB-041	SB-041	SB-042	SB-042
	Sample ID	1273811	1273811	1273812	1273813	1273814	1273824	1273828
	Sample Date	01/25/2013	01/25/2013	01/25/2013	01/25/2013	01/25/2013	01/25/2013	01/25/2013
	Sample Time	13:20	13:20	13:25	13:45	13:50	15:00	15:00
	Sample Depth	0.0' - 0.5'	0.0' - 0.5'	0.5' - 2'	0.0' - 0.5'	0.5' - 2'	0.0' - 2.5'	0' - 2.5'
	Laboratory	CONT	CONT	CONT	CONT	CONT	CONT	CONT
	Lab. Number	13A0687-09	13A0687-09RE1	13A0687-10	13A0687-11	13A0687-12	13A0687-22	13A0687-23
Constituent	Units							
Bromobenzene	ug/kg	<3.3		<3.6	<4.1	<2.1	<2.1	<3.1
Butyl Benzene	ug/kg	<3.3		<3.6	<4.1	<2.1	<2.1	<3.1
Chlorobenzene	ug/kg	<3.3		<3.6	<4.1	<2.1	<2.1	<3.1
Ethylbenzene	ug/kg	<3.3		<3.6	<4.1	<2.1	<2.1	<3.1
Isopropylbenzene (Cumene)	ug/kg	<3.3		<3.6	<4.1	<2.1	<2.1	<3.1
Propylbenzene	ug/kg	<3.3		<3.6	<4.1	<2.1	<2.1	<3.1
sec-Butylbenzene	ug/kg	<3.3		<3.6	<4.1	<2.1	<2.1	<3.1
tert-Butylbenzene	ug/kg	<3.3		<3.6	<4.1	<2.1	<2.1	<3.1
Hexachlorobutadiene	ug/kg	<3.3		<3.6	<4.1	<2.1	<2.1	<3.1
Methyl Ethyl ketone	ug/kg	<66		<72	<81	<42	<41	<62
trans-1,4-Dichlorobutene	ug/kg	<6.6		<7.2	<8.1	<4.2	<4.1	<6.2
Carbon Disulfide	ug/kg	<9.8		<11	<12	<6.3	<6.2	<9.2
Carbon Tetrachloride	ug/kg	<3.3		<3.6	<4.1	<2.1	<2.1	<3.1
4-Isopropyltoluene	ug/kg	<3.3		<3.6	<4.1	<2.1	<2.1	<3.1
1,1,1,2-Tetrachloroethane	ug/kg	<3.3		<3.6	<4.1	<2.1	<2.1	<3.1
1,1,1-Trichloroethane	ug/kg	<3.3		<3.6	<4.1	<2.1	<2.1	<3.1
1,1,2,2-Tetrachloroethane	ug/kg	<1.6		<1.8	<2.0	<1.1	<1.0	<1.5
1,1,2-Trichloroethane	ug/kg	<3.3		<3.6	<4.1	<2.1	<2.1	<3.1
1,1,2-Trichlorotrifluoroethane	ug/kg	<16		<18	<20	<11	<10	<15
1,1-Dichloroethane	ug/kg	<3.3		<3.6	<4.1	<2.1	<2.1	<3.1
Ethylene Dibromide	ug/kg	<1.6		<1.8	<2.0	<1.1	<1.0	<1.5
1,2-Dichloroethane	ug/kg	<3.3		<3.6	<4.1	<2.1	<2.1	<3.1
Chloroethane	ug/kg	<33		<36	<41	<21	<21	<31
Methyl tert-Butyl ether	ug/kg	<6.6		<7.2	<8.1	<4.2	<4.1	<6.2
1,1-Dichloroethylene	ug/kg	<6.6		<7.2	<8.1	<4.2	<4.1	<6.2
trans-1,2-Dichloroethylene	ug/kg	<3.3		<3.6	<4.1	<2.1	<2.1	<3.1
cis-1,2-Dichloroethylene	ug/kg	<3.3		<3.6	<4.1	<2.1	<2.1	<3.1
Vinyl Chloride	ug/kg	<16		<18	<20	<11	<10	<15



**Table 6-3**  
**LABORATORY ANALYTICAL RESULTS FOR SOIL SAMPLES**  
**Former Mystic Oral School for the Deaf**

	Location ID	SB-040	SB-040	SB-040	SB-041	SB-041	SB-042	SB-042
	Sample ID	1273811	1273811	1273812	1273813	1273814	1273824	1273828
	Sample Date	01/25/2013	01/25/2013	01/25/2013	01/25/2013	01/25/2013	01/25/2013	01/25/2013
	Sample Time	13:20	13:20	13:25	13:45	13:50	15:00	15:00
	Sample Depth	0.0' - 0.5'	0.0' - 0.5'	0.5' - 2'	0.0' - 0.5'	0.5' - 2'	0.0' - 2.5'	0' - 2.5'
	Laboratory	CONT	CONT	CONT	CONT	CONT	CONT	CONT
	Lab. Number	13A0687-09	13A0687-09RE1	13A0687-10	13A0687-11	13A0687-12	13A0687-22	13A0687-23
Constituent	Units							
Tetrachloroethylene	ug/kg	<3.3		<3.6	<4.1	<2.1	<2.1	<3.1
Tetrahydrofuran	ug/kg	<16		<18	<20	<11	<10	<15
Bromomethane	ug/kg	<16		<18	<20	<11	<10	<15
Bromodichloromethane	ug/kg	<3.3		<3.6	<4.1	<2.1	<2.1	<3.1
Chloromethane	ug/kg	<16		<18	<20	<11	<10	<15
Chlorodibromomethane	ug/kg	<1.6		<1.8	<2.0	<1.1	<1.0	<1.5
Methylene Dibromide	ug/kg	<3.3		<3.6	<4.1	<2.1	<2.1	<3.1
Methylene Chloride	ug/kg	<33		<36	<41	<21	<21	<31
Dichlorodifluoromethane	ug/kg	<33		<36	<41	<21	<21	<31
Bromoform	ug/kg	<3.3		<3.6	<4.1	<2.1	<2.1	<3.1
Chloroform	ug/kg	<6.6		<7.2	<8.1	<4.2	<4.1	<6.2
Trichlorofluoromethane	ug/kg	<16		<18	<20	<11	<10	<15
beta-Methylnaphthalene	ug/kg	<200		<390	<380	<190	<380	<190
Methyl Isobutyl ketone	ug/kg	<33		<36	<41	<21	<21	<31
1,2,3-Trichloropropane	ug/kg	<3.3		<3.6	<4.1	<2.1	<2.1	<3.1
1,2-Dibromo-3-Chloropropane	ug/kg	<3.3		<3.6	<4.1	<2.1	<2.1	<3.1
1,3-Dichloropropane	ug/kg	<1.6		<1.8	<2.0	<1.1	<1.0	<1.5
sec-Dichloropropane	ug/kg	<3.3		<3.6	<4.1	<2.1	<2.1	<3.1
1,1-Dichloropropene	ug/kg	<3.3		<3.6	<4.1	<2.1	<2.1	<3.1
trans-1,3-Dichloropropene	ug/kg	<1.6		<1.8	<2.0	<1.1	<1.0	<1.5
cis-1,3-Dichloropropene	ug/kg	<1.6		<1.8	<2.0	<1.1	<1.0	<1.5
Styrene	ug/kg	<3.3		<3.6	<4.1	<2.1	<2.1	<3.1
Toluene	ug/kg	<3.3		<3.6	<4.1	<2.1	<2.1	<3.1
o-Chlorotoluene	ug/kg	<3.3		<3.6	<4.1	<2.1	<2.1	<3.1
p-Chlorotoluene	ug/kg	<3.3		<3.6	<4.1	<2.1	<2.1	<3.1
Trichloroethylene	ug/kg	<3.3		<3.6	<4.1	<2.1	<2.1	<3.1
o-Xylene	ug/kg	<3.3		<3.6	<4.1	<2.1	<2.1	<3.1
Xylenes,m- & p-	ug/kg	<6.6		<7.2	<8.1	<4.2	<4.1	<6.2



**Table 6-3**  
**LABORATORY ANALYTICAL RESULTS FOR SOIL SAMPLES**  
**Former Mystic Oral School for the Deaf**

	Location ID	SB-043	SB-043	SB-043	SB-045	SB-045	SB-048	SB-049
	Sample ID	1273815	1273816	1273819	1273858	1273860	1273825	1273826
	Sample Date	01/25/2013	01/25/2013	01/25/2013	01/28/2013	01/28/2013	01/25/2013	01/25/2013
	Sample Time	14:00	14:00	14:15	14:24	14:24	11:40	14:18
	Sample Depth	0' - 2'	0' - 2'	6' - 8'	0' - 2'	0' - 2'	0' - 2'	0' - 2'
	Laboratory	CONT	CONT	CONT	CONT	CONT	CONT	CONT
	Lab. Number	13A0687-13	13A0687-14	13A0687-17	13A0744-09	13A0744-37	13A0687-24	13A0687-25
Constituent	Units							
Date PCBs Analyzed	-	01/31/2013	01/31/2013	01/31/2013	02/04/2013	02/04/2013		
Date Metals Analyzed	-	01/30/2013	01/30/2013	01/30/2013				
Date Organics Analyzed	-	01/30/2013	01/30/2013	01/31/2013	02/01/2013	02/01/2013		
Date Pesticides/Herbicides Analyzed	-	01/31/2013	01/31/2013					
Date Physical Analyzed	-	02/01/2013	02/01/2013	02/01/2013	02/06/2013	02/06/2013	02/01/2013	02/01/2013
Date Semivolatile Organics Analyzed	-	02/01/2013	02/01/2013	01/31/2013	02/04/2013	02/04/2013	01/31/2013	01/31/2013
Alachlor	ug/kg	<22	<22					
2,4,5-Trichlorophenoxyacetic acid	ug/kg							
2,4-Dichlorophenoxyacetic acid	ug/kg							
Dicamba	ug/kg							
Dalapon	ug/kg							
Silvex	ug/kg							
Arsenic	mg/kg	<2.6	<2.6	<2.9				
Barium	mg/kg	34	34	34				
Cadmium	mg/kg	<0.26	<0.26	<0.29				
Chromium, Total	mg/kg	8.7	9.0	9.2				
Copper	mg/kg	8.4	7.8	6.2				
Lead	mg/kg	2.0	2.2	5.6				
Mercury	mg/kg	<0.027	<0.027	<0.030				
Nickel	mg/kg	4.8	5.0	5.8				
Selenium	mg/kg	<5.1	<5.3	<5.7				
Silver	mg/kg	<0.51	<0.53	<0.57				
Zinc	mg/kg	15	14	34				
Arochlor 1016	ug/kg	<110	<110	<120	<100	<110		
Arochlor 1221	ug/kg	<110	<110	<120	<100	<110		
Arochlor 1232	ug/kg	<110	<110	<120	<100	<110		
Arochlor 1242	ug/kg	<110	<110	<120	<100	<110		
Arochlor 1248	ug/kg	<110	<110	<120	<100	<110		



**Table 6-3**  
**LABORATORY ANALYTICAL RESULTS FOR SOIL SAMPLES**  
**Former Mystic Oral School for the Deaf**

	Location ID	SB-043	SB-043	SB-043	SB-045	SB-045	SB-048	SB-049
	Sample ID	1273815	1273816	1273819	1273858	1273860	1273825	1273826
	Sample Date	01/25/2013	01/25/2013	01/25/2013	01/28/2013	01/28/2013	01/25/2013	01/25/2013
	Sample Time	14:00	14:00	14:15	14:24	14:24	11:40	14:18
	Sample Depth	0' - 2'	0' - 2'	6' - 8'	0' - 2'	0' - 2'	0' - 2'	0' - 2'
	Laboratory	CONT	CONT	CONT	CONT	CONT	CONT	CONT
	Lab. Number	13A0687-13	13A0687-14	13A0687-17	13A0744-09	13A0744-37	13A0687-24	13A0687-25
Constituent	Units							
Arochlor 1254	ug/kg	<110	<110	<120	<100	<110		
Arochlor 1260	ug/kg	<110	<110	<120	<100	<110		
Arochlor 1262	ug/kg	<110	<110	<120	<100	<110		
Arochlor 1268	ug/kg	<110	<110	<120	<100	<110		
Aldrin	ug/kg	<5.4	<5.4					
Hexachlorobenzene	ug/kg	<6.5	<6.5					
Chlordane	ug/kg	<22	<22					
BHC(alpha-)	ug/kg	<5.4	<5.4					
BHC(beta-)	ug/kg	<5.4	<5.4					
BHC(delta-)	ug/kg	<5.4	<5.4					
Lindane	ug/kg	<2.2	<2.2					
Dieldrin	ug/kg	<4.3	<4.3					
Endrin	ug/kg	<8.7	<8.6					
Endrin aldehyde	ug/kg	<8.7	<8.6					
Endrin ketone	ug/kg	<8.7	<8.6					
p,p'-DDT	ug/kg	<4.3	<4.3					
Methoxychlor	ug/kg	<54	<54					
p,p'-DDD	ug/kg	<4.3	<4.3					
p,p'-DDE	ug/kg	<4.3	<4.3					
Heptachlor Epoxide	ug/kg	<5.4	<5.4					
Heptachlor	ug/kg	<5.4	<5.4					
Endosulfan Sulfate	ug/kg	<8.7	<8.6					
Alpha Endosulfan	ug/kg	<5.4	<5.4					
Beta Endosulfan	ug/kg	<8.7	<8.6					
Toxaphene	ug/kg	<110	<110					
Cyanide	mg/kg							
Total Petroleum Hydrocarbons (CT ETPH)	mg/kg	<11	13	27	23	14	24	20
Acenaphthylene	ug/kg	<180	<180	<400	<180	<180	<190	<190



**Table 6-3**  
**LABORATORY ANALYTICAL RESULTS FOR SOIL SAMPLES**  
**Former Mystic Oral School for the Deaf**

	Location ID	SB-043	SB-043	SB-043	SB-045	SB-045	SB-048	SB-049
	Sample ID	1273815	1273816	1273819	1273858	1273860	1273825	1273826
	Sample Date	01/25/2013	01/25/2013	01/25/2013	01/28/2013	01/28/2013	01/25/2013	01/25/2013
	Sample Time	14:00	14:00	14:15	14:24	14:24	11:40	14:18
	Sample Depth	0' - 2'	0' - 2'	6' - 8'	0' - 2'	0' - 2'	0' - 2'	0' - 2'
	Laboratory	CONT	CONT	CONT	CONT	CONT	CONT	CONT
	Lab. Number	13A0687-13	13A0687-14	13A0687-17	13A0744-09	13A0744-37	13A0687-24	13A0687-25
Constituent	Units							
Benzo[a]anthracene	ug/kg	<180	<180	<400	<180	<180	<190	<190
Benzo[b]fluoranthene	ug/kg	<180	<180	<400	<180	260	<190	<190
Benzo(a)pyrene	ug/kg	<180	<180	<400	<180	220	<190	<190
Benzo(g,h,i)perylene	ug/kg	<180	<180	<400	<180	<180	<190	<190
Benzo(k)fluoranthene	ug/kg	<180	<180	<400	<180	<180	<190	<190
Chrysene	ug/kg	<180	<180	<400	<180	250	<190	<190
Dibenz(a,h)anthracene	ug/kg	<180	<180	<400	<180	<180	<190	<190
Fluoranthene	ug/kg	<180	<180	<400	190	280	<190	<190
Fluorene	ug/kg	<180	<180	<400	<180	<180	<190	<190
Indeno(1,2,3-c,d)pyrene	ug/kg	<180	<180	<400	<180	270	<190	<190
Naphthalene	ug/kg	<6.4	<11	<4.1	<4.3	<2.1		
Naphthalene	ug/kg	<180	<180	<400	<180	<180	<190	<190
Phenanthrene	ug/kg	<180	<180	<400	<180	<180	<190	<190
Pyrene	ug/kg	<180	<180	<400	210	380	<190	<190
1,2-Dichloropropane	ug/kg	<3.2	<5.4	<2.1	<2.2	<1.1		
Acenaphthene	ug/kg	<180	<180	<400	<180	<180	<190	<190
Acetone	ug/kg	<160	<270	<100	<110	<53		
Acrylonitrile	ug/kg	<9.6	<16	<6.2	<6.5	<3.2		
Anthracene	ug/kg	<180	<180	<400	<180	<180	<190	<190
2-Hexanone	ug/kg	<32	<54	<21	<22	<11		
Benzene	ug/kg	<3.2	<5.4	<2.1	<2.2	<1.1		
1,2,3-Trichlorobenzene	ug/kg	<3.2	<5.4	<2.1	<2.2	<1.1		
1,2,4-Trichlorobenzene	ug/kg	<3.2	<5.4	<2.1	<2.2	<1.1		
1,2,4-Trimethylbenzene	ug/kg	<3.2	<5.4	<2.1	<2.2	<1.1		
o-Dichlorobenzene	ug/kg	<3.2	<5.4	<2.1	<2.2	<1.1		
1,3,5-Trimethylbenzene	ug/kg	<3.2	<5.4	<2.1	<2.2	<1.1		
m-Dichlorobenzene	ug/kg	<3.2	<5.4	<2.1	<2.2	<1.1		
p-Dichlorobenzene	ug/kg	<3.2	<5.4	<2.1	<2.2	<1.1		



**Table 6-3**  
**LABORATORY ANALYTICAL RESULTS FOR SOIL SAMPLES**  
**Former Mystic Oral School for the Deaf**

	Location ID	SB-043	SB-043	SB-043	SB-045	SB-045	SB-048	SB-049
	Sample ID	1273815	1273816	1273819	1273858	1273860	1273825	1273826
	Sample Date	01/25/2013	01/25/2013	01/25/2013	01/28/2013	01/28/2013	01/25/2013	01/25/2013
	Sample Time	14:00	14:00	14:15	14:24	14:24	11:40	14:18
	Sample Depth	0' - 2'	0' - 2'	6' - 8'	0' - 2'	0' - 2'	0' - 2'	0' - 2'
	Laboratory	CONT	CONT	CONT	CONT	CONT	CONT	CONT
	Lab. Number	13A0687-13	13A0687-14	13A0687-17	13A0744-09	13A0744-37	13A0687-24	13A0687-25
Constituent	Units							
Bromobenzene	ug/kg	<3.2	<5.4	<2.1	<2.2	<1.1		
Butyl Benzene	ug/kg	<3.2	<5.4	<2.1	<2.2	<1.1		
Chlorobenzene	ug/kg	<3.2	<5.4	<2.1	<2.2	<1.1		
Ethylbenzene	ug/kg	<3.2	<5.4	<2.1	<2.2	<1.1		
Isopropylbenzene (Cumene)	ug/kg	<3.2	<5.4	<2.1	<2.2	<1.1		
Propylbenzene	ug/kg	<3.2	<5.4	<2.1	<2.2	<1.1		
sec-Butylbenzene	ug/kg	<3.2	<5.4	<2.1	<2.2	<1.1		
tert-Butylbenzene	ug/kg	<3.2	<5.4	<2.1	<2.2	<1.1		
Hexachlorobutadiene	ug/kg	<3.2	<5.4	<2.1	<2.2	<1.1		
Methyl Ethyl ketone	ug/kg	<64	<110	<41	<43	<21		
trans-1,4-Dichlorobutene	ug/kg	<6.4	<11	<4.1	<4.3	<2.1		
Carbon Disulfide	ug/kg	<9.6	<16	<6.2	<6.5	<3.2		
Carbon Tetrachloride	ug/kg	<3.2	<5.4	<2.1	<2.2	<1.1		
4-Isopropyltoluene	ug/kg	<3.2	<5.4	<2.1	<2.2	<1.1		
1,1,1,2-Tetrachloroethane	ug/kg	<3.2	<5.4	<2.1	<2.2	<1.1		
1,1,1-Trichloroethane	ug/kg	<3.2	<5.4	<2.1	<2.2	<1.1		
1,1,2,2-Tetrachloroethane	ug/kg	<1.6	<2.7	<1.0	<1.1	<0.53		
1,1,2-Trichloroethane	ug/kg	<3.2	<5.4	<2.1	<2.2	<1.1		
1,1,2-Trichlorotrifluoroethane	ug/kg	<16	<27	<10	<11	<5.3		
1,1-Dichloroethane	ug/kg	<3.2	<5.4	<2.1	<2.2	<1.1		
Ethylene Dibromide	ug/kg	<1.6	<2.7	<1.0	<1.1	<0.53		
1,2-Dichloroethane	ug/kg	<3.2	<5.4	<2.1	<2.2	<1.1		
Chloroethane	ug/kg	<32	<54	<21	<22	<11		
Methyl tert-Butyl ether	ug/kg	<6.4	<11	<4.1	<4.3	<2.1		
1,1-Dichloroethylene	ug/kg	<6.4	<11	<4.1	<4.3	<2.1		
trans-1,2-Dichloroethylene	ug/kg	<3.2	<5.4	<2.1	<2.2	<1.1		
cis-1,2-Dichloroethylene	ug/kg	<3.2	<5.4	<2.1	<2.2	<1.1		
Vinyl Chloride	ug/kg	<16	<27	<10	<11	<5.3		



**Table 6-3**  
**LABORATORY ANALYTICAL RESULTS FOR SOIL SAMPLES**  
**Former Mystic Oral School for the Deaf**

	Location ID	SB-043	SB-043	SB-043	SB-045	SB-045	SB-048	SB-049
	Sample ID	1273815	1273816	1273819	1273858	1273860	1273825	1273826
	Sample Date	01/25/2013	01/25/2013	01/25/2013	01/28/2013	01/28/2013	01/25/2013	01/25/2013
	Sample Time	14:00	14:00	14:15	14:24	14:24	11:40	14:18
	Sample Depth	0' - 2'	0' - 2'	6' - 8'	0' - 2'	0' - 2'	0' - 2'	0' - 2'
	Laboratory	CONT	CONT	CONT	CONT	CONT	CONT	CONT
	Lab. Number	13A0687-13	13A0687-14	13A0687-17	13A0744-09	13A0744-37	13A0687-24	13A0687-25
Constituent	Units							
Tetrachloroethylene	ug/kg	<3.2	<5.4	<2.1	<2.2	<1.1		
Tetrahydrofuran	ug/kg	<16	<27	<10	<11	<5.3		
Bromomethane	ug/kg	<16	<27	<10	<11	<5.3		
Bromodichloromethane	ug/kg	<3.2	<5.4	<2.1	<2.2	<1.1		
Chloromethane	ug/kg	<16	<27	<10	<11	<5.3		
Chlorodibromomethane	ug/kg	<1.6	<2.7	<1.0	<1.1	<0.53		
Methylene Dibromide	ug/kg	<3.2	<5.4	<2.1	<2.2	<1.1		
Methylene Chloride	ug/kg	<32	<54	<21	<22	<11		
Dichlorodifluoromethane	ug/kg	<32	<54	<21	<22	<11		
Bromoform	ug/kg	<3.2	<5.4	<2.1	<2.2	<1.1		
Chloroform	ug/kg	<6.4	<11	<4.1	<4.3	<2.1		
Trichlorofluoromethane	ug/kg	<16	<27	<10	<11	<5.3		
beta-Methylnaphthalene	ug/kg	<180	<180	<400	<180	<180	<190	<190
Methyl Isobutyl ketone	ug/kg	<32	<54	<21	<22	<11		
1,2,3-Trichloropropane	ug/kg	<3.2	<5.4	<2.1	<2.2	<1.1		
1,2-Dibromo-3-Chloropropane	ug/kg	<3.2	<5.4	<2.1	<2.2	<1.1		
1,3-Dichloropropane	ug/kg	<1.6	<2.7	<1.0	<1.1	<0.53		
sec-Dichloropropane	ug/kg	<3.2	<5.4	<2.1	<2.2	<1.1		
1,1-Dichloropropene	ug/kg	<3.2	<5.4	<2.1	<2.2	<1.1		
trans-1,3-Dichloropropene	ug/kg	<1.6	<2.7	<1.0	<1.1	<0.53		
cis-1,3-Dichloropropene	ug/kg	<1.6	<2.7	<1.0	<1.1	<0.53		
Styrene	ug/kg	<3.2	<5.4	<2.1	<2.2	<1.1		
Toluene	ug/kg	<3.2	<5.4	<2.1	<2.2	<1.1		
o-Chlorotoluene	ug/kg	<3.2	<5.4	<2.1	<2.2	<1.1		
p-Chlorotoluene	ug/kg	<3.2	<5.4	<2.1	<2.2	<1.1		
Trichloroethylene	ug/kg	<3.2	<5.4	<2.1	<2.2	<1.1		
o-Xylene	ug/kg	<3.2	<5.4	<2.1	<2.2	<1.1		
Xylenes,m- & p-	ug/kg	<6.4	<11	<4.1	<4.3	<2.1		



**Table 6-3**  
**LABORATORY ANALYTICAL RESULTS FOR SOIL SAMPLES**  
**Former Mystic Oral School for the Deaf**

	Location ID	SB-050	SB-051	SB-052	SB-053	SB-054	SB-055	SB-056
	Sample ID	1273827	1273859	1273857	1273856	1273873	1273861	1273862
	Sample Date	01/25/2013	01/28/2013	01/28/2013	01/28/2013	01/30/2013	01/29/2013	01/29/2013
	Sample Time	15:10	15:20	13:20	12:00	14:21	10:30	11:05
	Sample Depth	0' - 2'	0' - 2'	0' - 2'	0' - 2'	0' - 2'	0' - 2'	0' - 2'
	Laboratory	CONT	CONT	CONT	CONT	CONT	CONT	CONT
	Lab. Number	13A0687-26	13A0744-10	13A0744-08	13A0744-07	13A0792-03	13A0745-01	13A0745-02
Constituent	Units							
Date PCBs Analyzed	-							
Date Metals Analyzed	-						02/02/2013	02/02/2013
Date Organics Analyzed	-		02/01/2013	02/01/2013	02/01/2013	02/05/2013	02/01/2013	02/01/2013
Date Pesticides/Herbicides Analyzed	-							
Date Physical Analyzed	-	02/01/2013	02/06/2013	02/06/2013	02/06/2013	02/06/2013	02/05/2013	
Date Semivolatile Organics Analyzed	-	01/31/2013	02/04/2013	02/04/2013	02/04/2013	02/06/2013	02/04/2013	02/04/2013
Alachlor	ug/kg							
2,4,5-Trichlorophenoxyacetic acid	ug/kg							
2,4-Dichlorophenoxyacetic acid	ug/kg							
Dicamba	ug/kg							
Dalapon	ug/kg							
Silvex	ug/kg							
Arsenic	mg/kg						<2.6	<2.6
Barium	mg/kg						31	89
Cadmium	mg/kg						<0.26	<0.26
Chromium, Total	mg/kg						21	24
Copper	mg/kg						32	19
Lead	mg/kg						5.8	9.4
Mercury	mg/kg						<0.026	<0.027
Nickel	mg/kg						14	16
Selenium	mg/kg						<5.1	<5.1
Silver	mg/kg						<0.51	<0.51
Zinc	mg/kg						26	26
Arochlor 1016	ug/kg							
Arochlor 1221	ug/kg							
Arochlor 1232	ug/kg							
Arochlor 1242	ug/kg							
Arochlor 1248	ug/kg							



**Table 6-3**  
**LABORATORY ANALYTICAL RESULTS FOR SOIL SAMPLES**  
**Former Mystic Oral School for the Deaf**

	Location ID	SB-050	SB-051	SB-052	SB-053	SB-054	SB-055	SB-056
	Sample ID	1273827	1273859	1273857	1273856	1273873	1273861	1273862
	Sample Date	01/25/2013	01/28/2013	01/28/2013	01/28/2013	01/30/2013	01/29/2013	01/29/2013
	Sample Time	15:10	15:20	13:20	12:00	14:21	10:30	11:05
	Sample Depth	0' - 2'	0' - 2'	0' - 2'	0' - 2'	0' - 2'	0' - 2'	0' - 2'
	Laboratory	CONT	CONT	CONT	CONT	CONT	CONT	CONT
	Lab. Number	13A0687-26	13A0744-10	13A0744-08	13A0744-07	13A0792-03	13A0745-01	13A0745-02
Constituent	Units							
Arochlor 1254	ug/kg							
Arochlor 1260	ug/kg							
Arochlor 1262	ug/kg							
Arochlor 1268	ug/kg							
Aldrin	ug/kg							
Hexachlorobenzene	ug/kg							
Chlordane	ug/kg							
BHC(alpha-)	ug/kg							
BHC(beta-)	ug/kg							
BHC(delta-)	ug/kg							
Lindane	ug/kg							
Dieldrin	ug/kg							
Endrin	ug/kg							
Endrin aldehyde	ug/kg							
Endrin ketone	ug/kg							
p,p'-DDT	ug/kg							
Methoxychlor	ug/kg							
p,p'-DDD	ug/kg							
p,p'-DDE	ug/kg							
Heptachlor Epoxide	ug/kg							
Heptachlor	ug/kg							
Endosulfan Sulfate	ug/kg							
Alpha Endosulfan	ug/kg							
Beta Endosulfan	ug/kg							
Toxaphene	ug/kg							
Cyanide	mg/kg							
Total Petroleum Hydrocarbons (CT ETPH)	mg/kg	43	15	<11	12	<11	<11	
Acenaphthylene	ug/kg	<200	<180	<180	<180	<190	<180	<180



**Table 6-3**  
**LABORATORY ANALYTICAL RESULTS FOR SOIL SAMPLES**  
**Former Mystic Oral School for the Deaf**

	Location ID	SB-050	SB-051	SB-052	SB-053	SB-054	SB-055	SB-056
	Sample ID	1273827	1273859	1273857	1273856	1273873	1273861	1273862
	Sample Date	01/25/2013	01/28/2013	01/28/2013	01/28/2013	01/30/2013	01/29/2013	01/29/2013
	Sample Time	15:10	15:20	13:20	12:00	14:21	10:30	11:05
	Sample Depth	0' - 2'	0' - 2'	0' - 2'	0' - 2'	0' - 2'	0' - 2'	0' - 2'
	Laboratory	CONT	CONT	CONT	CONT	CONT	CONT	CONT
	Lab. Number	13A0687-26	13A0744-10	13A0744-08	13A0744-07	13A0792-03	13A0745-01	13A0745-02
Constituent	Units							
Benzo[a]anthracene	ug/kg	<200	<180	<180	<180	<190	<180	<180
Benzo[b]fluoranthene	ug/kg	<200	<180	<180	<180	<190	<180	<180
Benzo(a)pyrene	ug/kg	<200	<180	<180	<180	<190	<180	<180
Benzo(g,h,i)perylene	ug/kg	<200	<180	<180	<180	<190	<180	<180
Benzo(k)fluoranthene	ug/kg	<200	<180	<180	<180	<190	<180	<180
Chrysene	ug/kg	<200	<180	<180	<180	<190	<180	<180
Dibenz(a,h)anthracene	ug/kg	<200	<180	<180	<180	<190	<180	<180
Fluoranthene	ug/kg	<200	<180	<180	<180	<190	<180	<180
Fluorene	ug/kg	<200	<180	<180	<180	<190	<180	<180
Indeno(1,2,3-c,d)pyrene	ug/kg	<200	<180	<180	<180	<190	<180	<180
Naphthalene	ug/kg		<4.5	<3.8	<3.7	<1.9	<3.8	<2.0
Naphthalene	ug/kg	<200	<180	<180	<180	<190	<180	<180
Phenanthrene	ug/kg	<200	<180	<180	<180	<190	<180	<180
Pyrene	ug/kg	<200	<180	<180	180	<190	<180	<180
1,2-Dichloropropane	ug/kg		<2.3	<1.9	<1.9	<0.93	<1.9	<1.0
Acenaphthene	ug/kg	<200	<180	<180	<180	<190	<180	<180
Acetone	ug/kg		<110	<95	<93	<47	<95	<51
Acrylonitrile	ug/kg		<6.8	<5.7	<5.6	<2.8	<5.7	<3.0
Anthracene	ug/kg	<200	<180	<180	<180	<190	<180	<180
2-Hexanone	ug/kg		<23	<19	<19	<9.3	<19	<10
Benzene	ug/kg		<2.3	<1.9	<1.9	<0.93	<1.9	<1.0
1,2,3-Trichlorobenzene	ug/kg		<2.3	<1.9	<1.9	<0.93	<1.9	<1.0
1,2,4-Trichlorobenzene	ug/kg		<2.3	<1.9	<1.9	<0.93	<1.9	<1.0
1,2,4-Trimethylbenzene	ug/kg		<2.3	<1.9	<1.9	<0.93	<1.9	<1.0
o-Dichlorobenzene	ug/kg		<2.3	<1.9	<1.9	<0.93	<1.9	<1.0
1,3,5-Trimethylbenzene	ug/kg		<2.3	<1.9	<1.9	<0.93	<1.9	<1.0
m-Dichlorobenzene	ug/kg		<2.3	<1.9	<1.9	<0.93	<1.9	<1.0
p-Dichlorobenzene	ug/kg		<2.3	<1.9	<1.9	<0.93	<1.9	<1.0



**Table 6-3**  
**LABORATORY ANALYTICAL RESULTS FOR SOIL SAMPLES**  
**Former Mystic Oral School for the Deaf**

	Location ID	SB-050	SB-051	SB-052	SB-053	SB-054	SB-055	SB-056
	Sample ID	1273827	1273859	1273857	1273856	1273873	1273861	1273862
	Sample Date	01/25/2013	01/28/2013	01/28/2013	01/28/2013	01/30/2013	01/29/2013	01/29/2013
	Sample Time	15:10	15:20	13:20	12:00	14:21	10:30	11:05
	Sample Depth	0' - 2'	0' - 2'	0' - 2'	0' - 2'	0' - 2'	0' - 2'	0' - 2'
	Laboratory	CONT	CONT	CONT	CONT	CONT	CONT	CONT
	Lab. Number	13A0687-26	13A0744-10	13A0744-08	13A0744-07	13A0792-03	13A0745-01	13A0745-02
Constituent	Units							
Bromobenzene	ug/kg		<2.3	<1.9	<1.9	<0.93	<1.9	<1.0
Butyl Benzene	ug/kg		<2.3	<1.9	<1.9	<0.93	<1.9	<1.0
Chlorobenzene	ug/kg		<2.3	<1.9	<1.9	<0.93	<1.9	<1.0
Ethylbenzene	ug/kg		<2.3	<1.9	<1.9	<0.93	<1.9	<1.0
Isopropylbenzene (Cumene)	ug/kg		<2.3	<1.9	<1.9	<0.93	<1.9	<1.0
Propylbenzene	ug/kg		<2.3	<1.9	<1.9	<0.93	<1.9	<1.0
sec-Butylbenzene	ug/kg		<2.3	<1.9	<1.9	<0.93	<1.9	<1.0
tert-Butylbenzene	ug/kg		<2.3	<1.9	<1.9	<0.93	<1.9	<1.0
Hexachlorobutadiene	ug/kg		<2.3	<1.9	<1.9	<0.93	<1.9	<1.0
Methyl Ethyl ketone	ug/kg		<45	<38	<37	<19	<38	<20
trans-1,4-Dichlorobutene	ug/kg		<4.5	<3.8	<3.7	<1.9	<3.8	<2.0
Carbon Disulfide	ug/kg		<6.8	<5.7	<5.6	<2.8	<5.7	<3.0
Carbon Tetrachloride	ug/kg		<2.3	<1.9	<1.9	<0.93	<1.9	<1.0
4-Isopropyltoluene	ug/kg		<2.3	<1.9	<1.9	<0.93	<1.9	<1.0
1,1,1,2-Tetrachloroethane	ug/kg		<2.3	<1.9	<1.9	<0.93	<1.9	<1.0
1,1,1-Trichloroethane	ug/kg		<2.3	<1.9	<1.9	<0.93	<1.9	<1.0
1,1,2,2-Tetrachloroethane	ug/kg		<1.1	<0.95	<0.93	<0.47	<0.95	<0.51
1,1,2-Trichloroethane	ug/kg		<2.3	<1.9	<1.9	<0.93	<1.9	<1.0
1,1,2-Trichlorotrifluoroethane	ug/kg		<11	<9.5	<9.3	<4.7	<9.5	<5.1
1,1-Dichloroethane	ug/kg		<2.3	<1.9	<1.9	<0.93	<1.9	<1.0
Ethylene Dibromide	ug/kg		<1.1	<0.95	<0.93	<0.47	<0.95	<0.51
1,2-Dichloroethane	ug/kg		<2.3	<1.9	<1.9	<0.93	<1.9	<1.0
Chloroethane	ug/kg		<23	<19	<19	<9.3	<19	<10
Methyl tert-Butyl ether	ug/kg		<4.5	<3.8	<3.7	<1.9	<3.8	<2.0
1,1-Dichloroethylene	ug/kg		<4.5	<3.8	<3.7	<1.9	<3.8	<2.0
trans-1,2-Dichloroethylene	ug/kg		<2.3	<1.9	<1.9	<0.93	<1.9	<1.0
cis-1,2-Dichloroethylene	ug/kg		<2.3	<1.9	<1.9	<0.93	<1.9	<1.0
Vinyl Chloride	ug/kg		<11	<9.5	<9.3	<4.7	<9.5	<5.1



**Table 6-3**  
**LABORATORY ANALYTICAL RESULTS FOR SOIL SAMPLES**  
**Former Mystic Oral School for the Deaf**

	Location ID	SB-050	SB-051	SB-052	SB-053	SB-054	SB-055	SB-056
	Sample ID	1273827	1273859	1273857	1273856	1273873	1273861	1273862
	Sample Date	01/25/2013	01/28/2013	01/28/2013	01/28/2013	01/30/2013	01/29/2013	01/29/2013
	Sample Time	15:10	15:20	13:20	12:00	14:21	10:30	11:05
	Sample Depth	0' - 2'	0' - 2'	0' - 2'	0' - 2'	0' - 2'	0' - 2'	0' - 2'
	Laboratory	CONT	CONT	CONT	CONT	CONT	CONT	CONT
	Lab. Number	13A0687-26	13A0744-10	13A0744-08	13A0744-07	13A0792-03	13A0745-01	13A0745-02
Constituent	Units							
Tetrachloroethylene	ug/kg		<2.3	<1.9	<1.9	<0.93	<1.9	<1.0
Tetrahydrofuran	ug/kg		<11	<9.5	<9.3	<4.7	<9.5	<5.1
Bromomethane	ug/kg		<11	<9.5	<9.3	<4.7	<9.5	<5.1
Bromodichloromethane	ug/kg		<2.3	<1.9	<1.9	<0.93	<1.9	<1.0
Chloromethane	ug/kg		<11	<9.5	<9.3	<4.7	<9.5	<5.1
Chlorodibromomethane	ug/kg		<1.1	<0.95	<0.93	<0.47	<0.95	<0.51
Methylene Dibromide	ug/kg		<2.3	<1.9	<1.9	<0.93	<1.9	<1.0
Methylene Chloride	ug/kg		<23	<19	<19	<9.3	<19	<10
Dichlorodifluoromethane	ug/kg		<23	<19	<19	<9.3	<19	<10
Bromoform	ug/kg		<2.3	<1.9	<1.9	<0.93	<1.9	<1.0
Chloroform	ug/kg		<4.5	<3.8	<3.7	<1.9	<3.8	<2.0
Trichlorofluoromethane	ug/kg		<11	<9.5	<9.3	<4.7	<9.5	<5.1
beta-Methylnaphthalene	ug/kg	<200	<180	<180	<180	<190	<180	<180
Methyl Isobutyl ketone	ug/kg		<23	<19	<19	<9.3	<19	<10
1,2,3-Trichloropropane	ug/kg		<2.3	<1.9	<1.9	<0.93	<1.9	<1.0
1,2-Dibromo-3-Chloropropane	ug/kg		<2.3	<1.9	<1.9	<0.93	<1.9	<1.0
1,3-Dichloropropane	ug/kg		<1.1	<0.95	<0.93	<0.47	<0.95	<0.51
sec-Dichloropropane	ug/kg		<2.3	<1.9	<1.9	<0.93	<1.9	<1.0
1,1-Dichloropropene	ug/kg		<2.3	<1.9	<1.9	<0.93	<1.9	<1.0
trans-1,3-Dichloropropene	ug/kg		<1.1	<0.95	<0.93	<0.47	<0.95	<0.51
cis-1,3-Dichloropropene	ug/kg		<1.1	<0.95	<0.93	<0.47	<0.95	<0.51
Styrene	ug/kg		<2.3	<1.9	<1.9	<0.93	<1.9	<1.0
Toluene	ug/kg		<2.3	<1.9	<1.9	<0.93	<1.9	<1.0
o-Chlorotoluene	ug/kg		<2.3	<1.9	<1.9	<0.93	<1.9	<1.0
p-Chlorotoluene	ug/kg		<2.3	<1.9	<1.9	<0.93	<1.9	<1.0
Trichloroethylene	ug/kg		<2.3	<1.9	<1.9	<0.93	<1.9	<1.0
o-Xylene	ug/kg		<2.3	<1.9	<1.9	<0.93	<1.9	<1.0
Xylenes,m- & p-	ug/kg		<4.5	<3.8	<3.7	<1.9	<3.8	<2.0



**Table 6-3**  
**LABORATORY ANALYTICAL RESULTS FOR SOIL SAMPLES**  
**Former Mystic Oral School for the Deaf**

	Location ID	SB-058	SB-059	SB-059	SB-061	SB-062	SB-062	SB-063
	Sample ID	1273870	1273854	1273855	1273853	1273846	1273849	1273835
	Sample Date	01/29/2013	01/28/2013	01/28/2013	01/28/2013	01/28/2013	01/28/2013	01/28/2013
	Sample Time	15:29	11:13	11:13	10:15	12:01	14:20	10:51
	Sample Depth	0' - 2'	0' - 2'	0' - 2'	0' - 1.8'	2' - 4'	8' - 10'	0' - 2'
	Laboratory	CONT	CONT	CONT	CONT	CONT	CONT	CONT
	Lab. Number	13A0745-10	13A0744-05	13A0744-06	13A0744-04	13A0744-28	13A0744-31	13A0744-17
Constituent	Units							
Date PCBs Analyzed	-							
Date Metals Analyzed	-	02/02/2013	02/02/2013	02/02/2013	02/01/2013	02/02/2013	02/02/2013	
Date Organics Analyzed	-	02/01/2013	02/01/2013	02/01/2013	01/31/2013	02/01/2013	02/01/2013	02/01/2013
Date Pesticides/Herbicides Analyzed	-							
Date Physical Analyzed	-	02/05/2013	02/06/2013	02/06/2013	02/06/2013	02/05/2013	02/06/2013	02/06/2013
Date Semivolatile Organics Analyzed	-	02/04/2013	02/04/2013	02/04/2013	02/04/2013	02/04/2013	02/04/2013	02/04/2013
Alachlor	ug/kg							
2,4,5-Trichlorophenoxyacetic acid	ug/kg							
2,4-Dichlorophenoxyacetic acid	ug/kg							
Dicamba	ug/kg							
Dalapon	ug/kg							
Silvex	ug/kg							
Arsenic	mg/kg	<3.1	<2.6	<2.6	<2.5	<2.5	<2.5	
Barium	mg/kg	93	31	50	33	14	120	
Cadmium	mg/kg	0.98	<0.26	<0.26	<0.25	<0.25	<0.25	
Chromium, Total	mg/kg	19	6.6	10	8.4	5.3	4.8	
Copper	mg/kg	260	5.6	5.8	5.5	5.9	3.1	
Lead	mg/kg	120	10	7.9	7.5	3.3	3.6	
Mercury	mg/kg	0.17	<0.026	<0.026	<0.026	<0.026	<0.027	
Nickel	mg/kg	8.5	3.5	6.9	4.5	2.8	2.0	
Selenium	mg/kg	<6.3	<5.3	<5.2	<5.0	<5.1	<4.9	
Silver	mg/kg	0.70	0.56	<0.52	<0.50	<0.51	0.57	
Zinc	mg/kg	280	26	26	18	11	40	
Arochlor 1016	ug/kg							
Arochlor 1221	ug/kg							
Arochlor 1232	ug/kg							
Arochlor 1242	ug/kg							
Arochlor 1248	ug/kg							



**Table 6-3**  
**LABORATORY ANALYTICAL RESULTS FOR SOIL SAMPLES**  
**Former Mystic Oral School for the Deaf**

	Location ID	SB-058	SB-059	SB-059	SB-061	SB-062	SB-062	SB-063
	Sample ID	1273870	1273854	1273855	1273853	1273846	1273849	1273835
	Sample Date	01/29/2013	01/28/2013	01/28/2013	01/28/2013	01/28/2013	01/28/2013	01/28/2013
	Sample Time	15:29	11:13	11:13	10:15	12:01	14:20	10:51
	Sample Depth	0' - 2'	0' - 2'	0' - 2'	0' - 1.8'	2' - 4'	8' - 10'	0' - 2'
	Laboratory	CONT	CONT	CONT	CONT	CONT	CONT	CONT
	Lab. Number	13A0745-10	13A0744-05	13A0744-06	13A0744-04	13A0744-28	13A0744-31	13A0744-17
Constituent	Units							
Arochlor 1254	ug/kg							
Arochlor 1260	ug/kg							
Arochlor 1262	ug/kg							
Arochlor 1268	ug/kg							
Aldrin	ug/kg							
Hexachlorobenzene	ug/kg							
Chlordane	ug/kg							
BHC(alpha-)	ug/kg							
BHC(beta-)	ug/kg							
BHC(delta-)	ug/kg							
Lindane	ug/kg							
Dieldrin	ug/kg							
Endrin	ug/kg							
Endrin aldehyde	ug/kg							
Endrin ketone	ug/kg							
p,p'-DDT	ug/kg							
Methoxychlor	ug/kg							
p,p'-DDD	ug/kg							
p,p'-DDE	ug/kg							
Heptachlor Epoxide	ug/kg							
Heptachlor	ug/kg							
Endosulfan Sulfate	ug/kg							
Alpha Endosulfan	ug/kg							
Beta Endosulfan	ug/kg							
Toxaphene	ug/kg							
Cyanide	mg/kg		<0.31	1.1	<0.44			
Total Petroleum Hydrocarbons (CT ETPH)	mg/kg	240	30	140	<11	15	<11	270
Acenaphthylene	ug/kg	<210	<180	<180	<180	<180	<180	240



**Table 6-3**  
**LABORATORY ANALYTICAL RESULTS FOR SOIL SAMPLES**  
**Former Mystic Oral School for the Deaf**

	Location ID	SB-058	SB-059	SB-059	SB-061	SB-062	SB-062	SB-063
	Sample ID	1273870	1273854	1273855	1273853	1273846	1273849	1273835
	Sample Date	01/29/2013	01/28/2013	01/28/2013	01/28/2013	01/28/2013	01/28/2013	01/28/2013
	Sample Time	15:29	11:13	11:13	10:15	12:01	14:20	10:51
	Sample Depth	0' - 2'	0' - 2'	0' - 2'	0' - 1.8'	2' - 4'	8' - 10'	0' - 2'
	Laboratory	CONT	CONT	CONT	CONT	CONT	CONT	CONT
	Lab. Number	13A0745-10	13A0744-05	13A0744-06	13A0744-04	13A0744-28	13A0744-31	13A0744-17
Constituent	Units							
Benzo[a]anthracene	ug/kg	740	<180	<180	<180	<180	<180	530
Benzo[b]fluoranthene	ug/kg	950	<180	<180	<180	<180	<180	860
Benzo(a)pyrene	ug/kg	770	<180	<180	<180	<180	<180	550
Benzo(g,h,i)perylene	ug/kg	340	<180	<180	<180	<180	<180	230
Benzo(k)fluoranthene	ug/kg	330	<180	<180	<180	<180	<180	330
Chrysene	ug/kg	920	<180	<180	<180	<180	<180	690
Dibenz(a,h)anthracene	ug/kg	<210	<180	<180	<180	<180	<180	<210
Fluoranthene	ug/kg	1100	<180	<180	<180	<180	<180	1200
Fluorene	ug/kg	<210	<180	<180	<180	<180	<180	<210
Indeno(1,2,3-c,d)pyrene	ug/kg	520	<180	<180	<180	<180	<180	290
Naphthalene	ug/kg	<4.5	<3.7	<3.7	<4.3	<1.9	<3.2	<4.1
Naphthalene	ug/kg	<210	<180	<180	<180	<180	<180	<210
Phenanthrene	ug/kg	1000	<180	<180	<180	<180	<180	640
Pyrene	ug/kg	1300	<180	<180	<180	<180	<180	760
1,2-Dichloropropane	ug/kg	<2.3	<1.9	<1.9	<2.1	<0.95	<1.6	<2.0
Acenaphthene	ug/kg	<210	<180	<180	<180	<180	<180	<210
Acetone	ug/kg	<110	<93	<93	<110	<48	<79	<100
Acrylonitrile	ug/kg	<6.8	<5.6	<5.6	<6.4	<2.9	<4.7	<6.1
Anthracene	ug/kg	<210	<180	<180	<180	<180	<180	<210
2-Hexanone	ug/kg	<23	<19	<19	<21	<9.5	<16	<20
Benzene	ug/kg	<2.3	<1.9	<1.9	<2.1	<0.95	<1.6	<2.0
1,2,3-Trichlorobenzene	ug/kg	<2.3	<1.9	<1.9	<2.1	<0.95	<1.6	<2.0
1,2,4-Trichlorobenzene	ug/kg	<2.3	<1.9	<1.9	<2.1	<0.95	<1.6	<2.0
1,2,4-Trimethylbenzene	ug/kg	<2.3	<1.9	<1.9	<2.1	<0.95	<1.6	<2.0
o-Dichlorobenzene	ug/kg	<2.3	<1.9	<1.9	<2.1	<0.95	<1.6	<2.0
1,3,5-Trimethylbenzene	ug/kg	<2.3	<1.9	<1.9	<2.1	<0.95	<1.6	<2.0
m-Dichlorobenzene	ug/kg	<2.3	<1.9	<1.9	<2.1	<0.95	<1.6	<2.0
p-Dichlorobenzene	ug/kg	<2.3	<1.9	<1.9	<2.1	<0.95	<1.6	<2.0



**Table 6-3**  
**LABORATORY ANALYTICAL RESULTS FOR SOIL SAMPLES**  
**Former Mystic Oral School for the Deaf**

	Location ID	SB-058	SB-059	SB-059	SB-061	SB-062	SB-062	SB-063
	Sample ID	1273870	1273854	1273855	1273853	1273846	1273849	1273835
	Sample Date	01/29/2013	01/28/2013	01/28/2013	01/28/2013	01/28/2013	01/28/2013	01/28/2013
	Sample Time	15:29	11:13	11:13	10:15	12:01	14:20	10:51
	Sample Depth	0' - 2'	0' - 2'	0' - 2'	0' - 1.8'	2' - 4'	8' - 10'	0' - 2'
	Laboratory	CONT	CONT	CONT	CONT	CONT	CONT	CONT
	Lab. Number	13A0745-10	13A0744-05	13A0744-06	13A0744-04	13A0744-28	13A0744-31	13A0744-17
Constituent	Units							
Bromobenzene	ug/kg	<2.3	<1.9	<1.9	<2.1	<0.95	<1.6	<2.0
Butyl Benzene	ug/kg	<2.3	<1.9	<1.9	<2.1	<0.95	<1.6	<2.0
Chlorobenzene	ug/kg	<2.3	<1.9	<1.9	<2.1	<0.95	<1.6	<2.0
Ethylbenzene	ug/kg	<2.3	<1.9	<1.9	<2.1	<0.95	<1.6	<2.0
Isopropylbenzene (Cumene)	ug/kg	<2.3	<1.9	<1.9	<2.1	<0.95	<1.6	<2.0
Propylbenzene	ug/kg	<2.3	<1.9	<1.9	<2.1	<0.95	<1.6	<2.0
sec-Butylbenzene	ug/kg	<2.3	<1.9	<1.9	<2.1	<0.95	<1.6	<2.0
tert-Butylbenzene	ug/kg	<2.3	<1.9	<1.9	<2.1	<0.95	<1.6	<2.0
Hexachlorobutadiene	ug/kg	<2.3	<1.9	<1.9	<2.1	<0.95	<1.6	<2.0
Methyl Ethyl ketone	ug/kg	<45	<37	<37	<43	<19	<32	<41
trans-1,4-Dichlorobutene	ug/kg	<4.5	<3.7	<3.7	<4.3	<1.9	<3.2	<4.1
Carbon Disulfide	ug/kg	<6.8	<5.6	<5.6	<6.4	<2.9	<4.7	<6.1
Carbon Tetrachloride	ug/kg	<2.3	<1.9	<1.9	<2.1	<0.95	<1.6	<2.0
4-Isopropyltoluene	ug/kg	<2.3	<1.9	<1.9	<2.1	<0.95	<1.6	<2.0
1,1,1,2-Tetrachloroethane	ug/kg	<2.3	<1.9	<1.9	<2.1	<0.95	<1.6	<2.0
1,1,1-Trichloroethane	ug/kg	<2.3	<1.9	<1.9	<2.1	<0.95	<1.6	<2.0
1,1,2,2-Tetrachloroethane	ug/kg	<1.1	<0.93	<0.93	<1.1	<0.48	<0.79	<1.0
1,1,2-Trichloroethane	ug/kg	<2.3	<1.9	<1.9	<2.1	<0.95	<1.6	<2.0
1,1,2-Trichlorotrifluoroethane	ug/kg	<11	<9.3	<9.3	<11	<4.8	<7.9	<10
1,1-Dichloroethane	ug/kg	<2.3	<1.9	<1.9	<2.1	<0.95	<1.6	<2.0
Ethylene Dibromide	ug/kg	<1.1	<0.93	<0.93	<1.1	<0.48	<0.79	<1.0
1,2-Dichloroethane	ug/kg	<2.3	<1.9	<1.9	<2.1	<0.95	<1.6	<2.0
Chloroethane	ug/kg	<23	<19	<19	<21	<9.5	<16	<20
Methyl tert-Butyl ether	ug/kg	<4.5	<3.7	<3.7	<4.3	<1.9	<3.2	<4.1
1,1-Dichloroethylene	ug/kg	<4.5	<3.7	<3.7	<4.3	<1.9	<3.2	<4.1
trans-1,2-Dichloroethylene	ug/kg	<2.3	<1.9	<1.9	<2.1	<0.95	<1.6	<2.0
cis-1,2-Dichloroethylene	ug/kg	<2.3	<1.9	<1.9	<2.1	<0.95	<1.6	<2.0
Vinyl Chloride	ug/kg	<11	<9.3	<9.3	<11	<4.8	<7.9	<10



**Table 6-3**  
**LABORATORY ANALYTICAL RESULTS FOR SOIL SAMPLES**  
**Former Mystic Oral School for the Deaf**

	Location ID	SB-058	SB-059	SB-059	SB-061	SB-062	SB-062	SB-063
	Sample ID	1273870	1273854	1273855	1273853	1273846	1273849	1273835
	Sample Date	01/29/2013	01/28/2013	01/28/2013	01/28/2013	01/28/2013	01/28/2013	01/28/2013
	Sample Time	15:29	11:13	11:13	10:15	12:01	14:20	10:51
	Sample Depth	0' - 2'	0' - 2'	0' - 2'	0' - 1.8'	2' - 4'	8' - 10'	0' - 2'
	Laboratory	CONT	CONT	CONT	CONT	CONT	CONT	CONT
	Lab. Number	13A0745-10	13A0744-05	13A0744-06	13A0744-04	13A0744-28	13A0744-31	13A0744-17
Constituent	Units							
Tetrachloroethylene	ug/kg	<2.3	<1.9	<1.9	<2.1	<0.95	<1.6	<2.0
Tetrahydrofuran	ug/kg	<11	<9.3	<9.3	<11	<4.8	<7.9	<10
Bromomethane	ug/kg	<11	<9.3	<9.3	<11	<4.8	<7.9	<10
Bromodichloromethane	ug/kg	<2.3	<1.9	<1.9	<2.1	<0.95	<1.6	<2.0
Chloromethane	ug/kg	<11	<9.3	<9.3	<11	<4.8	<7.9	<10
Chlorodibromomethane	ug/kg	<1.1	<0.93	<0.93	<1.1	<0.48	<0.79	<1.0
Methylene Dibromide	ug/kg	<2.3	<1.9	<1.9	<2.1	<0.95	<1.6	<2.0
Methylene Chloride	ug/kg	<23	<19	<19	<21	<9.5	<16	<20
Dichlorodifluoromethane	ug/kg	<23	<19	<19	<21	<9.5	<16	<20
Bromoform	ug/kg	<2.3	<1.9	<1.9	<2.1	<0.95	<1.6	<2.0
Chloroform	ug/kg	<4.5	<3.7	<3.7	<4.3	<1.9	<3.2	<4.1
Trichlorofluoromethane	ug/kg	<11	<9.3	<9.3	<11	<4.8	<7.9	<10
beta-Methylnaphthalene	ug/kg	<210	<180	<180	<180	<180	<180	<210
Methyl Isobutyl ketone	ug/kg	<23	<19	<19	<21	<9.5	<16	<20
1,2,3-Trichloropropane	ug/kg	<2.3	<1.9	<1.9	<2.1	<0.95	<1.6	<2.0
1,2-Dibromo-3-Chloropropane	ug/kg	<2.3	<1.9	<1.9	<2.1	<0.95	<1.6	<2.0
1,3-Dichloropropane	ug/kg	<1.1	<0.93	<0.93	<1.1	<0.48	<0.79	<1.0
sec-Dichloropropane	ug/kg	<2.3	<1.9	<1.9	<2.1	<0.95	<1.6	<2.0
1,1-Dichloropropene	ug/kg	<2.3	<1.9	<1.9	<2.1	<0.95	<1.6	<2.0
trans-1,3-Dichloropropene	ug/kg	<1.1	<0.93	<0.93	<1.1	<0.48	<0.79	<1.0
cis-1,3-Dichloropropene	ug/kg	<1.1	<0.93	<0.93	<1.1	<0.48	<0.79	<1.0
Styrene	ug/kg	<2.3	<1.9	<1.9	<2.1	<0.95	<1.6	<2.0
Toluene	ug/kg	<2.3	<1.9	<1.9	<2.1	<0.95	<1.6	<2.0
o-Chlorotoluene	ug/kg	<2.3	<1.9	<1.9	<2.1	<0.95	<1.6	<2.0
p-Chlorotoluene	ug/kg	<2.3	<1.9	<1.9	<2.1	<0.95	<1.6	<2.0
Trichloroethylene	ug/kg	<2.3	<1.9	<1.9	<2.1	<0.95	<1.6	<2.0
o-Xylene	ug/kg	<2.3	<1.9	<1.9	<2.1	<0.95	<1.6	<2.0
Xylenes,m- & p-	ug/kg	<4.5	<3.7	<3.7	<4.3	<1.9	<3.2	<4.1



**Table 6-3**  
**LABORATORY ANALYTICAL RESULTS FOR SOIL SAMPLES**  
**Former Mystic Oral School for the Deaf**

	Location ID	SB-063	SB-063	SB-063	SS-01	SS-01	SS-02	SS-02
	Sample ID	1273836	1273837	1273838	1273761	1273761	1273762	1273762
	Sample Date	01/28/2013	01/28/2013	01/28/2013	01/24/2013	01/24/2013	01/24/2013	01/24/2013
	Sample Time	10:55	11:01	11:07	11:05	11:05	11:08	11:08
	Sample Depth	2' - 4'	4' - 6'	6' - 8'	0' - 0.5'	0' - 0.5'	0' - 0.5'	0' - 0.5'
	Laboratory	CONT	CONT	CONT	CONT	CONT	CONT	CONT
	Lab. Number	13A0744-18	13A0744-19	13A0744-20	13A0643-18	13A0643-18RE1	13A0643-17	13A0643-17RE1
Constituent	Units							
Date PCBs Analyzed	-				01/29/2013		01/29/2013	
Date Metals Analyzed	-							
Date Organics Analyzed	-	02/01/2013	02/01/2013	02/01/2013				
Date Pesticides/Herbicides Analyzed	-							
Date Physical Analyzed	-	02/06/2013	02/06/2013	02/06/2013		01/31/2013		01/31/2013
Date Semivolatile Organics Analyzed	-	02/04/2013	02/04/2013	02/04/2013	01/29/2013		01/30/2013	
Alachlor	ug/kg							
2,4,5-Trichlorophenoxyacetic acid	ug/kg							
2,4-Dichlorophenoxyacetic acid	ug/kg							
Dicamba	ug/kg							
Dalapon	ug/kg							
Silvex	ug/kg							
Arsenic	mg/kg							
Barium	mg/kg							
Cadmium	mg/kg							
Chromium, Total	mg/kg							
Copper	mg/kg							
Lead	mg/kg							
Mercury	mg/kg							
Nickel	mg/kg							
Selenium	mg/kg							
Silver	mg/kg							
Zinc	mg/kg							
Arochlor 1016	ug/kg				<110		<120	
Arochlor 1221	ug/kg				<110		<120	
Arochlor 1232	ug/kg				<110		<120	
Arochlor 1242	ug/kg				<110		<120	
Arochlor 1248	ug/kg				<110		<120	



**Table 6-3**  
**LABORATORY ANALYTICAL RESULTS FOR SOIL SAMPLES**  
**Former Mystic Oral School for the Deaf**

	Location ID	SB-063	SB-063	SB-063	SS-01	SS-01	SS-02	SS-02
	Sample ID	1273836	1273837	1273838	1273761	1273761	1273762	1273762
	Sample Date	01/28/2013	01/28/2013	01/28/2013	01/24/2013	01/24/2013	01/24/2013	01/24/2013
	Sample Time	10:55	11:01	11:07	11:05	11:05	11:08	11:08
	Sample Depth	2' - 4'	4' - 6'	6' - 8'	0' - 0.5'	0' - 0.5'	0' - 0.5'	0' - 0.5'
	Laboratory	CONT	CONT	CONT	CONT	CONT	CONT	CONT
	Lab. Number	13A0744-18	13A0744-19	13A0744-20	13A0643-18	13A0643-18RE1	13A0643-17	13A0643-17RE1
Constituent	Units							
Arochlor 1254	ug/kg				<110		<120	
Arochlor 1260	ug/kg				<110		<120	
Arochlor 1262	ug/kg				<110		<120	
Arochlor 1268	ug/kg				<110		<120	
Aldrin	ug/kg							
Hexachlorobenzene	ug/kg							
Chlordane	ug/kg							
BHC(alpha-)	ug/kg							
BHC(beta-)	ug/kg							
BHC(delta-)	ug/kg							
Lindane	ug/kg							
Dieldrin	ug/kg							
Endrin	ug/kg							
Endrin aldehyde	ug/kg							
Endrin ketone	ug/kg							
p,p'-DDT	ug/kg							
Methoxychlor	ug/kg							
p,p'-DDD	ug/kg							
p,p'-DDE	ug/kg							
Heptachlor Epoxide	ug/kg							
Heptachlor	ug/kg							
Endosulfan Sulfate	ug/kg							
Alpha Endosulfan	ug/kg							
Beta Endosulfan	ug/kg							
Toxaphene	ug/kg							
Cyanide	mg/kg							
Total Petroleum Hydrocarbons (CT ETPH)	mg/kg	55	45	40		66		120
Acenaphthylene	ug/kg	<190	<190	<190	<200		300	



**Table 6-3**  
**LABORATORY ANALYTICAL RESULTS FOR SOIL SAMPLES**  
**Former Mystic Oral School for the Deaf**

	Location ID	SB-063	SB-063	SB-063	SS-01	SS-01	SS-02	SS-02
	Sample ID	1273836	1273837	1273838	1273761	1273761	1273762	1273762
	Sample Date	01/28/2013	01/28/2013	01/28/2013	01/24/2013	01/24/2013	01/24/2013	01/24/2013
	Sample Time	10:55	11:01	11:07	11:05	11:05	11:08	11:08
	Sample Depth	2' - 4'	4' - 6'	6' - 8'	0' - 0.5'	0' - 0.5'	0' - 0.5'	0' - 0.5'
	Laboratory	CONT	CONT	CONT	CONT	CONT	CONT	CONT
	Lab. Number	13A0744-18	13A0744-19	13A0744-20	13A0643-18	13A0643-18RE1	13A0643-17	13A0643-17RE1
Constituent	Units							
Benzo[a]anthracene	ug/kg	320	280	<190	210		680	
Benzo[b]fluoranthene	ug/kg	390	340	<190	380		940	
Benzo(a)pyrene	ug/kg	330	320	<190	260		720	
Benzo(g,h,i)perylene	ug/kg	250	250	<190	<200		500	
Benzo(k)fluoranthene	ug/kg	<190	<190	<190	<200		380	
Chrysene	ug/kg	420	340	<190	340		950	
Dibenz(a,h)anthracene	ug/kg	<190	<190	<190	<200		<200	
Fluoranthene	ug/kg	510	400	250	430		1500	
Fluorene	ug/kg	<190	<190	<190	<200		<200	
Indeno(1,2,3-c,d)pyrene	ug/kg	360	360	<190	240		510	
Naphthalene	ug/kg	<4.4	<3.6	<2.0				
Naphthalene	ug/kg	<190	<190	250	<200		<200	
Phenanthrene	ug/kg	530	250	540	320		1200	
Pyrene	ug/kg	780	600	270	410		1400	
1,2-Dichloropropane	ug/kg	<2.2	<1.8	<1.0				
Acenaphthene	ug/kg	<190	<190	210	<200		<200	
Acetone	ug/kg	<110	<89	<51				
Acrylonitrile	ug/kg	<6.7	<5.3	<3.1				
Anthracene	ug/kg	<190	<190	<190	<200		<200	
2-Hexanone	ug/kg	<22	<18	<10				
Benzene	ug/kg	<2.2	<1.8	<1.0				
1,2,3-Trichlorobenzene	ug/kg	<2.2	<1.8	<1.0				
1,2,4-Trichlorobenzene	ug/kg	<2.2	<1.8	<1.0				
1,2,4-Trimethylbenzene	ug/kg	<2.2	<1.8	<1.0				
o-Dichlorobenzene	ug/kg	<2.2	<1.8	<1.0				
1,3,5-Trimethylbenzene	ug/kg	<2.2	<1.8	<1.0				
m-Dichlorobenzene	ug/kg	<2.2	<1.8	<1.0				
p-Dichlorobenzene	ug/kg	<2.2	<1.8	<1.0				



**Table 6-3**  
**LABORATORY ANALYTICAL RESULTS FOR SOIL SAMPLES**  
**Former Mystic Oral School for the Deaf**

	Location ID	SB-063	SB-063	SB-063	SS-01	SS-01	SS-02	SS-02
	Sample ID	1273836	1273837	1273838	1273761	1273761	1273762	1273762
	Sample Date	01/28/2013	01/28/2013	01/28/2013	01/24/2013	01/24/2013	01/24/2013	01/24/2013
	Sample Time	10:55	11:01	11:07	11:05	11:05	11:08	11:08
	Sample Depth	2' - 4'	4' - 6'	6' - 8'	0' - 0.5'	0' - 0.5'	0' - 0.5'	0' - 0.5'
	Laboratory	CONT	CONT	CONT	CONT	CONT	CONT	CONT
	Lab. Number	13A0744-18	13A0744-19	13A0744-20	13A0643-18	13A0643-18RE1	13A0643-17	13A0643-17RE1
Constituent	Units							
Bromobenzene	ug/kg	<2.2	<1.8	<1.0				
Butyl Benzene	ug/kg	<2.2	<1.8	<1.0				
Chlorobenzene	ug/kg	<2.2	<1.8	<1.0				
Ethylbenzene	ug/kg	<2.2	<1.8	<1.0				
Isopropylbenzene (Cumene)	ug/kg	<2.2	<1.8	<1.0				
Propylbenzene	ug/kg	<2.2	<1.8	<1.0				
sec-Butylbenzene	ug/kg	<2.2	<1.8	<1.0				
tert-Butylbenzene	ug/kg	<2.2	<1.8	<1.0				
Hexachlorobutadiene	ug/kg	<2.2	<1.8	<1.0				
Methyl Ethyl ketone	ug/kg	<44	<36	<20				
trans-1,4-Dichlorobutene	ug/kg	<4.4	<3.6	<2.0				
Carbon Disulfide	ug/kg	<6.7	<5.3	<3.1				
Carbon Tetrachloride	ug/kg	<2.2	<1.8	<1.0				
4-Isopropyltoluene	ug/kg	<2.2	<1.8	<1.0				
1,1,1,2-Tetrachloroethane	ug/kg	<2.2	<1.8	<1.0				
1,1,1-Trichloroethane	ug/kg	<2.2	<1.8	<1.0				
1,1,2,2-Tetrachloroethane	ug/kg	<1.1	<0.89	<0.51				
1,1,2-Trichloroethane	ug/kg	<2.2	<1.8	<1.0				
1,1,2-Trichlorotrifluoroethane	ug/kg	<11	<8.9	<5.1				
1,1-Dichloroethane	ug/kg	<2.2	<1.8	<1.0				
Ethylene Dibromide	ug/kg	<1.1	<0.89	<0.51				
1,2-Dichloroethane	ug/kg	<2.2	<1.8	<1.0				
Chloroethane	ug/kg	<22	<18	<10				
Methyl tert-Butyl ether	ug/kg	<4.4	<3.6	<2.0				
1,1-Dichloroethylene	ug/kg	<4.4	<3.6	<2.0				
trans-1,2-Dichloroethylene	ug/kg	<2.2	<1.8	<1.0				
cis-1,2-Dichloroethylene	ug/kg	<2.2	<1.8	<1.0				
Vinyl Chloride	ug/kg	<11	<8.9	<5.1				



**Table 6-3**  
**LABORATORY ANALYTICAL RESULTS FOR SOIL SAMPLES**  
**Former Mystic Oral School for the Deaf**

	Location ID	SB-063	SB-063	SB-063	SS-01	SS-01	SS-02	SS-02
	Sample ID	1273836	1273837	1273838	1273761	1273761	1273762	1273762
	Sample Date	01/28/2013	01/28/2013	01/28/2013	01/24/2013	01/24/2013	01/24/2013	01/24/2013
	Sample Time	10:55	11:01	11:07	11:05	11:05	11:08	11:08
	Sample Depth	2' - 4'	4' - 6'	6' - 8'	0' - 0.5'	0' - 0.5'	0' - 0.5'	0' - 0.5'
	Laboratory	CONT	CONT	CONT	CONT	CONT	CONT	CONT
	Lab. Number	13A0744-18	13A0744-19	13A0744-20	13A0643-18	13A0643-18RE1	13A0643-17	13A0643-17RE1
Constituent	Units							
Tetrachloroethylene	ug/kg	<2.2	<1.8	<1.0				
Tetrahydrofuran	ug/kg	<11	<8.9	<5.1				
Bromomethane	ug/kg	<11	<8.9	<5.1				
Bromodichloromethane	ug/kg	<2.2	<1.8	<1.0				
Chloromethane	ug/kg	<11	<8.9	<5.1				
Chlorodibromomethane	ug/kg	<1.1	<0.89	<0.51				
Methylene Dibromide	ug/kg	<2.2	<1.8	<1.0				
Methylene Chloride	ug/kg	<22	<18	<10				
Dichlorodifluoromethane	ug/kg	<22	<18	<10				
Bromoform	ug/kg	<2.2	<1.8	<1.0				
Chloroform	ug/kg	<4.4	<3.6	<2.0				
Trichlorofluoromethane	ug/kg	<11	<8.9	<5.1				
beta-Methylnaphthalene	ug/kg	<190	<190	<190	<200		<200	
Methyl Isobutyl ketone	ug/kg	<22	<18	<10				
1,2,3-Trichloropropane	ug/kg	<2.2	<1.8	<1.0				
1,2-Dibromo-3-Chloropropane	ug/kg	<2.2	<1.8	<1.0				
1,3-Dichloropropane	ug/kg	<1.1	<0.89	<0.51				
sec-Dichloropropane	ug/kg	<2.2	<1.8	<1.0				
1,1-Dichloropropene	ug/kg	<2.2	<1.8	<1.0				
trans-1,3-Dichloropropene	ug/kg	<1.1	<0.89	<0.51				
cis-1,3-Dichloropropene	ug/kg	<1.1	<0.89	<0.51				
Styrene	ug/kg	<2.2	<1.8	<1.0				
Toluene	ug/kg	<2.2	<1.8	<1.0				
o-Chlorotoluene	ug/kg	<2.2	<1.8	<1.0				
p-Chlorotoluene	ug/kg	<2.2	<1.8	<1.0				
Trichloroethylene	ug/kg	<2.2	<1.8	<1.0				
o-Xylene	ug/kg	<2.2	<1.8	<1.0				
Xylenes,m- & p-	ug/kg	<4.4	<3.6	<2.0				



**Table 6-3**  
**LABORATORY ANALYTICAL RESULTS FOR SOIL SAMPLES**  
**Former Mystic Oral School for the Deaf**

	Location ID	SS-03	SS-03	SS-07	SS-07	SS-08	SS-08	SS-09
	Sample ID	1273763	1273763	1273741	1273741	1273742	1273742	1273743
	Sample Date	01/24/2013	01/24/2013	01/24/2013	01/24/2013	01/24/2013	01/24/2013	01/24/2013
	Sample Time	11:13	11:13	09:50	09:50	09:55	09:55	10:00
	Sample Depth	0' - 0.5'	0' - 0.5'	0' - 0.5'	0' - 0.5'	0' - 0.5'	0' - 0.5'	0' - 0.5'
	Laboratory	CONT	CONT	CONT	CONT	CONT	CONT	CONT
	Lab. Number	13A0643-16	13A0643-16RE1	13A0643-19	13A0643-19RE1	13A0643-20	13A0643-20RE1	13A0643-21
Constituent	Units							
Date PCBs Analyzed	-	01/29/2013		01/29/2013		01/29/2013		01/29/2013
Date Metals Analyzed	-							
Date Organics Analyzed	-							
Date Pesticides/Herbicides Analyzed	-							
Date Physical Analyzed	-		01/31/2013		01/31/2013		01/31/2013	
Date Semivolatile Organics Analyzed	-	01/29/2013		01/30/2013		01/29/2013	01/30/2013	01/29/2013
Alachlor	ug/kg							
2,4,5-Trichlorophenoxyacetic acid	ug/kg							
2,4-Dichlorophenoxyacetic acid	ug/kg							
Dicamba	ug/kg							
Dalapon	ug/kg							
Silvex	ug/kg							
Arsenic	mg/kg							
Barium	mg/kg							
Cadmium	mg/kg							
Chromium, Total	mg/kg							
Copper	mg/kg							
Lead	mg/kg							
Mercury	mg/kg							
Nickel	mg/kg							
Selenium	mg/kg							
Silver	mg/kg							
Zinc	mg/kg							
Arochlor 1016	ug/kg	<120		<120		<130		<120
Arochlor 1221	ug/kg	<120		<120		<130		<120
Arochlor 1232	ug/kg	<120		<120		<130		<120
Arochlor 1242	ug/kg	<120		<120		<130		<120
Arochlor 1248	ug/kg	<120		<120		<130		<120



**Table 6-3**  
**LABORATORY ANALYTICAL RESULTS FOR SOIL SAMPLES**  
**Former Mystic Oral School for the Deaf**

	Location ID	SS-03	SS-03	SS-07	SS-07	SS-08	SS-08	SS-09
	Sample ID	1273763	1273763	1273741	1273741	1273742	1273742	1273743
	Sample Date	01/24/2013	01/24/2013	01/24/2013	01/24/2013	01/24/2013	01/24/2013	01/24/2013
	Sample Time	11:13	11:13	09:50	09:50	09:55	09:55	10:00
	Sample Depth	0' - 0.5'	0' - 0.5'	0' - 0.5'	0' - 0.5'	0' - 0.5'	0' - 0.5'	0' - 0.5'
	Laboratory	CONT	CONT	CONT	CONT	CONT	CONT	CONT
	Lab. Number	13A0643-16	13A0643-16RE1	13A0643-19	13A0643-19RE1	13A0643-20	13A0643-20RE1	13A0643-21
Constituent	Units							
Arochlor 1254	ug/kg	<120		<120		<130		<120
Arochlor 1260	ug/kg	<120		<120		<130		<120
Arochlor 1262	ug/kg	<120		<120		<130		<120
Arochlor 1268	ug/kg	<120		<120		<130		<120
Aldrin	ug/kg							
Hexachlorobenzene	ug/kg							
Chlordane	ug/kg							
BHC(alpha-)	ug/kg							
BHC(beta-)	ug/kg							
BHC(delta-)	ug/kg							
Lindane	ug/kg							
Dieldrin	ug/kg							
Endrin	ug/kg							
Endrin aldehyde	ug/kg							
Endrin ketone	ug/kg							
p,p'-DDT	ug/kg							
Methoxychlor	ug/kg							
p,p'-DDD	ug/kg							
p,p'-DDE	ug/kg							
Heptachlor Epoxide	ug/kg							
Heptachlor	ug/kg							
Endosulfan Sulfate	ug/kg							
Alpha Endosulfan	ug/kg							
Beta Endosulfan	ug/kg							
Toxaphene	ug/kg							
Cyanide	mg/kg							
Total Petroleum Hydrocarbons (CT ETPH)	mg/kg		180		160		450	
Acenaphthylene	ug/kg	<210		460		2600	3100	430



**Table 6-3**  
**LABORATORY ANALYTICAL RESULTS FOR SOIL SAMPLES**  
**Former Mystic Oral School for the Deaf**

	Location ID	SS-03	SS-03	SS-07	SS-07	SS-08	SS-08	SS-09
	Sample ID	1273763	1273763	1273741	1273741	1273742	1273742	1273743
	Sample Date	01/24/2013	01/24/2013	01/24/2013	01/24/2013	01/24/2013	01/24/2013	01/24/2013
	Sample Time	11:13	11:13	09:50	09:50	09:55	09:55	10:00
	Sample Depth	0' - 0.5'	0' - 0.5'	0' - 0.5'	0' - 0.5'	0' - 0.5'	0' - 0.5'	0' - 0.5'
	Laboratory	CONT	CONT	CONT	CONT	CONT	CONT	CONT
	Lab. Number	13A0643-16	13A0643-16RE1	13A0643-19	13A0643-19RE1	13A0643-20	13A0643-20RE1	13A0643-21
Constituent	Units							
Benzo[a]anthracene	ug/kg	630		1200		9400	10000	2400
Benzo[b]fluoranthene	ug/kg	1200		1400		9900	11000	3000
Benzo(a)pyrene	ug/kg	790		1200		7300	8400	2200
Benzo(g,h,i)perylene	ug/kg	300		960		2100	<2200	870
Benzo(k)fluoranthene	ug/kg	390		550		3600	4100	1000
Chrysene	ug/kg	1000		1400		9800	11000	2600
Dibenz(a,h)anthracene	ug/kg	<210		270		880	<2200	350
Fluoranthene	ug/kg	1200		1900		18000 E	22000	4400
Fluorene	ug/kg	<210		<200		4000	4800	380
Indeno(1,2,3-c,d)pyrene	ug/kg	450		1000		2500	3600	1100
Naphthalene	ug/kg							
Naphthalene	ug/kg	<210		<200		1200	<2200	<210
Phenanthrene	ug/kg	1100		1200		28000 E	33000	3600
Pyrene	ug/kg	1200		2800		13000 E	14000	3400
1,2-Dichloropropane	ug/kg							
Acenaphthene	ug/kg	<210		<200		1200	<2200	<210
Acetone	ug/kg							
Acrylonitrile	ug/kg							
Anthracene	ug/kg	<210		<200		4000	4800	580
2-Hexanone	ug/kg							
Benzene	ug/kg							
1,2,3-Trichlorobenzene	ug/kg							
1,2,4-Trichlorobenzene	ug/kg							
1,2,4-Trimethylbenzene	ug/kg							
o-Dichlorobenzene	ug/kg							
1,3,5-Trimethylbenzene	ug/kg							
m-Dichlorobenzene	ug/kg							
p-Dichlorobenzene	ug/kg							



**Table 6-3**  
**LABORATORY ANALYTICAL RESULTS FOR SOIL SAMPLES**  
**Former Mystic Oral School for the Deaf**

	Location ID	SS-03	SS-03	SS-07	SS-07	SS-08	SS-08	SS-09
	Sample ID	1273763	1273763	1273741	1273741	1273742	1273742	1273743
	Sample Date	01/24/2013	01/24/2013	01/24/2013	01/24/2013	01/24/2013	01/24/2013	01/24/2013
	Sample Time	11:13	11:13	09:50	09:50	09:55	09:55	10:00
	Sample Depth	0' - 0.5'	0' - 0.5'	0' - 0.5'	0' - 0.5'	0' - 0.5'	0' - 0.5'	0' - 0.5'
	Laboratory	CONT	CONT	CONT	CONT	CONT	CONT	CONT
	Lab. Number	13A0643-16	13A0643-16RE1	13A0643-19	13A0643-19RE1	13A0643-20	13A0643-20RE1	13A0643-21
Constituent	Units							
Bromobenzene	ug/kg							
Butyl Benzene	ug/kg							
Chlorobenzene	ug/kg							
Ethylbenzene	ug/kg							
Isopropylbenzene (Cumene)	ug/kg							
Propylbenzene	ug/kg							
sec-Butylbenzene	ug/kg							
tert-Butylbenzene	ug/kg							
Hexachlorobutadiene	ug/kg							
Methyl Ethyl ketone	ug/kg							
trans-1,4-Dichlorobutene	ug/kg							
Carbon Disulfide	ug/kg							
Carbon Tetrachloride	ug/kg							
4-Isopropyltoluene	ug/kg							
1,1,1,2-Tetrachloroethane	ug/kg							
1,1,1-Trichloroethane	ug/kg							
1,1,2,2-Tetrachloroethane	ug/kg							
1,1,2-Trichloroethane	ug/kg							
1,1,2-Trichlorotrifluoroethane	ug/kg							
1,1-Dichloroethane	ug/kg							
Ethylene Dibromide	ug/kg							
1,2-Dichloroethane	ug/kg							
Chloroethane	ug/kg							
Methyl tert-Butyl ether	ug/kg							
1,1-Dichloroethylene	ug/kg							
trans-1,2-Dichloroethylene	ug/kg							
cis-1,2-Dichloroethylene	ug/kg							
Vinyl Chloride	ug/kg							



**Table 6-3**  
**LABORATORY ANALYTICAL RESULTS FOR SOIL SAMPLES**  
**Former Mystic Oral School for the Deaf**

	Location ID	SS-03	SS-03	SS-07	SS-07	SS-08	SS-08	SS-09
	Sample ID	1273763	1273763	1273741	1273741	1273742	1273742	1273743
	Sample Date	01/24/2013	01/24/2013	01/24/2013	01/24/2013	01/24/2013	01/24/2013	01/24/2013
	Sample Time	11:13	11:13	09:50	09:50	09:55	09:55	10:00
	Sample Depth	0' - 0.5'	0' - 0.5'	0' - 0.5'	0' - 0.5'	0' - 0.5'	0' - 0.5'	0' - 0.5'
	Laboratory	CONT	CONT	CONT	CONT	CONT	CONT	CONT
	Lab. Number	13A0643-16	13A0643-16RE1	13A0643-19	13A0643-19RE1	13A0643-20	13A0643-20RE1	13A0643-21
Constituent	Units							
Tetrachloroethylene	ug/kg							
Tetrahydrofuran	ug/kg							
Bromomethane	ug/kg							
Bromodichloromethane	ug/kg							
Chloromethane	ug/kg							
Chlorodibromomethane	ug/kg							
Methylene Dibromide	ug/kg							
Methylene Chloride	ug/kg							
Dichlorodifluoromethane	ug/kg							
Bromoform	ug/kg							
Chloroform	ug/kg							
Trichlorofluoromethane	ug/kg							
beta-Methylnaphthalene	ug/kg	<210		<200		1400	<2200	<210
Methyl Isobutyl ketone	ug/kg							
1,2,3-Trichloropropane	ug/kg							
1,2-Dibromo-3-Chloropropane	ug/kg							
1,3-Dichloropropane	ug/kg							
sec-Dichloropropane	ug/kg							
1,1-Dichloropropene	ug/kg							
trans-1,3-Dichloropropene	ug/kg							
cis-1,3-Dichloropropene	ug/kg							
Styrene	ug/kg							
Toluene	ug/kg							
o-Chlorotoluene	ug/kg							
p-Chlorotoluene	ug/kg							
Trichloroethylene	ug/kg							
o-Xylene	ug/kg							
Xylenes,m- & p-	ug/kg							



**Table 6-3**  
**LABORATORY ANALYTICAL RESULTS FOR SOIL SAMPLES**  
**Former Mystic Oral School for the Deaf**

	Location ID	SS-09	SS-13	SS-14	SS-15	SS-16	SS-17	SS-18
	Sample ID	1273743	1273764	1273784	1273785	1273786	1273787	1273788
	Sample Date	01/24/2013	01/24/2013	01/24/2013	01/24/2013	01/24/2013	01/24/2013	01/24/2013
	Sample Time	10:00	11:22	13:35	13:45	13:52	13:59	14:06
	Sample Depth	0' - 0.5'	0' - 0.5'	0' - 0.5'	0' - 0.5'	0' - 0.5'	0' - 0.5'	0' - 0.5'
	Laboratory	CONT	CONT	CONT	CONT	CONT	CONT	CONT
	Lab. Number	13A0643-21RE1	13A0643-15	13A0643-09	13A0643-08	13A0643-07	13A0643-06	13A0643-05
Constituent	Units							
Date PCBs Analyzed	-							
Date Metals Analyzed	-		01/30/2013	01/30/2013	01/30/2013	01/29/2013		01/30/2013
Date Organics Analyzed	-					01/31/2013		
Date Pesticides/Herbicides Analyzed	-		01/28/2013	01/29/2013	01/28/2013	01/29/2013	01/28/2013	01/29/2013
Date Physical Analyzed	-	01/31/2013						
Date Semivolatile Organics Analyzed	-					01/28/2013		
Alachlor	ug/kg		<23	<23	<23	<23	<26	<25
2,4,5-Trichlorophenoxyacetic acid	ug/kg							
2,4-Dichlorophenoxyacetic acid	ug/kg							
Dicamba	ug/kg							
Dalapon	ug/kg							
Silvex	ug/kg							
Arsenic	mg/kg					<2.8		
Barium	mg/kg					46		
Cadmium	mg/kg					0.29		
Chromium, Total	mg/kg					13		
Copper	mg/kg					20		
Lead	mg/kg		11	470	15	260		730
Mercury	mg/kg					0.048		
Nickel	mg/kg					6.9		
Selenium	mg/kg					<5.5		
Silver	mg/kg					<0.55		
Zinc	mg/kg					73		
Arochlor 1016	ug/kg							
Arochlor 1221	ug/kg							
Arochlor 1232	ug/kg							
Arochlor 1242	ug/kg							
Arochlor 1248	ug/kg							



**Table 6-3**  
**LABORATORY ANALYTICAL RESULTS FOR SOIL SAMPLES**  
**Former Mystic Oral School for the Deaf**

	Location ID	SS-09	SS-13	SS-14	SS-15	SS-16	SS-17	SS-18
	Sample ID	1273743	1273764	1273784	1273785	1273786	1273787	1273788
	Sample Date	01/24/2013	01/24/2013	01/24/2013	01/24/2013	01/24/2013	01/24/2013	01/24/2013
	Sample Time	10:00	11:22	13:35	13:45	13:52	13:59	14:06
	Sample Depth	0' - 0.5'	0' - 0.5'	0' - 0.5'	0' - 0.5'	0' - 0.5'	0' - 0.5'	0' - 0.5'
	Laboratory	CONT	CONT	CONT	CONT	CONT	CONT	CONT
	Lab. Number	13A0643-21RE1	13A0643-15	13A0643-09	13A0643-08	13A0643-07	13A0643-06	13A0643-05
Constituent	Units							
Arochlor 1254	ug/kg							
Arochlor 1260	ug/kg							
Arochlor 1262	ug/kg							
Arochlor 1268	ug/kg							
Aldrin	ug/kg		<5.7	<5.9	<5.7	<5.8	<6.5	<6.3
Hexachlorobenzene	ug/kg		<6.8	<7.0	<6.9	<6.9	<7.8	<7.6
Chlordane	ug/kg		<23	<23	<23	<23	<26	<25
BHC(alpha-)	ug/kg		<5.7	<5.9	<5.7	<5.8	<6.5	<6.3
BHC(beta-)	ug/kg		<5.7	<5.9	<5.7	<5.8	<6.5	<6.3
BHC(delta-)	ug/kg		<5.7	<5.9	<5.7	<5.8	<6.5	<6.3
Lindane	ug/kg		<2.3	<2.3	<2.3	<2.3	<2.6	<2.5
Dieldrin	ug/kg		<4.5	<4.7	<4.6	<4.6	<5.2	<5.1
Endrin	ug/kg		<9.1	<9.4	<9.2	<9.2	<10	<10
Endrin aldehyde	ug/kg		<9.1	<9.4	<9.2	<9.2	<10	<10
Endrin ketone	ug/kg		<9.1	<9.4	<9.2	<9.2	<10	<10
p,p'-DDT	ug/kg		<4.5	<4.7	<4.6	<4.6	<5.2	<5.1
Methoxychlor	ug/kg		<57	<59	<57	<58	<65	<63
p,p'-DDD	ug/kg		<4.5	<4.7	<4.6	<4.6	<5.2	<5.1
p,p'-DDE	ug/kg		<4.5	<4.7	<4.6	<4.6	<5.2	<5.1
Heptachlor Epoxide	ug/kg		<5.7	<5.9	<5.7	<5.8	<6.5	<6.3
Heptachlor	ug/kg		<5.7	<5.9	<5.7	<5.8	<6.5	<6.3
Endosulfan Sulfate	ug/kg		<9.1	<9.4	<9.2	<9.2	<10	<10
Alpha Endosulfan	ug/kg		<5.7	<5.9	<5.7	<5.8	<6.5	<6.3
Beta Endosulfan	ug/kg		<9.1	<9.4	<9.2	<9.2	<10	<10
Toxaphene	ug/kg		<110	<120	<110	<120	<130	<130
Cyanide	mg/kg							
Total Petroleum Hydrocarbons (CT ETPH)	mg/kg	390						
Acenaphthylene	ug/kg					<200		



**Table 6-3**  
**LABORATORY ANALYTICAL RESULTS FOR SOIL SAMPLES**  
**Former Mystic Oral School for the Deaf**

	Location ID	SS-09	SS-13	SS-14	SS-15	SS-16	SS-17	SS-18
	Sample ID	1273743	1273764	1273784	1273785	1273786	1273787	1273788
	Sample Date	01/24/2013	01/24/2013	01/24/2013	01/24/2013	01/24/2013	01/24/2013	01/24/2013
	Sample Time	10:00	11:22	13:35	13:45	13:52	13:59	14:06
	Sample Depth	0' - 0.5'	0' - 0.5'	0' - 0.5'	0' - 0.5'	0' - 0.5'	0' - 0.5'	0' - 0.5'
	Laboratory	CONT	CONT	CONT	CONT	CONT	CONT	CONT
	Lab. Number	13A0643-21RE1	13A0643-15	13A0643-09	13A0643-08	13A0643-07	13A0643-06	13A0643-05
Constituent	Units							
Benzo[a]anthracene	ug/kg					<200		
Benzo[b]fluoranthene	ug/kg					210		
Benzo(a)pyrene	ug/kg					<200		
Benzo(g,h,i)perylene	ug/kg					<200		
Benzo(k)fluoranthene	ug/kg					<200		
Chrysene	ug/kg					<200		
Dibenz(a,h)anthracene	ug/kg					<200		
Fluoranthene	ug/kg					250		
Fluorene	ug/kg					<200		
Indeno(1,2,3-c,d)pyrene	ug/kg					<200		
Naphthalene	ug/kg					<130		
Naphthalene	ug/kg					<200		
Phenanthrene	ug/kg					<200		
Pyrene	ug/kg					290		
1,2-Dichloropropane	ug/kg					<67		
Acenaphthene	ug/kg					<200		
Acetone	ug/kg					22000		
Acrylonitrile	ug/kg					<330		
Anthracene	ug/kg					<200		
2-Hexanone	ug/kg					<670		
Benzene	ug/kg					<67		
1,2,3-Trichlorobenzene	ug/kg					<330		
1,2,4-Trichlorobenzene	ug/kg					<67		
1,2,4-Trimethylbenzene	ug/kg					<67		
o-Dichlorobenzene	ug/kg					<67		
1,3,5-Trimethylbenzene	ug/kg					<67		
m-Dichlorobenzene	ug/kg					<67		
p-Dichlorobenzene	ug/kg					<67		



**Table 6-3**  
**LABORATORY ANALYTICAL RESULTS FOR SOIL SAMPLES**  
**Former Mystic Oral School for the Deaf**

	Location ID	SS-09	SS-13	SS-14	SS-15	SS-16	SS-17	SS-18
	Sample ID	1273743	1273764	1273784	1273785	1273786	1273787	1273788
	Sample Date	01/24/2013	01/24/2013	01/24/2013	01/24/2013	01/24/2013	01/24/2013	01/24/2013
	Sample Time	10:00	11:22	13:35	13:45	13:52	13:59	14:06
	Sample Depth	0' - 0.5'	0' - 0.5'	0' - 0.5'	0' - 0.5'	0' - 0.5'	0' - 0.5'	0' - 0.5'
	Laboratory	CONT	CONT	CONT	CONT	CONT	CONT	CONT
	Lab. Number	13A0643-21RE1	13A0643-15	13A0643-09	13A0643-08	13A0643-07	13A0643-06	13A0643-05
Constituent	Units							
Bromobenzene	ug/kg					<67		
Butyl Benzene	ug/kg					<67		
Chlorobenzene	ug/kg					<67		
Ethylbenzene	ug/kg					<67		
Isopropylbenzene (Cumene)	ug/kg					<67		
Propylbenzene	ug/kg					<67		
sec-Butylbenzene	ug/kg					<67		
tert-Butylbenzene	ug/kg					<67		
Hexachlorobutadiene	ug/kg					<67		
Methyl Ethyl ketone	ug/kg					<1300		
trans-1,4-Dichlorobutene	ug/kg					<130		
Carbon Disulfide	ug/kg					<200		
Carbon Tetrachloride	ug/kg					<67		
4-Isopropyltoluene	ug/kg					<67		
1,1,1,2-Tetrachloroethane	ug/kg					<67		
1,1,1-Trichloroethane	ug/kg					<67		
1,1,2,2-Tetrachloroethane	ug/kg					<33		
1,1,2-Trichloroethane	ug/kg					<67		
1,1,2-Trichlorotrifluoroethane	ug/kg					<67		
1,1-Dichloroethane	ug/kg					<67		
Ethylene Dibromide	ug/kg					<67		
1,2-Dichloroethane	ug/kg					<67		
Chloroethane	ug/kg					<130		
Methyl tert-Butyl ether	ug/kg					<67		
1,1-Dichloroethylene	ug/kg					<67		
trans-1,2-Dichloroethylene	ug/kg					<67		
cis-1,2-Dichloroethylene	ug/kg					<67		
Vinyl Chloride	ug/kg					<130		



**Table 6-3**  
**LABORATORY ANALYTICAL RESULTS FOR SOIL SAMPLES**  
**Former Mystic Oral School for the Deaf**

	Location ID	SS-09	SS-13	SS-14	SS-15	SS-16	SS-17	SS-18
	Sample ID	1273743	1273764	1273784	1273785	1273786	1273787	1273788
	Sample Date	01/24/2013	01/24/2013	01/24/2013	01/24/2013	01/24/2013	01/24/2013	01/24/2013
	Sample Time	10:00	11:22	13:35	13:45	13:52	13:59	14:06
	Sample Depth	0' - 0.5'	0' - 0.5'	0' - 0.5'	0' - 0.5'	0' - 0.5'	0' - 0.5'	0' - 0.5'
	Laboratory	CONT	CONT	CONT	CONT	CONT	CONT	CONT
	Lab. Number	13A0643-21RE1	13A0643-15	13A0643-09	13A0643-08	13A0643-07	13A0643-06	13A0643-05
Constituent	Units							
Tetrachloroethylene	ug/kg					<67		
Tetrahydrofuran	ug/kg					<670		
Bromomethane	ug/kg					<130		
Bromodichloromethane	ug/kg					<130		
Chloromethane	ug/kg					<130		
Chlorodibromomethane	ug/kg					<33		
Methylene Dibromide	ug/kg					<67		
Methylene Chloride	ug/kg					<330		
Dichlorodifluoromethane	ug/kg					<130		
Bromoform	ug/kg					<67		
Chloroform	ug/kg					<130		
Trichlorofluoromethane	ug/kg					<130		
beta-Methylnaphthalene	ug/kg					<200		
Methyl Isobutyl ketone	ug/kg					<670		
1,2,3-Trichloropropane	ug/kg					<130		
1,2-Dibromo-3-Chloropropane	ug/kg					<330		
1,3-Dichloropropane	ug/kg					<33		
sec-Dichloropropane	ug/kg					<67		
1,1-Dichloropropene	ug/kg					<130		
trans-1,3-Dichloropropene	ug/kg					<33		
cis-1,3-Dichloropropene	ug/kg					<33		
Styrene	ug/kg					<67		
Toluene	ug/kg					<67		
o-Chlorotoluene	ug/kg					<67		
p-Chlorotoluene	ug/kg					<67		
Trichloroethylene	ug/kg					<67		
o-Xylene	ug/kg					<67		
Xylenes,m- & p-	ug/kg					<130		



**Table 6-3**  
**LABORATORY ANALYTICAL RESULTS FOR SOIL SAMPLES**  
**Former Mystic Oral School for the Deaf**

	Location ID	SS-19	SS-20	SS-21				
	Sample ID	1273789	1273790	1273791				
	Sample Date	01/24/2013	01/24/2013	01/24/2013				
	Sample Time	14:15	14:26	14:45				
	Sample Depth	0' - 0.5'	0' - 0.5'	0' - 0.5'				
	Laboratory	CONT	CONT	CONT				
	Lab. Number	13A0643-04	13A0643-03	13A0643-02				
Constituent	Units							
Date PCBs Analyzed	-							
Date Metals Analyzed	-	01/30/2013		01/29/2013				
Date Organics Analyzed	-							
Date Pesticides/Herbicides Analyzed	-	01/28/2013	01/29/2013	01/28/2013				
Date Physical Analyzed	-							
Date Semivolatile Organics Analyzed	-							
Alachlor	ug/kg	<23	<24	<26				
2,4,5-Trichlorophenoxyacetic acid	ug/kg							
2,4-Dichlorophenoxyacetic acid	ug/kg							
Dicamba	ug/kg							
Dalapon	ug/kg							
Silvex	ug/kg							
Arsenic	mg/kg							
Barium	mg/kg							
Cadmium	mg/kg							
Chromium, Total	mg/kg							
Copper	mg/kg							
Lead	mg/kg	570		21				
Mercury	mg/kg							
Nickel	mg/kg							
Selenium	mg/kg							
Silver	mg/kg							
Zinc	mg/kg							
Arochlor 1016	ug/kg							
Arochlor 1221	ug/kg							
Arochlor 1232	ug/kg							
Arochlor 1242	ug/kg							
Arochlor 1248	ug/kg							



**Table 6-3**  
**LABORATORY ANALYTICAL RESULTS FOR SOIL SAMPLES**  
**Former Mystic Oral School for the Deaf**

	Location ID	SS-19	SS-20	SS-21				
	Sample ID	1273789	1273790	1273791				
	Sample Date	01/24/2013	01/24/2013	01/24/2013				
	Sample Time	14:15	14:26	14:45				
	Sample Depth	0' - 0.5'	0' - 0.5'	0' - 0.5'				
	Laboratory	CONT	CONT	CONT				
	Lab. Number	13A0643-04	13A0643-03	13A0643-02				
Constituent	Units							
Arochlor 1254	ug/kg							
Arochlor 1260	ug/kg							
Arochlor 1262	ug/kg							
Arochlor 1268	ug/kg							
Aldrin	ug/kg	<5.8	<6.0	<6.4				
Hexachlorobenzene	ug/kg	<7.0	<7.2	<7.7				
Chlordane	ug/kg	<23	<24	210				
BHC(alpha-)	ug/kg	<5.8	<6.0	<6.4				
BHC(beta-)	ug/kg	<5.8	<6.0	<6.4				
BHC(delta-)	ug/kg	<5.8	<6.0	<6.4				
Lindane	ug/kg	<2.3	<2.4	<2.6				
Dieldrin	ug/kg	<4.7	<4.8	<5.1				
Endrin	ug/kg	<9.3	<9.6	<10				
Endrin aldehyde	ug/kg	<9.3	<9.6	<10				
Endrin ketone	ug/kg	<9.3	<9.6	<10				
p,p'-DDT	ug/kg	<4.7	<4.8	<5.1				
Methoxychlor	ug/kg	<58	<60	<64				
p,p'-DDD	ug/kg	<4.7	<4.8	<5.1				
p,p'-DDE	ug/kg	<4.7	<4.8	<5.1				
Heptachlor Epoxide	ug/kg	<5.8	<6.0	39				
Heptachlor	ug/kg	<5.8	<6.0	<6.4				
Endosulfan Sulfate	ug/kg	<9.3	<9.6	<10				
Alpha Endosulfan	ug/kg	<5.8	<6.0	<6.4				
Beta Endosulfan	ug/kg	<9.3	<9.6	<10				
Toxaphene	ug/kg	<120	<120	<130				
Cyanide	mg/kg							
Total Petroleum Hydrocarbons (CT ETPH)	mg/kg							
Acenaphthylene	ug/kg							



**Table 6-3**  
**LABORATORY ANALYTICAL RESULTS FOR SOIL SAMPLES**  
**Former Mystic Oral School for the Deaf**

	Location ID	SS-19	SS-20	SS-21				
	Sample ID	1273789	1273790	1273791				
	Sample Date	01/24/2013	01/24/2013	01/24/2013				
	Sample Time	14:15	14:26	14:45				
	Sample Depth	0' - 0.5'	0' - 0.5'	0' - 0.5'				
	Laboratory	CONT	CONT	CONT				
	Lab. Number	13A0643-04	13A0643-03	13A0643-02				
Constituent	Units							
Benzo[a]anthracene	ug/kg							
Benzo[b]fluoranthene	ug/kg							
Benzo(a)pyrene	ug/kg							
Benzo(g,h,i)perylene	ug/kg							
Benzo(k)fluoranthene	ug/kg							
Chrysene	ug/kg							
Dibenz(a,h)anthracene	ug/kg							
Fluoranthene	ug/kg							
Fluorene	ug/kg							
Indeno(1,2,3-c,d)pyrene	ug/kg							
Naphthalene	ug/kg							
Naphthalene	ug/kg							
Phenanthrene	ug/kg							
Pyrene	ug/kg							
1,2-Dichloropropane	ug/kg							
Acenaphthene	ug/kg							
Acetone	ug/kg							
Acrylonitrile	ug/kg							
Anthracene	ug/kg							
2-Hexanone	ug/kg							
Benzene	ug/kg							
1,2,3-Trichlorobenzene	ug/kg							
1,2,4-Trichlorobenzene	ug/kg							
1,2,4-Trimethylbenzene	ug/kg							
o-Dichlorobenzene	ug/kg							
1,3,5-Trimethylbenzene	ug/kg							
m-Dichlorobenzene	ug/kg							
p-Dichlorobenzene	ug/kg							



**Table 6-3**  
**LABORATORY ANALYTICAL RESULTS FOR SOIL SAMPLES**  
**Former Mystic Oral School for the Deaf**

	Location ID	SS-19	SS-20	SS-21				
	Sample ID	1273789	1273790	1273791				
	Sample Date	01/24/2013	01/24/2013	01/24/2013				
	Sample Time	14:15	14:26	14:45				
	Sample Depth	0' - 0.5'	0' - 0.5'	0' - 0.5'				
	Laboratory	CONT	CONT	CONT				
	Lab. Number	13A0643-04	13A0643-03	13A0643-02				
Constituent	Units							
Bromobenzene	ug/kg							
Butyl Benzene	ug/kg							
Chlorobenzene	ug/kg							
Ethylbenzene	ug/kg							
Isopropylbenzene (Cumene)	ug/kg							
Propylbenzene	ug/kg							
sec-Butylbenzene	ug/kg							
tert-Butylbenzene	ug/kg							
Hexachlorobutadiene	ug/kg							
Methyl Ethyl ketone	ug/kg							
trans-1,4-Dichlorobutene	ug/kg							
Carbon Disulfide	ug/kg							
Carbon Tetrachloride	ug/kg							
4-Isopropyltoluene	ug/kg							
1,1,1,2-Tetrachloroethane	ug/kg							
1,1,1-Trichloroethane	ug/kg							
1,1,2,2-Tetrachloroethane	ug/kg							
1,1,2-Trichloroethane	ug/kg							
1,1,2-Trichlorotrifluoroethane	ug/kg							
1,1-Dichloroethane	ug/kg							
Ethylene Dibromide	ug/kg							
1,2-Dichloroethane	ug/kg							
Chloroethane	ug/kg							
Methyl tert-Butyl ether	ug/kg							
1,1-Dichloroethylene	ug/kg							
trans-1,2-Dichloroethylene	ug/kg							
cis-1,2-Dichloroethylene	ug/kg							
Vinyl Chloride	ug/kg							



**Table 6-3**  
**LABORATORY ANALYTICAL RESULTS FOR SOIL SAMPLES**  
**Former Mystic Oral School for the Deaf**

	Location ID	SS-19	SS-20	SS-21				
	Sample ID	1273789	1273790	1273791				
	Sample Date	01/24/2013	01/24/2013	01/24/2013				
	Sample Time	14:15	14:26	14:45				
	Sample Depth	0' - 0.5'	0' - 0.5'	0' - 0.5'				
	Laboratory	CONT	CONT	CONT				
	Lab. Number	13A0643-04	13A0643-03	13A0643-02				
Constituent	Units							
Tetrachloroethylene	ug/kg							
Tetrahydrofuran	ug/kg							
Bromomethane	ug/kg							
Bromodichloromethane	ug/kg							
Chloromethane	ug/kg							
Chlorodibromomethane	ug/kg							
Methylene Dibromide	ug/kg							
Methylene Chloride	ug/kg							
Dichlorodifluoromethane	ug/kg							
Bromoform	ug/kg							
Chloroform	ug/kg							
Trichlorofluoromethane	ug/kg							
beta-Methylnaphthalene	ug/kg							
Methyl Isobutyl ketone	ug/kg							
1,2,3-Trichloropropane	ug/kg							
1,2-Dibromo-3-Chloropropane	ug/kg							
1,3-Dichloropropane	ug/kg							
sec-Dichloropropane	ug/kg							
1,1-Dichloropropene	ug/kg							
trans-1,3-Dichloropropene	ug/kg							
cis-1,3-Dichloropropene	ug/kg							
Styrene	ug/kg							
Toluene	ug/kg							
o-Chlorotoluene	ug/kg							
p-Chlorotoluene	ug/kg							
Trichloroethylene	ug/kg							
o-Xylene	ug/kg							
Xylenes,m- & p-	ug/kg							



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**Table 6-5**  
**LABORATORY ANALYTICAL RESULTS FOR GROUNDWATER SAMPLES**  
**Former Mystic Oral School for the Deaf**

	Location ID	Boiler Room	Boiler Room	MW-01	MW-01	MW-02	MW-02	MW-03
	Sample ID	1273943	1273943	1273941	1273941	1273940	1273940	1273939
	Sample Date	02/04/2013	02/04/2013	02/04/2013	02/04/2013	02/04/2013	02/04/2013	02/04/2013
	Sample Time	12:30	12:30	15:45	15:45	14:00	14:00	10:55
	Sample Depth			5.00' - 15.00	5.00' - 15.00	5.00' - 10.00	5.00' - 10.00	5.00' - 15.00
	Laboratory	CONT	CONT	CONT	CONT	CONT	CONT	CONT
	Lab. Number	13B0120-05	13B0120-06	13B0120-12	13B0120-13	13B0120-10	13B0120-11	13B0120-01
Constituent	Units							
Date Metals Analyzed	-		02/06/2013		02/06/2013		02/06/2013	
Date Organics Analyzed	-	02/05/2013		02/05/2013		02/05/2013		02/05/2013
Date Physical Analyzed	-	02/07/2013		02/07/2013		02/07/2013		02/07/2013
Date Semivolatile Organics Analyzed	-	02/06/2013		02/06/2013		02/06/2013		02/06/2013
Arsenic (unfiltered)	mg/L		<0.0020		<0.0020		<0.0020	
Barium (unfiltered)	mg/L		<0.05		<0.05		<0.05	
Cadmium (unfiltered)	mg/L		<0.0025		<0.0025		<0.0025	
Chromium, Total (unfiltered)	mg/L		<0.0050		<0.0050		<0.0050	
Copper (unfiltered)	mg/L		0.15		<0.025		<0.025	
Lead (unfiltered)	mg/L		0.012		<0.0050		<0.0050	
Mercury (unfiltered)	mg/L		<0.00010		<0.00010		<0.00010	
Nickel (unfiltered)	mg/L		<0.025		<0.025		<0.025	
Selenium (unfiltered)	mg/L		<0.025		<0.025		<0.025	
Silver (unfiltered)	mg/L		<0.0025		<0.0025		<0.0025	
Zinc (unfiltered)	mg/L		0.054		<0.05		<0.05	
Total Petroleum Hydrocarbons (CT ETPH)	mg/L	0.28		<0.075		<0.075		<0.075
Acenaphthylene	ug/L	<0.30		<0.30		<0.30		<0.30
Benzo[a]anthracene	ug/L	<0.050		<0.050		<0.050		<0.050
Benzo[b]fluoranthene	ug/L	<0.050		<0.050		<0.050		<0.050
Benzo(a)pyrene	ug/L	<0.10		<0.10		<0.10		<0.10
Benzo(g,h,i)perylene	ug/L	<0.50		<0.50		<0.50		<0.50
Benzo(k)fluoranthene	ug/L	<0.20		<0.20		<0.20		<0.20
Chrysene	ug/L	<0.20		<0.20		<0.20		<0.20
Dibenz(a,h)anthracene	ug/L	<0.20		<0.20		<0.20		<0.20
Fluoranthene	ug/L	<0.50		<0.50		<0.50		<0.50
Fluorene	ug/L	<1.0		<1.0		<1.0		<1.0
Indeno(1,2,3-c,d)pyrene	ug/L	<0.20		<0.20		<0.20		<0.20
Naphthalene	ug/L	<2.0		<2.0		<2.0		<2.0



**Table 6-5**  
**LABORATORY ANALYTICAL RESULTS FOR GROUNDWATER SAMPLES**  
**Former Mystic Oral School for the Deaf**

	Location ID	Boiler Room	Boiler Room	MW-01	MW-01	MW-02	MW-02	MW-03
	Sample ID	1273943	1273943	1273941	1273941	1273940	1273940	1273939
	Sample Date	02/04/2013	02/04/2013	02/04/2013	02/04/2013	02/04/2013	02/04/2013	02/04/2013
	Sample Time	12:30	12:30	15:45	15:45	14:00	14:00	10:55
	Sample Depth			5.00' - 15.00	5.00' - 15.00	5.00' - 10.00	5.00' - 10.00	5.00' - 15.00
	Laboratory	CONT	CONT	CONT	CONT	CONT	CONT	CONT
	Lab. Number	13B0120-05	13B0120-06	13B0120-12	13B0120-13	13B0120-10	13B0120-11	13B0120-01
Constituent	Units							
Naphthalene	ug/L	<1.0		<1.0		<1.0		<1.0
Phenanthrene	ug/L	<0.050		<0.050		<0.050		<0.050
Pyrene	ug/L	<1.0		<1.0		<1.0		<1.0
1,2-Dichloropropane	ug/L	<0.50		<0.50		<0.50		<0.50
Acenaphthene	ug/L	<0.30		<0.30		<0.30		<0.30
Acetone	ug/L	<5.0		<5.0		<5.0		<5.0
Acrylonitrile	ug/L	<2.0		<2.0		<2.0		<2.0
Anthracene	ug/L	<0.20		<0.20		<0.20		<0.20
2-Hexanone	ug/L	<5.0		<5.0		<5.0		<5.0
Benzene	ug/L	<0.50		<0.50		<0.50		<0.50
1,2,3-Trichlorobenzene	ug/L	<0.50		<0.50		<0.50		<0.50
1,2,4-Trichlorobenzene	ug/L	<0.50		<0.50		<0.50		<0.50
1,2,4-Trimethylbenzene	ug/L	<0.50		<0.50		<0.50		<0.50
o-Dichlorobenzene	ug/L	<0.50		<0.50		<0.50		<0.50
1,3,5-Trimethylbenzene	ug/L	<0.50		<0.50		<0.50		<0.50
m-Dichlorobenzene	ug/L	<0.50		<0.50		<0.50		<0.50
p-Dichlorobenzene	ug/L	<0.50		<0.50		<0.50		<0.50
Bromobenzene	ug/L	<0.50		<0.50		<0.50		<0.50
Butyl Benzene	ug/L	<1.0		<1.0		<1.0		<1.0
Chlorobenzene	ug/L	<0.50		<0.50		<0.50		<0.50
Ethylbenzene	ug/L	<0.50		<0.50		<0.50		<0.50
Isopropylbenzene (Cumene)	ug/L	<0.50		<0.50		<0.50		<0.50
Propylbenzene	ug/L	<1.0		<1.0		<1.0		<1.0
sec-Butylbenzene	ug/L	<1.0		<1.0		<1.0		<1.0
tert-Butylbenzene	ug/L	<1.0		<1.0		<1.0		<1.0
Hexachlorobutadiene	ug/L	<0.40		<0.40		<0.40		<0.40
Methyl Ethyl ketone	ug/L	<5.0		<5.0		<5.0		<5.0
trans-1,4-Dichlorobutene	ug/L	<2.0		<2.0		<2.0		<2.0



**Table 6-5**  
**LABORATORY ANALYTICAL RESULTS FOR GROUNDWATER SAMPLES**  
**Former Mystic Oral School for the Deaf**

	Location ID	Boiler Room	Boiler Room	MW-01	MW-01	MW-02	MW-02	MW-03
	Sample ID	1273943	1273943	1273941	1273941	1273940	1273940	1273939
	Sample Date	02/04/2013	02/04/2013	02/04/2013	02/04/2013	02/04/2013	02/04/2013	02/04/2013
	Sample Time	12:30	12:30	15:45	15:45	14:00	14:00	10:55
	Sample Depth			5.00' - 15.00	5.00' - 15.00	5.00' - 10.00	5.00' - 10.00	5.00' - 15.00
	Laboratory	CONT	CONT	CONT	CONT	CONT	CONT	CONT
	Lab. Number	13B0120-05	13B0120-06	13B0120-12	13B0120-13	13B0120-10	13B0120-11	13B0120-01
Constituent	Units							
Carbon Disulfide	ug/L	<5.0		<5.0		<5.0		<5.0
Carbon Tetrachloride	ug/L	<0.50		<0.50		<0.50		<0.50
4-Isopropyltoluene	ug/L	<0.50		<0.50		<0.50		<0.50
1,1,1,2-Tetrachloroethane	ug/L	<0.50		<0.50		<0.50		<0.50
1,1,1-Trichloroethane	ug/L	<0.50		<0.50		<0.50		<0.50
1,1,2,2-Tetrachloroethane	ug/L	<0.50		<0.50		<0.50		<0.50
1,1,2-Trichloroethane	ug/L	<0.50		<0.50		<0.50		<0.50
1,1,2-Trichlorotrifluoroethane	ug/L	<0.5		<0.5		<0.5		<0.5
1,1-Dichloroethane	ug/L	<0.50		<0.50		<0.50		<0.50
Ethylene Dibromide	ug/L	<0.50		<0.50		<0.50		<0.50
1,2-Dichloroethane	ug/L	<0.50		<0.50		<0.50		<0.50
Chloroethane	ug/L	<0.50		<0.50		<0.50		<0.50
Methyl tert-Butyl ether	ug/L	<0.50		<0.50		<0.50		<0.50
1,1-Dichloroethylene	ug/L	<0.50		<0.50		<0.50		<0.50
trans-1,2-Dichloroethylene	ug/L	<1.0		<1.0		<1.0		<1.0
cis-1,2-Dichloroethylene	ug/L	<0.50		<0.50		<0.50		<0.50
Vinyl Chloride	ug/L	<1.0		<1.0		<1.0		<1.0
Tetrachloroethylene	ug/L	<1.0		<1.0		<1.0		<1.0
Tetrahydrofuran	ug/L	<10		<10		<10		<10
Bromomethane	ug/L	<5.0		<5.0		<5.0		<5.0
Bromodichloromethane	ug/L	<0.50		<0.50		<0.50		<0.50
Chloromethane	ug/L	<0.50		<0.50		<0.50		<0.50
Chlorodibromomethane	ug/L	<0.50		<0.50		<0.50		<0.50
Methylene Dibromide	ug/L	<0.50		<0.50		<0.50		<0.50
Methylene Chloride	ug/L	<5.0		<5.0		<5.0		<5.0
Dichlorodifluoromethane	ug/L	<0.50		<0.50		<0.50		<0.50
Bromoform	ug/L	<0.50		<0.50		<0.50		<0.50
Chloroform	ug/L	<0.50		<0.50		<0.50		<0.50



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**Table 6-5**  
**LABORATORY ANALYTICAL RESULTS FOR GROUNDWATER SAMPLES**  
**Former Mystic Oral School for the Deaf**

	Location ID	MW-03	MW-03	MW-03				
	Sample ID	1273939	1273942	1273942				
	Sample Date	02/04/2013	02/04/2013	02/04/2013				
	Sample Time	10:55	10:55	10:55				
	Sample Depth	5.00' - 15.00	5.00' - 15.00	5.00' - 15.00				
	Laboratory	CONT	CONT	CONT				
	Lab. Number	13B0120-02	13B0120-03	13B0120-04				
Constituent	Units							
Date Metals Analyzed	-	02/06/2013		02/06/2013				
Date Organics Analyzed	-		02/05/2013					
Date Physical Analyzed	-		02/07/2013					
Date Semivolatile Organics Analyzed	-		02/06/2013					
Arsenic (unfiltered)	mg/L	<0.0020		<0.0020				
Barium (unfiltered)	mg/L	<0.05		<0.05				
Cadmium (unfiltered)	mg/L	<0.0025		<0.0025				
Chromium, Total (unfiltered)	mg/L	<0.0050		<0.0050				
Copper (unfiltered)	mg/L	<0.025		<0.025				
Lead (unfiltered)	mg/L	<0.0050		<0.0050				
Mercury (unfiltered)	mg/L	<0.00010		<0.00010				
Nickel (unfiltered)	mg/L	<0.025		<0.025				
Selenium (unfiltered)	mg/L	<0.025		<0.025				
Silver (unfiltered)	mg/L	<0.0025		<0.0025				
Zinc (unfiltered)	mg/L	<0.05		<0.05				
Total Petroleum Hydrocarbons (CT ETPH)	mg/L		<0.075					
Acenaphthylene	ug/L		<0.30					
Benzo[a]anthracene	ug/L		<0.050					
Benzo[b]fluoranthene	ug/L		<0.050					
Benzo(a)pyrene	ug/L		<0.10					
Benzo(g,h,i)perylene	ug/L		<0.50					
Benzo(k)fluoranthene	ug/L		<0.20					
Chrysene	ug/L		<0.20					
Dibenz(a,h)anthracene	ug/L		<0.20					
Fluoranthene	ug/L		<0.50					
Fluorene	ug/L		<1.0					
Indeno(1,2,3-c,d)pyrene	ug/L		<0.20					
Naphthalene	ug/L		<2.0					



**Table 6-5**  
**LABORATORY ANALYTICAL RESULTS FOR GROUNDWATER SAMPLES**  
**Former Mystic Oral School for the Deaf**

	Location ID	MW-03	MW-03	MW-03				
	Sample ID	1273939	1273942	1273942				
	Sample Date	02/04/2013	02/04/2013	02/04/2013				
	Sample Time	10:55	10:55	10:55				
	Sample Depth	5.00' - 15.00	5.00' - 15.00	5.00' - 15.00				
	Laboratory	CONT	CONT	CONT				
	Lab. Number	13B0120-02	13B0120-03	13B0120-04				
Constituent	Units							
Naphthalene	ug/L		<1.0					
Phenanthrene	ug/L		<0.050					
Pyrene	ug/L		<1.0					
1,2-Dichloropropane	ug/L		<0.50					
Acenaphthene	ug/L		<0.30					
Acetone	ug/L		<5.0					
Acrylonitrile	ug/L		<2.0					
Anthracene	ug/L		<0.20					
2-Hexanone	ug/L		<5.0					
Benzene	ug/L		<0.50					
1,2,3-Trichlorobenzene	ug/L		<0.50					
1,2,4-Trichlorobenzene	ug/L		<0.50					
1,2,4-Trimethylbenzene	ug/L		<0.50					
o-Dichlorobenzene	ug/L		<0.50					
1,3,5-Trimethylbenzene	ug/L		<0.50					
m-Dichlorobenzene	ug/L		<0.50					
p-Dichlorobenzene	ug/L		<0.50					
Bromobenzene	ug/L		<0.50					
Butyl Benzene	ug/L		<1.0					
Chlorobenzene	ug/L		<0.50					
Ethylbenzene	ug/L		<0.50					
Isopropylbenzene (Cumene)	ug/L		<0.50					
Propylbenzene	ug/L		<1.0					
sec-Butylbenzene	ug/L		<1.0					
tert-Butylbenzene	ug/L		<1.0					
Hexachlorobutadiene	ug/L		<0.40					
Methyl Ethyl ketone	ug/L		<5.0					
trans-1,4-Dichlorobutene	ug/L		<2.0					



**Table 6-5**  
**LABORATORY ANALYTICAL RESULTS FOR GROUNDWATER SAMPLES**  
**Former Mystic Oral School for the Deaf**

	Location ID	MW-03	MW-03	MW-03				
	Sample ID	1273939	1273942	1273942				
	Sample Date	02/04/2013	02/04/2013	02/04/2013				
	Sample Time	10:55	10:55	10:55				
	Sample Depth	5.00' - 15.00	5.00' - 15.00	5.00' - 15.00				
	Laboratory	CONT	CONT	CONT				
	Lab. Number	13B0120-02	13B0120-03	13B0120-04				
Constituent	Units							
Carbon Disulfide	ug/L		<5.0					
Carbon Tetrachloride	ug/L		<0.50					
4-Isopropyltoluene	ug/L		<0.50					
1,1,1,2-Tetrachloroethane	ug/L		<0.50					
1,1,1-Trichloroethane	ug/L		<0.50					
1,1,2,2-Tetrachloroethane	ug/L		<0.50					
1,1,2-Trichloroethane	ug/L		<0.50					
1,1,2-Trichlorotrifluoroethane	ug/L		<0.5					
1,1-Dichloroethane	ug/L		<0.50					
Ethylene Dibromide	ug/L		<0.50					
1,2-Dichloroethane	ug/L		<0.50					
Chloroethane	ug/L		<0.50					
Methyl tert-Butyl ether	ug/L		<0.50					
1,1-Dichloroethylene	ug/L		<0.50					
trans-1,2-Dichloroethylene	ug/L		<1.0					
cis-1,2-Dichloroethylene	ug/L		<0.50					
Vinyl Chloride	ug/L		<1.0					
Tetrachloroethylene	ug/L		<1.0					
Tetrahydrofuran	ug/L		<10					
Bromomethane	ug/L		<5.0					
Bromodichloromethane	ug/L		<0.50					
Chloromethane	ug/L		<0.50					
Chlorodibromomethane	ug/L		<0.50					
Methylene Dibromide	ug/L		<0.50					
Methylene Chloride	ug/L		<5.0					
Dichlorodifluoromethane	ug/L		<0.50					
Bromoform	ug/L		<0.50					
Chloroform	ug/L		<0.50					



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**Table 6-6**  
**LABORATORY ANALYTICAL RESULTS FOR QA/QC SAMPLES**  
**Former Mystic Oral School for the Deaf**

	Location ID	EQUIPMENT	EQUIPMENT	EQUIPMENT	EQUIPMENT	EQUIPMENT	EQUIPMENT	EQUIPMENT
	Sample ID	1273935	1273935	1273936	1273934	1273934	1273934	1273934
	Sample Date	01/24/2013	01/24/2013	01/24/2013	01/25/2013	01/25/2013	01/25/2013	01/25/2013
	Sample Time	15:30	15:30	15:30	15:40	15:40	15:40	15:40
	Laboratory	CONT	CONT	CONT	CONT	CONT	CONT	CONT
	Lab. Number	13A0643-55	13A0643-56	13A0643-57	13A0687-28	13A0687-29	13A0687-30	13A0687-31
Constituent	Units							
Date PCBs Analyzed	-	01/29/2013		01/29/2013	01/29/2013		01/29/2013	
Date Metals Analyzed	-		01/28/2013	01/29/2013		01/29/2013		01/29/2013
Date Organics Analyzed	-	01/30/2013		01/30/2013	01/30/2013		01/31/2013	
Date Pesticides/Herbicides Analyzed	-			01/29/2013	01/29/2013		01/29/2013	
Date Physical Analyzed	-	01/29/2013		01/29/2013	01/29/2013		01/29/2013	
Date Semivolatile Organics Analyzed	-	01/29/2013		01/29/2013	01/29/2013		01/29/2013	
Alachlor	ug/L			<0.20	<0.20		<0.20	
2,4,5-Trichlorophenoxyacetic acid	ug/L			<0.10				
2,4-Dichlorophenoxyacetic acid	ug/L			<0.50				
Dicamba	ug/L			<0.050				
Dalapon	ug/L			<1.2				
Silvex	ug/L			<0.050				
Arsenic	mg/L			<0.0020				
Arsenic (unfiltered)	mg/L		<0.0020			<0.0020		<0.0020
Barium	mg/L			<0.05				
Barium (unfiltered)	mg/L		<0.05			<0.05		<0.05
Cadmium	mg/L			<0.0025				
Cadmium (unfiltered)	mg/L		<0.0025			<0.0025		<0.0025
Chromium, Total	mg/L			<0.0050				
Chromium, Total (unfiltered)	mg/L		<0.0050			<0.0050		<0.0050
Copper	mg/L			<0.025				
Copper (unfiltered)	mg/L		<0.025			<0.025		<0.025
Lead	mg/L			<0.0050				
Lead (unfiltered)	mg/L		<0.0050			<0.0050		<0.0050
Mercury	mg/L			<0.00010				
Mercury (unfiltered)	mg/L		<0.00010			<0.00010		<0.00010
Nickel	mg/L			<0.025				
Nickel (unfiltered)	mg/L		<0.025			<0.025		<0.025
Selenium	mg/L			<0.025				



**Table 6-6**  
**LABORATORY ANALYTICAL RESULTS FOR QA/QC SAMPLES**  
**Former Mystic Oral School for the Deaf**



	Location ID	EQUIPMENT	EQUIPMENT	EQUIPMENT	EQUIPMENT	EQUIPMENT	EQUIPMENT	EQUIPMENT
	Sample ID	1273935	1273935	1273936	1273934	1273934	1273934	1273934
	Sample Date	01/24/2013	01/24/2013	01/24/2013	01/25/2013	01/25/2013	01/25/2013	01/25/2013
	Sample Time	15:30	15:30	15:30	15:40	15:40	15:40	15:40
	Laboratory	CONT	CONT	CONT	CONT	CONT	CONT	CONT
	Lab. Number	13A0643-55	13A0643-56	13A0643-57	13A0687-28	13A0687-29	13A0687-30	13A0687-31
Constituent	Units							
Selenium (unfiltered)	mg/L		<0.025			<0.025		<0.025
Silver	mg/L			<0.0025				
Silver (unfiltered)	mg/L		<0.0025			<0.0025		<0.0025
Zinc	mg/L			<0.05				
Zinc (unfiltered)	mg/L		<0.05			<0.05		<0.05
Arochlor 1016	ug/L	<0.20		<0.20	<0.20		<0.20	
Arochlor 1221	ug/L	<0.20		<0.20	<0.20		<0.20	
Arochlor 1232	ug/L	<0.20		<0.20	<0.20		<0.20	
Arochlor 1242	ug/L	<0.20		<0.20	<0.20		<0.20	
Arochlor 1248	ug/L	<0.20		<0.20	<0.20		<0.20	
Arochlor 1254	ug/L	<0.20		<0.20	<0.20		<0.20	
Arochlor 1260	ug/L	<0.20		<0.20	<0.20		<0.20	
Arochlor 1262	ug/L	<0.20		<0.20	<0.20		<0.20	
Arochlor 1268	ug/L	<0.20		<0.20	<0.20		<0.20	
Aldrin	ug/L			<0.050	<0.050		<0.050	
Hexachlorobenzene	ug/L			<0.050	<0.050		<0.050	
Chlordane	ug/L			<0.20	<0.20		<0.20	
BHC(alpha-)	ug/L			<0.050	<0.050		<0.050	
BHC(beta-)	ug/L			<0.050	<0.050		<0.050	
BHC(delta-)	ug/L			<0.050	<0.050		<0.050	
Lindane	ug/L			<0.030	<0.030		<0.030	
Dieldrin	ug/L			<0.0020	<0.0020		<0.0020	
Endrin	ug/L			<0.080	<0.080		<0.080	
Endrin aldehyde	ug/L			<0.080	<0.080		<0.080	
Endrin ketone	ug/L			<0.080	<0.080		<0.080	
p,p'-DDT	ug/L			<0.040	<0.040		<0.040	
Methoxychlor	ug/L			<0.50	<0.50		<0.50	
p,p'-DDD	ug/L			<0.040	<0.040		<0.040	
p,p'-DDE	ug/L			<0.040	<0.040		<0.040	



**Table 6-6**  
**LABORATORY ANALYTICAL RESULTS FOR QA/QC SAMPLES**  
**Former Mystic Oral School for the Deaf**



	Location ID	EQUIPMENT	EQUIPMENT	EQUIPMENT	EQUIPMENT	EQUIPMENT	EQUIPMENT	EQUIPMENT
	Sample ID	1273935	1273935	1273936	1273934	1273934	1273934	1273934
	Sample Date	01/24/2013	01/24/2013	01/24/2013	01/25/2013	01/25/2013	01/25/2013	01/25/2013
	Sample Time	15:30	15:30	15:30	15:40	15:40	15:40	15:40
	Laboratory	CONT	CONT	CONT	CONT	CONT	CONT	CONT
	Lab. Number	13A0643-55	13A0643-56	13A0643-57	13A0687-28	13A0687-29	13A0687-30	13A0687-31
Constituent	Units							
Heptachlor Epoxide	ug/L			<0.050	<0.050		<0.050	
Heptachlor	ug/L			<0.050	<0.050		<0.050	
Endosulfan Sulfate	ug/L			<0.080	<0.080		<0.080	
Alpha Endosulfan	ug/L			<0.050	<0.050		<0.050	
Beta Endosulfan	ug/L			<0.080	<0.080		<0.080	
Toxaphene	ug/L			<1.0	<1.0		<1.0	
Cyanide	mg/L							
Total Petroleum Hydrocarbons (CT ETPH)	mg/L	<0.075		<0.081	<0.075		<0.075	
Acenaphthylene	ug/L	<0.30		<0.30	<0.30		<0.33	
Benzo[a]anthracene	ug/L	<0.050		<0.050	<0.050		<0.054	
Benzo[b]fluoranthene	ug/L	<0.050		<0.050	<0.050		<0.054	
Benzo(a)pyrene	ug/L	<0.10		<0.10	<0.10		<0.11	
Benzo(g,h,i)perylene	ug/L	<0.50		<0.50	<0.50		<0.54	
Benzo(k)fluoranthene	ug/L	<0.20		<0.20	<0.20		<0.22	
Chrysene	ug/L	<0.20		<0.20	<0.20		<0.22	
Dibenz(a,h)anthracene	ug/L	<0.20		<0.20	<0.20		<0.22	
Fluoranthene	ug/L	<0.50		<0.50	<0.50		<0.54	
Fluorene	ug/L	<1.0		<1.0	<1.0		<1.1	
Indeno(1,2,3-c,d)pyrene	ug/L	<0.20		<0.20	<0.20		<0.22	
Naphthalene	ug/kg	<2.0		<2.0	<2.0		<2.0	
Naphthalene	ug/L	<1.0		<1.0	<1.0		<1.1	
Phenanthrene	ug/L	<0.050		<0.050	<0.050		<0.054	
Pyrene	ug/L	<1.0		<1.0	<1.0		<1.1	
1,2-Dichloropropane	ug/kg	<0.50		<0.50	<0.50		<0.50	
Acenaphthene	ug/L	<0.30		<0.30	<0.30		<0.33	
Acetone	ug/kg	<5.0		<5.0	<5.0		<5.0	
Acrylonitrile	ug/kg	<2.0		<2.0	<2.0		<2.0	
Anthracene	ug/L	<0.20		<0.20	<0.20		<0.22	
2-Hexanone	ug/kg	<5.0		<5.0	<5.0		<5.0	



**Table 6-6**  
**LABORATORY ANALYTICAL RESULTS FOR QA/QC SAMPLES**  
**Former Mystic Oral School for the Deaf**



	Location ID	EQUIPMENT	EQUIPMENT	EQUIPMENT	EQUIPMENT	EQUIPMENT	EQUIPMENT	EQUIPMENT
	Sample ID	1273935	1273935	1273936	1273934	1273934	1273934	1273934
	Sample Date	01/24/2013	01/24/2013	01/24/2013	01/25/2013	01/25/2013	01/25/2013	01/25/2013
	Sample Time	15:30	15:30	15:30	15:40	15:40	15:40	15:40
	Laboratory	CONT	CONT	CONT	CONT	CONT	CONT	CONT
	Lab. Number	13A0643-55	13A0643-56	13A0643-57	13A0687-28	13A0687-29	13A0687-30	13A0687-31
Constituent	Units							
Benzene	ug/kg	<0.50		<0.50	<0.50		<0.50	
1,2,3-Trichlorobenzene	ug/kg	<1.0		<1.0	<1.0		<1.0	
1,2,4-Trichlorobenzene	ug/kg	<0.50		<0.50	<0.50		<0.50	
1,2,4-Trimethylbenzene	ug/kg	<0.50		<0.50	<0.50		<0.50	
o-Dichlorobenzene	ug/kg	<0.50		<0.50	<0.50		<0.50	
1,3,5-Trimethylbenzene	ug/kg	<0.50		<0.50	<0.50		<0.50	
m-Dichlorobenzene	ug/kg	<0.50		<0.50	<0.50		<0.50	
p-Dichlorobenzene	ug/kg	<0.50		<0.50	<0.50		<0.50	
Bromobenzene	ug/kg	<0.50		<0.50	<0.50		<0.50	
Butyl Benzene	ug/kg	<1.0		<1.0	<1.0		<1.0	
Chlorobenzene	ug/kg	<0.50		<0.50	<0.50		<0.50	
Ethylbenzene	ug/kg	<0.50		<0.50	<0.50		<0.50	
Isopropylbenzene (Cumene)	ug/kg	<0.50		<0.50	<0.50		<0.50	
Propylbenzene	ug/kg	<1.0		<1.0	<1.0		<1.0	
sec-Butylbenzene	ug/kg	<1.0		<1.0	<1.0		<1.0	
tert-Butylbenzene	ug/kg	<1.0		<1.0	<1.0		<1.0	
Hexachlorobutadiene	ug/kg	<0.50		<0.50	<0.40		<0.40	
Methyl Ethyl ketone	ug/kg	<5.0		<5.0	<5.0		<5.0	
trans-1,4-Dichlorobutene	ug/kg	<2.0		<2.0	<2.0		<2.0	
Carbon Disulfide	ug/kg	<5.0		<5.0	<5.0		<5.0	
Carbon Tetrachloride	ug/kg	<0.50		<0.50	<0.50		<0.50	
4-Isopropyltoluene	ug/kg	<0.50		<0.50	<0.50		<0.50	
1,1,1,2-Tetrachloroethane	ug/kg	<1.0		<1.0	<1.0		<1.0	
1,1,1-Trichloroethane	ug/kg	<1.0		<1.0	<1.0		<1.0	
1,1,2,2-Tetrachloroethane	ug/kg	<0.50		<0.50	<0.50		<0.50	
1,1,2-Trichloroethane	ug/kg	<0.50		<0.50	<0.50		<0.50	
1,1,2-Trichlorotrifluoroethane	ug/kg	<0.50		<0.50	<0.50		<0.50	
1,1-Dichloroethane	ug/kg	<0.50		<0.50	<0.50		<0.50	
Ethylene Dibromide	ug/kg	<1.0		<1.0	<1.0		<1.0	



**Table 6-6**  
**LABORATORY ANALYTICAL RESULTS FOR QA/QC SAMPLES**  
**Former Mystic Oral School for the Deaf**

	Location ID	EQUIPMENT	EQUIPMENT	EQUIPMENT	EQUIPMENT	EQUIPMENT	EQUIPMENT	EQUIPMENT
	Sample ID	1273935	1273935	1273936	1273934	1273934	1273934	1273934
	Sample Date	01/24/2013	01/24/2013	01/24/2013	01/25/2013	01/25/2013	01/25/2013	01/25/2013
	Sample Time	15:30	15:30	15:30	15:40	15:40	15:40	15:40
	Laboratory	CONT	CONT	CONT	CONT	CONT	CONT	CONT
	Lab. Number	13A0643-55	13A0643-56	13A0643-57	13A0687-28	13A0687-29	13A0687-30	13A0687-31
Constituent	Units							
1,2-Dichloroethane	ug/kg	<0.50		<0.50	<0.50		<0.50	
Chloroethane	ug/kg	<0.50		<0.50	<0.50		<0.50	
Methyl tert-Butyl ether	ug/kg	<0.50		<0.50	<0.50		<0.50	
1,1-Dichloroethylene	ug/kg	<0.50		<0.50	<0.50		<0.50	
trans-1,2-Dichloroethylene	ug/kg	<1.0		<1.0	<1.0		<1.0	
cis-1,2-Dichloroethylene	ug/kg	<0.50		<0.50	<0.50		<0.50	
Vinyl Chloride	ug/kg	<1.0		<1.0	<1.0		<1.0	
Tetrachloroethylene	ug/kg	<1.0		<1.0	<1.0		<1.0	
Tetrahydrofuran	ug/kg	<10		<10	<10		<10	
Bromomethane	ug/kg	<0.50		<0.50	<0.50		<0.50	
Bromodichloromethane	ug/kg	<2.0		<2.0	<2.0		<2.0	
Chloromethane	ug/kg	<0.50		<0.50	<0.50		<0.50	
Chlorodibromomethane	ug/kg	<0.50		<0.50	<0.50		<0.50	
Methylene Dibromide	ug/kg	<0.50		<0.50	<0.50		<0.50	
Methylene Chloride	ug/kg	<5.0		<5.0	<5.0		<5.0	
Dichlorodifluoromethane	ug/kg	<0.50		<0.50	<0.50		<0.50	
Bromoform	ug/kg	<0.50		<0.50	<0.50		<0.50	
Chloroform	ug/kg	<0.50		<0.50	<0.50		<0.50	
Trichlorofluoromethane	ug/kg	<2.0		<2.0	<2.0		<2.0	
beta-Methylnaphthalene	ug/L	<1.0		<1.0	<1.0		<1.1	
Methyl Isobutyl ketone	ug/kg	<5.0		<5.0	<5.0		<5.0	
1,2,3-Trichloropropane	ug/kg	<0.50		<0.50	<0.50		<0.50	
1,2-Dibromo-3-Chloropropane	ug/kg	<1.0		<1.0	<1.0		<1.0	
1,3-Dichloropropane	ug/kg	<0.50		<0.50	<0.50		<0.50	
sec-Dichloropropane	ug/kg	<0.50		<0.50	<0.50		<0.50	
1,1-Dichloropropene	ug/kg	<0.50		<0.50	<0.50		<0.50	
trans-1,3-Dichloropropene	ug/kg	<0.50		<0.50	<0.50		<0.50	
cis-1,3-Dichloropropene	ug/kg	<0.50		<0.50	<0.50		<0.50	
Styrene	ug/kg	<1.0		<1.0	<1.0		<1.0	



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**Table 6-6**  
**LABORATORY ANALYTICAL RESULTS FOR QA/QC SAMPLES**  
**Former Mystic Oral School for the Deaf**

	Location ID	EQUIPMENT	EQUIPMENT	EQUIPMENT	EQUIPMENT	EQUIPMENT	EQUIPMENT	TRIP BLANK
	Sample ID	1273929	1273930	1273930	1273930	1273927	1273926	1273937
	Sample Date	01/28/2013	01/28/2013	01/28/2013	01/28/2013	01/29/2013	01/30/2013	01/24/2013
	Sample Time	15:00	15:30	15:30	15:30	15:00	00:00	09:40
	Laboratory	CONT	CONT	CONT	CONT	CONT	CONT	CONT
	Lab. Number	13A0744-35	13A0744-02	13A0744-02RE1	13A0744-03	13A0745-12	13A0792-05	13A0643-01
Constituent	Units							
Date PCBs Analyzed	-		02/04/2013			02/04/2013		
Date Metals Analyzed	-				02/01/2013			
Date Organics Analyzed	-	01/31/2013	01/31/2013			01/31/2013	02/01/2013	01/29/2013
Date Pesticides/Herbicides Analyzed	-							
Date Physical Analyzed	-	02/05/2013	02/05/2013			02/05/2013	02/05/2013	
Date Semivolatile Organics Analyzed	-	02/04/2013	02/04/2013	02/06/2013		02/04/2013	02/04/2013	
Alachlor	ug/L							
2,4,5-Trichlorophenoxyacetic acid	ug/L							
2,4-Dichlorophenoxyacetic acid	ug/L							
Dicamba	ug/L							
Dalapon	ug/L							
Silvex	ug/L							
Arsenic	mg/L							
Arsenic (unfiltered)	mg/L				<0.0020			
Barium	mg/L							
Barium (unfiltered)	mg/L				<0.05			
Cadmium	mg/L							
Cadmium (unfiltered)	mg/L				<0.0025			
Chromium, Total	mg/L							
Chromium, Total (unfiltered)	mg/L				<0.0050			
Copper	mg/L							
Copper (unfiltered)	mg/L				<0.025			
Lead	mg/L							
Lead (unfiltered)	mg/L				<0.0050			
Mercury	mg/L							
Mercury (unfiltered)	mg/L				<0.00010			
Nickel	mg/L							
Nickel (unfiltered)	mg/L				<0.025			
Selenium	mg/L							



**Table 6-6**  
**LABORATORY ANALYTICAL RESULTS FOR QA/QC SAMPLES**  
**Former Mystic Oral School for the Deaf**

	Location ID	EQUIPMENT	EQUIPMENT	EQUIPMENT	EQUIPMENT	EQUIPMENT	EQUIPMENT	TRIP BLANK
	Sample ID	1273929	1273930	1273930	1273930	1273927	1273926	1273937
	Sample Date	01/28/2013	01/28/2013	01/28/2013	01/28/2013	01/29/2013	01/30/2013	01/24/2013
	Sample Time	15:00	15:30	15:30	15:30	15:00	00:00	09:40
	Laboratory	CONT	CONT	CONT	CONT	CONT	CONT	CONT
	Lab. Number	13A0744-35	13A0744-02	13A0744-02RE1	13A0744-03	13A0745-12	13A0792-05	13A0643-01
Constituent	Units							
Selenium (unfiltered)	mg/L				<0.025			
Silver	mg/L							
Silver (unfiltered)	mg/L				<0.0025			
Zinc	mg/L							
Zinc (unfiltered)	mg/L				<0.05			
Arochlor 1016	ug/L		<0.20			<0.20		
Arochlor 1221	ug/L		<0.20			<0.20		
Arochlor 1232	ug/L		<0.20			<0.20		
Arochlor 1242	ug/L		<0.20			<0.20		
Arochlor 1248	ug/L		<0.20			<0.20		
Arochlor 1254	ug/L		<0.20			<0.20		
Arochlor 1260	ug/L		<0.20			<0.20		
Arochlor 1262	ug/L		<0.20			<0.20		
Arochlor 1268	ug/L		<0.20			<0.20		
Aldrin	ug/L							
Hexachlorobenzene	ug/L							
Chlordane	ug/L							
BHC(alpha-)	ug/L							
BHC(beta-)	ug/L							
BHC(delta-)	ug/L							
Lindane	ug/L							
Dieldrin	ug/L							
Endrin	ug/L							
Endrin aldehyde	ug/L							
Endrin ketone	ug/L							
p,p'-DDT	ug/L							
Methoxychlor	ug/L							
p,p'-DDD	ug/L							
p,p'-DDE	ug/L							



**Table 6-6**  
**LABORATORY ANALYTICAL RESULTS FOR QA/QC SAMPLES**  
**Former Mystic Oral School for the Deaf**

	Location ID	EQUIPMENT	EQUIPMENT	EQUIPMENT	EQUIPMENT	EQUIPMENT	EQUIPMENT	TRIP BLANK
	Sample ID	1273929	1273930	1273930	1273930	1273927	1273926	1273937
	Sample Date	01/28/2013	01/28/2013	01/28/2013	01/28/2013	01/29/2013	01/30/2013	01/24/2013
	Sample Time	15:00	15:30	15:30	15:30	15:00	00:00	09:40
	Laboratory	CONT	CONT	CONT	CONT	CONT	CONT	CONT
	Lab. Number	13A0744-35	13A0744-02	13A0744-02RE1	13A0744-03	13A0745-12	13A0792-05	13A0643-01
Constituent	Units							
Heptachlor Epoxide	ug/L							
Heptachlor	ug/L							
Endosulfan Sulfate	ug/L							
Alpha Endosulfan	ug/L							
Beta Endosulfan	ug/L							
Toxaphene	ug/L							
Cyanide	mg/L		<0.010					
Total Petroleum Hydrocarbons (CT ETPH)	mg/L	<0.075	<0.075			<0.075	<0.075	
Acenaphthylene	ug/L	<0.30	<0.30	<0.30		<0.30	<0.30	
Benzo[a]anthracene	ug/L	<0.050	<0.050	<0.050		<0.050	<0.050	
Benzo[b]fluoranthene	ug/L	<0.050	<0.050	<0.050		<0.050	<0.050	
Benzo(a)pyrene	ug/L	<0.10	<0.10	<0.10		<0.10	<0.10	
Benzo(g,h,i)perylene	ug/L	<0.50	<0.50	<0.50		<0.50	<0.50	
Benzo(k)fluoranthene	ug/L	<0.20	<0.20	<0.20		<0.20	<0.20	
Chrysene	ug/L	<0.20	<0.20	<0.20		<0.2	<0.20	
Dibenz(a,h)anthracene	ug/L	<0.20	<0.20	<0.20		<0.20		
Fluoranthene	ug/L	<0.50	<0.50	<0.50		<0.50	<0.50	
Fluorene	ug/L	<1.0	<1.0	<1.0		<1.0	<1.0	
Indeno(1,2,3-c,d)pyrene	ug/L	<0.20	<0.20	<0.20		<0.20	<0.20	
Naphthalene	ug/kg	<2.0	<2.0			<2.0	<2.0	<4.0
Naphthalene	ug/L	<1.0	<1.0	<1.0		<1.0	<1.0	
Phenanthrene	ug/L	<0.050	0.17	<0.050		<0.050	<0.050	
Pyrene	ug/L	<1.0	<1.0	<1.0		<1.0	<1.0	
1,2-Dichloropropane	ug/kg	<0.50	<0.50			<0.50	<0.50	<2.0
Acenaphthene	ug/L	<0.30	<0.30	<0.30		<0.30	<0.30	
Acetone	ug/kg	<5.0	5.8			<5.0	<5.0	<100
Acrylonitrile	ug/kg	<2.0	<2.0			<2.0	<2.0	<6.0
Anthracene	ug/L	<0.20	<0.20	<0.20		<0.20	<0.20	
2-Hexanone	ug/kg	<5.0	<5.0			<5.0	<5.0	<20



**Table 6-6**  
**LABORATORY ANALYTICAL RESULTS FOR QA/QC SAMPLES**  
**Former Mystic Oral School for the Deaf**



	Location ID	EQUIPMENT	EQUIPMENT	EQUIPMENT	EQUIPMENT	EQUIPMENT	EQUIPMENT	TRIP BLANK
	Sample ID	1273929	1273930	1273930	1273930	1273927	1273926	1273937
	Sample Date	01/28/2013	01/28/2013	01/28/2013	01/28/2013	01/29/2013	01/30/2013	01/24/2013
	Sample Time	15:00	15:30	15:30	15:30	15:00	00:00	09:40
	Laboratory	CONT	CONT	CONT	CONT	CONT	CONT	CONT
	Lab. Number	13A0744-35	13A0744-02	13A0744-02RE1	13A0744-03	13A0745-12	13A0792-05	13A0643-01
Constituent	Units							
Benzene	ug/kg	<0.50	<0.50			<0.50	<0.50	<2.0
1,2,3-Trichlorobenzene	ug/kg	<1.0	<1.0			<1.0	<0.50	<2.0
1,2,4-Trichlorobenzene	ug/kg	<0.50	<0.50			<0.50	<0.50	<2.0
1,2,4-Trimethylbenzene	ug/kg	<0.50	<0.50			<0.50	<0.50	<2.0
o-Dichlorobenzene	ug/kg	<0.50	<0.50			<0.50	<0.50	<2.0
1,3,5-Trimethylbenzene	ug/kg	<0.50	<0.50			<0.50	<0.50	<2.0
m-Dichlorobenzene	ug/kg	<0.50	<0.50			<0.50	<0.50	<2.0
p-Dichlorobenzene	ug/kg	<0.50	<0.50			<0.50	<0.50	<2.0
Bromobenzene	ug/kg	<0.50	<0.50			<0.50	<0.50	<2.0
Butyl Benzene	ug/kg	<1.0	<1.0			<1.0	<1.0	<2.0
Chlorobenzene	ug/kg	<0.50	<0.50			<0.50	<0.50	<2.0
Ethylbenzene	ug/kg	<0.50	<0.50			<0.50	<0.50	<2.0
Isopropylbenzene (Cumene)	ug/kg	<0.50	<0.50			<0.50	<0.50	<2.0
Propylbenzene	ug/kg	<1.0	<1.0			<1.0	<1.0	<2.0
sec-Butylbenzene	ug/kg	<1.0	<1.0			<1.0	<1.0	<2.0
tert-Butylbenzene	ug/kg	<1.0	<1.0			<1.0	<1.0	<2.0
Hexachlorobutadiene	ug/kg	<0.50	<0.50			<0.50	<0.40	<2.0
Methyl Ethyl ketone	ug/kg	<5.0	<5.0			<5.0	<10	<40
trans-1,4-Dichlorobutene	ug/kg	<2.0	<2.0			<2.0	<2.0	<4.0
Carbon Disulfide	ug/kg	<5.0	<5.0			<5.0	<5.0	<6.0
Carbon Tetrachloride	ug/kg	<0.50	<0.50			<0.50	<0.50	<2.0
4-Isopropyltoluene	ug/kg	<0.50	<0.50			<0.50	<0.50	<2.0
1,1,1,2-Tetrachloroethane	ug/kg	<1.0	<1.0			<1.0	<0.50	<2.0
1,1,1-Trichloroethane	ug/kg	<1.0	<1.0			<1.0	<0.50	<2.0
1,1,2,2-Tetrachloroethane	ug/kg	<0.50	<0.50			<0.50	<0.50	<1.0
1,1,2-Trichloroethane	ug/kg	<0.50	<0.50			<0.50	<0.50	<2.0
1,1,2-Trichlorotrifluoroethane	ug/kg	<0.5	<0.5			<0.5	<0.5	<10
1,1-Dichloroethane	ug/kg	<0.50	<0.50			<0.50	<0.50	<2.0
Ethylene Dibromide	ug/kg	<1.0	<1.0			<1.0	<0.50	<1.0



**Table 6-6**  
**LABORATORY ANALYTICAL RESULTS FOR QA/QC SAMPLES**  
**Former Mystic Oral School for the Deaf**

	Location ID	EQUIPMENT	EQUIPMENT	EQUIPMENT	EQUIPMENT	EQUIPMENT	EQUIPMENT	TRIP BLANK
	Sample ID	1273929	1273930	1273930	1273930	1273927	1273926	1273937
	Sample Date	01/28/2013	01/28/2013	01/28/2013	01/28/2013	01/29/2013	01/30/2013	01/24/2013
	Sample Time	15:00	15:30	15:30	15:30	15:00	00:00	09:40
	Laboratory	CONT	CONT	CONT	CONT	CONT	CONT	CONT
	Lab. Number	13A0744-35	13A0744-02	13A0744-02RE1	13A0744-03	13A0745-12	13A0792-05	13A0643-01
Constituent	Units							
1,2-Dichloroethane	ug/kg	<0.50	<0.50			<0.50	<0.50	<2.0
Chloroethane	ug/kg	<0.50	<0.50			<0.50	<0.50	<20
Methyl tert-Butyl ether	ug/kg	<0.50	<0.50			<0.50	<0.50	<4.0
1,1-Dichloroethylene	ug/kg	<0.50	<0.50			<0.50	<0.50	<4.0
trans-1,2-Dichloroethylene	ug/kg	<1.0	<1.0			<1.0	<1.0	<2.0
cis-1,2-Dichloroethylene	ug/kg	<0.50	<0.50			<0.50	<0.50	<2.0
Vinyl Chloride	ug/kg	<1.0	<1.0			<1.0	<1.0	<10
Tetrachloroethylene	ug/kg	<1.0	<1.0			<1.0	<1.0	<2.0
Tetrahydrofuran	ug/kg	<10	<10			<10	<10	<10
Bromomethane	ug/kg	<0.50	<0.50			<0.50	<5.0	<10
Bromodichloromethane	ug/kg	<2.0	<2.0			<2.0	<0.50	<2.0
Chloromethane	ug/kg	<0.50	<0.50			<0.50	<0.50	<10
Chlorodibromomethane	ug/kg	<0.50	<0.50			<0.50	<0.50	<1.0
Methylene Dibromide	ug/kg	<0.50	<0.50			<0.50	<0.50	<2.0
Methylene Chloride	ug/kg	<5.0	<5.0			<5.0	<5.0	<20
Dichlorodifluoromethane	ug/kg	<0.50	<0.50			<0.50	<0.50	<20
Bromoform	ug/kg	<0.50	<0.50			<0.50	<0.50	<2.0
Chloroform	ug/kg	<0.50	<0.50			<0.50	<0.50	<4.0
Trichlorofluoromethane	ug/kg	<2.0	<2.0			<2.0	<2.0	<10
beta-Methylnaphthalene	ug/L	<1.0	<1.0	<1.0		<1.0	<1.0	
Methyl Isobutyl ketone	ug/kg	<5.0	<5.0			<5.0	<5.0	<20
1,2,3-Trichloropropane	ug/kg	<0.50	<0.50			<0.50	<0.50	<2.0
1,2-Dibromo-3-Chloropropane	ug/kg	<1.0	<1.0			<1.0	<0.50	<2.0
1,3-Dichloropropane	ug/kg	<0.50	<0.50			<0.50	<0.50	<1.0
sec-Dichloropropane	ug/kg	<0.50	<0.50			<0.50	<0.50	<2.0
1,1-Dichloropropene	ug/kg	<0.50	<0.50			<0.50	<0.50	<2.0
trans-1,3-Dichloropropene	ug/kg	<0.50	<0.50			<0.50	<0.50	<1.0
cis-1,3-Dichloropropene	ug/kg	<0.50	<0.50			<0.50	<0.50	<1.0
Styrene	ug/kg	<1.0	<1.0			<1.0	<1.0	<2.0



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**Table 6-6**  
**LABORATORY ANALYTICAL RESULTS FOR QA/QC SAMPLES**  
**Former Mystic Oral School for the Deaf**

	Location ID	TRIP BLANK	TRIP BLANK	TRIP BLANK				
	Sample ID	1273931	1273932	1273874				
	Sample Date	01/25/2013	01/28/2013	01/30/2013				
	Sample Time	09:30	09:30	00:00				
	Laboratory	CONT	CONT	CONT				
	Lab. Number	13A0687-27	13A0744-01	13A0792-04				
Constituent	Units							
Date PCBs Analyzed	-							
Date Metals Analyzed	-							
Date Organics Analyzed	-	01/31/2013	01/31/2013	02/05/2013				
Date Pesticides/Herbicides Analyzed	-							
Date Physical Analyzed	-							
Date Semivolatile Organics Analyzed	-							
Alachlor	ug/L							
2,4,5-Trichlorophenoxyacetic acid	ug/L							
2,4-Dichlorophenoxyacetic acid	ug/L							
Dicamba	ug/L							
Dalapon	ug/L							
Silvex	ug/L							
Arsenic	mg/L							
Arsenic (unfiltered)	mg/L							
Barium	mg/L							
Barium (unfiltered)	mg/L							
Cadmium	mg/L							
Cadmium (unfiltered)	mg/L							
Chromium, Total	mg/L							
Chromium, Total (unfiltered)	mg/L							
Copper	mg/L							
Copper (unfiltered)	mg/L							
Lead	mg/L							
Lead (unfiltered)	mg/L							
Mercury	mg/L							
Mercury (unfiltered)	mg/L							
Nickel	mg/L							
Nickel (unfiltered)	mg/L							
Selenium	mg/L							



**Table 6-6**  
**LABORATORY ANALYTICAL RESULTS FOR QA/QC SAMPLES**  
**Former Mystic Oral School for the Deaf**

	Location ID	TRIP BLANK	TRIP BLANK	TRIP BLANK				
	Sample ID	1273931	1273932	1273874				
	Sample Date	01/25/2013	01/28/2013	01/30/2013				
	Sample Time	09:30	09:30	00:00				
	Laboratory	CONT	CONT	CONT				
	Lab. Number	13A0687-27	13A0744-01	13A0792-04				
Constituent	Units							
Selenium (unfiltered)	mg/L							
Silver	mg/L							
Silver (unfiltered)	mg/L							
Zinc	mg/L							
Zinc (unfiltered)	mg/L							
Arochlor 1016	ug/L							
Arochlor 1221	ug/L							
Arochlor 1232	ug/L							
Arochlor 1242	ug/L							
Arochlor 1248	ug/L							
Arochlor 1254	ug/L							
Arochlor 1260	ug/L							
Arochlor 1262	ug/L							
Arochlor 1268	ug/L							
Aldrin	ug/L							
Hexachlorobenzene	ug/L							
Chlordane	ug/L							
BHC(alpha-)	ug/L							
BHC(beta-)	ug/L							
BHC(delta-)	ug/L							
Lindane	ug/L							
Dieldrin	ug/L							
Endrin	ug/L							
Endrin aldehyde	ug/L							
Endrin ketone	ug/L							
p,p'-DDT	ug/L							
Methoxychlor	ug/L							
p,p'-DDD	ug/L							
p,p'-DDE	ug/L							



**Table 6-6**  
**LABORATORY ANALYTICAL RESULTS FOR QA/QC SAMPLES**  
**Former Mystic Oral School for the Deaf**

	Location ID	TRIP BLANK	TRIP BLANK	TRIP BLANK				
	Sample ID	1273931	1273932	1273874				
	Sample Date	01/25/2013	01/28/2013	01/30/2013				
	Sample Time	09:30	09:30	00:00				
	Laboratory	CONT	CONT	CONT				
	Lab. Number	13A0687-27	13A0744-01	13A0792-04				
Constituent	Units							
Heptachlor Epoxide	ug/L							
Heptachlor	ug/L							
Endosulfan Sulfate	ug/L							
Alpha Endosulfan	ug/L							
Beta Endosulfan	ug/L							
Toxaphene	ug/L							
Cyanide	mg/L							
Total Petroleum Hydrocarbons (CT ETPH)	mg/L							
Acenaphthylene	ug/L							
Benzo[a]anthracene	ug/L							
Benzo[b]fluoranthene	ug/L							
Benzo(a)pyrene	ug/L							
Benzo(g,h,i)perylene	ug/L							
Benzo(k)fluoranthene	ug/L							
Chrysene	ug/L							
Dibenz(a,h)anthracene	ug/L							
Fluoranthene	ug/L							
Fluorene	ug/L							
Indeno(1,2,3-c,d)pyrene	ug/L							
Naphthalene	ug/kg	<4.0	<4.0	<4.0				
Naphthalene	ug/L							
Phenanthrene	ug/L							
Pyrene	ug/L							
1,2-Dichloropropane	ug/kg	<2.0	<2.0	<2.0				
Acenaphthene	ug/L							
Acetone	ug/kg	<100	<100	<100				
Acrylonitrile	ug/kg	<6.0	<6.0	<6.0				
Anthracene	ug/L							
2-Hexanone	ug/kg	<20	<20	<20				



**Table 6-6**  
**LABORATORY ANALYTICAL RESULTS FOR QA/QC SAMPLES**  
**Former Mystic Oral School for the Deaf**

	Location ID	TRIP BLANK	TRIP BLANK	TRIP BLANK				
	Sample ID	1273931	1273932	1273874				
	Sample Date	01/25/2013	01/28/2013	01/30/2013				
	Sample Time	09:30	09:30	00:00				
	Laboratory	CONT	CONT	CONT				
	Lab. Number	13A0687-27	13A0744-01	13A0792-04				
Constituent	Units							
Benzene	ug/kg	<2.0	<2.0	<2.0				
1,2,3-Trichlorobenzene	ug/kg	<2.0	<2.0	<2.0				
1,2,4-Trichlorobenzene	ug/kg	<2.0	<2.0	<2.0				
1,2,4-Trimethylbenzene	ug/kg	<2.0	<2.0	<2.0				
o-Dichlorobenzene	ug/kg	<2.0	<2.0	<2.0				
1,3,5-Trimethylbenzene	ug/kg	<2.0	<2.0	<2.0				
m-Dichlorobenzene	ug/kg	<2.0	<2.0	<2.0				
p-Dichlorobenzene	ug/kg	<2.0	<2.0	<2.0				
Bromobenzene	ug/kg	<2.0	<2.0	<2.0				
Butyl Benzene	ug/kg	<2.0	<2.0	<2.0				
Chlorobenzene	ug/kg	<2.0	<2.0	<2.0				
Ethylbenzene	ug/kg	<2.0	<2.0	<2.0				
Isopropylbenzene (Cumene)	ug/kg	<2.0	<2.0	<2.0				
Propylbenzene	ug/kg	<2.0	<2.0	<2.0				
sec-Butylbenzene	ug/kg	<2.0	<2.0	<2.0				
tert-Butylbenzene	ug/kg	<2.0	<2.0	<2.0				
Hexachlorobutadiene	ug/kg	<2.0	<2.0	<2.0				
Methyl Ethyl ketone	ug/kg	<40	<40	<40				
trans-1,4-Dichlorobutene	ug/kg	<4.0	<4.0	<4.0				
Carbon Disulfide	ug/kg	<6.0	<6.0	<6.0				
Carbon Tetrachloride	ug/kg	<2.0	<2.0	<2.0				
4-Isopropyltoluene	ug/kg	<2.0	<2.0	<2.0				
1,1,1,2-Tetrachloroethane	ug/kg	<2.0	<2.0	<2.0				
1,1,1-Trichloroethane	ug/kg	<2.0	<2.0	<2.0				
1,1,2,2-Tetrachloroethane	ug/kg	<1.0	<1.0	<1.0				
1,1,2-Trichloroethane	ug/kg	<2.0	<2.0	<2.0				
1,1,2-Trichlorotrifluoroethane	ug/kg	<10	<10	<10				
1,1-Dichloroethane	ug/kg	<2.0	<2.0	<2.0				
Ethylene Dibromide	ug/kg	<1.0	<1.0	<1.0				



**Table 6-6**  
**LABORATORY ANALYTICAL RESULTS FOR QA/QC SAMPLES**  
**Former Mystic Oral School for the Deaf**

	Location ID	TRIP BLANK	TRIP BLANK	TRIP BLANK				
	Sample ID	1273931	1273932	1273874				
	Sample Date	01/25/2013	01/28/2013	01/30/2013				
	Sample Time	09:30	09:30	00:00				
	Laboratory	CONT	CONT	CONT				
	Lab. Number	13A0687-27	13A0744-01	13A0792-04				
Constituent	Units							
1,2-Dichloroethane	ug/kg	<2.0	<2.0	<2.0				
Chloroethane	ug/kg	<20	<20	<20				
Methyl tert-Butyl ether	ug/kg	<4.0	<4.0	<4.0				
1,1-Dichloroethylene	ug/kg	<4.0	<4.0	<4.0				
trans-1,2-Dichloroethylene	ug/kg	<2.0	<2.0	<2.0				
cis-1,2-Dichloroethylene	ug/kg	<2.0	<2.0	<2.0				
Vinyl Chloride	ug/kg	<10	<10	<10				
Tetrachloroethylene	ug/kg	<2.0	<2.0	<2.0				
Tetrahydrofuran	ug/kg	<10	<10	<10				
Bromomethane	ug/kg	<10	<10	<10				
Bromodichloromethane	ug/kg	<2.0	<2.0	<2.0				
Chloromethane	ug/kg	<10	<10	<10				
Chlorodibromomethane	ug/kg	<1.0	<1.0	<1.0				
Methylene Dibromide	ug/kg	<2.0	<2.0	<2.0				
Methylene Chloride	ug/kg	<20	<20	<20				
Dichlorodifluoromethane	ug/kg	<20	<20	<20				
Bromoform	ug/kg	<2.0	<2.0	<2.0				
Chloroform	ug/kg	<4.0	<4.0	<4.0				
Trichlorofluoromethane	ug/kg	<10	<10	<10				
beta-Methylnaphthalene	ug/L							
Methyl Isobutyl ketone	ug/kg	<20	<20	<20				
1,2,3-Trichloropropane	ug/kg	<2.0	<2.0	<2.0				
1,2-Dibromo-3-Chloropropane	ug/kg	<2.0	<2.0	<2.0				
1,3-Dichloropropane	ug/kg	<1.0	<1.0	<1.0				
sec-Dichloropropane	ug/kg	<2.0	<2.0	<2.0				
1,1-Dichloropropene	ug/kg	<2.0	<2.0	<2.0				
trans-1,3-Dichloropropene	ug/kg	<1.0	<1.0	<1.0				
cis-1,3-Dichloropropene	ug/kg	<1.0	<1.0	<1.0				
Styrene	ug/kg	<2.0	<2.0	<2.0				



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**Table 6-7**  
**SOIL FIELD DUPLICATE LABORATORY ANALYTICAL RESULTS**  
**Former Mysitc Oral School for the Deaf**



	Location ID	SB-035	SB-035	RPD (%)	.	SB-038	SB-038	RPD (%)
	Sample ID	1273766	1273767			1273867	1273868	
	Sample Date	01/24/2013	01/24/2013			01/29/2013	01/29/2013	
	Sample Time	11:38	11:38			14:37	14:37	
	Sample Depth	0' - 2'	0' - 2'			0' - 2'	0' - 2'	
	Laboratory	CONT	CONT			CONT	CONT	
	Lab. Number	13A0643-12	13A0643-13			13A0745-07	13A0745-08	
Constituent	Units							
Date PCBs Analyzed	-					02/04/2013	02/04/2013	
Date Metals Analyzed	-					02/02/2013	02/02/2013	
Date Organics Analyzed	-	01/29/2013	01/29/2013			02/01/2013	02/01/2013	
Date Pesticides/Herbicides Analyzed	-							
Date Physical Analyzed	-	01/31/2013	01/31/2013			02/06/2013	02/06/2013	
Date Semivolatile Organics Analyzed	-	01/28/2013	01/28/2013			02/04/2013	02/04/2013	
Alachlor	ug/kg							
Arsenic	mg/kg					<2.8	<2.7	
Barium	mg/kg					42	35	20
Cadmium	mg/kg					<0.28	<0.27	
Chromium, Total	mg/kg					9.6	7.1	29.9
Copper	mg/kg					17	14	20
Lead	mg/kg					76	52	38
Mercury	mg/kg					<0.028	<0.026	
Nickel	mg/kg					6.9	5.5	22.6
Selenium	mg/kg					<5.6	<5.3	
Silver	mg/kg					0.78	<0.53	
Zinc	mg/kg					25	19	30
Arochlor 1016	ug/kg					<110	<100	
Arochlor 1221	ug/kg					<110	<100	
Arochlor 1232	ug/kg					<110	<100	
Arochlor 1242	ug/kg					<110	<100	
Arochlor 1248	ug/kg					<110	<100	
Arochlor 1254	ug/kg					<110	<100	
Arochlor 1260	ug/kg					<110	<100	
Arochlor 1262	ug/kg					<110	<100	
Arochlor 1268	ug/kg					<110	<100	
Aldrin	ug/kg							



**Table 6-7**  
**SOIL FIELD DUPLICATE LABORATORY ANALYTICAL RESULTS**  
**Former Mysitc Oral School for the Deaf**

	Location ID	SB-035	SB-035	RPD (%)	.	SB-038	SB-038	RPD (%)
	Sample ID	1273766	1273767			1273867	1273868	
	Sample Date	01/24/2013	01/24/2013			01/29/2013	01/29/2013	
	Sample Time	11:38	11:38			14:37	14:37	
	Sample Depth	0' - 2'	0' - 2'			0' - 2'	0' - 2'	
	Laboratory	CONT	CONT			CONT	CONT	
	Lab. Number	13A0643-12	13A0643-13			13A0745-07	13A0745-08	
Constituent	Units							
Hexachlorobenzene	ug/kg							
Chlordane	ug/kg							
BHC(alpha-)	ug/kg							
BHC(beta-)	ug/kg							
BHC(delta-)	ug/kg							
Lindane	ug/kg							
Dieldrin	ug/kg							
Endrin	ug/kg							
Endrin aldehyde	ug/kg							
Endrin ketone	ug/kg							
p,p'-DDT	ug/kg							
Methoxychlor	ug/kg							
p,p'-DDD	ug/kg							
p,p'-DDE	ug/kg							
Heptachlor Epoxide	ug/kg							
Heptachlor	ug/kg							
Endosulfan Sulfate	ug/kg							
Alpha Endosulfan	ug/kg							
Beta Endosulfan	ug/kg							
Toxaphene	ug/kg							
Cyanide	mg/kg							
Total Petroleum Hydrocarbons (CT ETPH)	mg/kg	38	61	46		570	470	19.2
Acenaphthylene	ug/kg	<190	<190			<190	<180	
Benzo[a]anthracene	ug/kg	<190	<190			<190	<180	
Benzo[b]fluoranthene	ug/kg	<190	<190			<190	<180	
Benzo(a)pyrene	ug/kg	<190	<190			<190	<180	
Benzo(g,h,i)perylene	ug/kg	<190	<190			<190	<180	
Benzo(k)fluoranthene	ug/kg	<190	<190			<190	<180	



**Table 6-7**  
**SOIL FIELD DUPLICATE LABORATORY ANALYTICAL RESULTS**  
**Former Mysitc Oral School for the Deaf**

	Location ID	SB-035	SB-035	RPD (%)	.	SB-038	SB-038	RPD (%)
	Sample ID	1273766	1273767			1273867	1273868	
	Sample Date	01/24/2013	01/24/2013			01/29/2013	01/29/2013	
	Sample Time	11:38	11:38			14:37	14:37	
	Sample Depth	0' - 2'	0' - 2'			0' - 2'	0' - 2'	
	Laboratory	CONT	CONT			CONT	CONT	
	Lab. Number	13A0643-12	13A0643-13			13A0745-07	13A0745-08	
Constituent	Units							
Chrysene	ug/kg	<190	<190			<190	<180	
Dibenz(a,h)anthracene	ug/kg	<190	<190			<190	<180	
Fluoranthene	ug/kg	<190	<190			<190	<180	
Fluorene	ug/kg	<190	<190			<190	<180	
Indeno(1,2,3-c,d)pyrene	ug/kg	<190	<190			<190	<180	
Naphthalene	ug/kg	<4.3	<4.5			<2.9	<2.0	
Naphthalene	ug/kg	<190	<190			270	<180	
Phenanthrene	ug/kg	<190	<190			250	<180	
Pyrene	ug/kg	<190	210			<190	<180	
1,2-Dichloropropane	ug/kg	<2.2	<2.3			<1.4	<1.0	
Acenaphthene	ug/kg	<190	<190			<190	<180	
Acetone	ug/kg	<110	<110			<72	<51	
Acrylonitrile	ug/kg	<6.5	<6.8			<4.3	<3.1	
Anthracene	ug/kg	<190	<190			<190	<180	
2-Hexanone	ug/kg	<22	<23			<14	<10	
Benzene	ug/kg	<2.2	<2.3			<1.4	<1.0	
1,2,3-Trichlorobenzene	ug/kg	<2.2	<2.3			<1.4	<1.0	
1,2,4-Trichlorobenzene	ug/kg	<2.2	<2.3			<1.4	<1.0	
1,2,4-Trimethylbenzene	ug/kg	<2.2	<2.3			<1.4	<1.0	
o-Dichlorobenzene	ug/kg	<2.2	<2.3			<1.4	<1.0	
1,3,5-Trimethylbenzene	ug/kg	<2.2	<2.3			<1.4	<1.0	
m-Dichlorobenzene	ug/kg	<2.2	<2.3			<1.4	<1.0	
p-Dichlorobenzene	ug/kg	<2.2	<2.3			<1.4	<1.0	
Bromobenzene	ug/kg	<2.2	<2.3			<1.4	<1.0	
Butyl Benzene	ug/kg	<2.2	<2.3			<1.4	<1.0	
Chlorobenzene	ug/kg	<2.2	<2.3			<1.4	<1.0	
Ethylbenzene	ug/kg	<2.2	<2.3			<1.4	<1.0	
Isopropylbenzene (Cumene)	ug/kg	<2.2	<2.3			<1.4	<1.0	



**Table 6-7**  
**SOIL FIELD DUPLICATE LABORATORY ANALYTICAL RESULTS**  
**Former Mysitc Oral School for the Deaf**

	Location ID	SB-035	SB-035	RPD (%)	.	SB-038	SB-038	RPD (%)
	Sample ID	1273766	1273767			1273867	1273868	
	Sample Date	01/24/2013	01/24/2013			01/29/2013	01/29/2013	
	Sample Time	11:38	11:38			14:37	14:37	
	Sample Depth	0' - 2'	0' - 2'			0' - 2'	0' - 2'	
	Laboratory	CONT	CONT			CONT	CONT	
	Lab. Number	13A0643-12	13A0643-13			13A0745-07	13A0745-08	
Constituent	Units							
Propylbenzene	ug/kg	<2.2	<2.3			<1.4	<1.0	
sec-Butylbenzene	ug/kg	<2.2	<2.3			<1.4	<1.0	
tert-Butylbenzene	ug/kg	<2.2	<2.3			<1.4	<1.0	
Hexachlorobutadiene	ug/kg	<2.2	<2.3			<1.4	<1.0	
Methyl Ethyl ketone	ug/kg	<43	<45			<29	<20	
trans-1,4-Dichlorobutene	ug/kg	<4.3	<4.5			<2.9	<2.0	
Carbon Disulfide	ug/kg	<6.5	<6.8			<4.3	<3.1	
Carbon Tetrachloride	ug/kg	<2.2	<2.3			<1.4	<1.0	
4-Isopropyltoluene	ug/kg	<2.2	<2.3			<1.4	<1.0	
1,1,1,2-Tetrachloroethane	ug/kg	<2.2	<2.3			<1.4	<1.0	
1,1,1-Trichloroethane	ug/kg	<2.2	<2.3			<1.4	<1.0	
1,1,2,2-Tetrachloroethane	ug/kg	<1.1	<1.1			<0.72	<0.51	
1,1,2-Trichloroethane	ug/kg	<2.2	<2.3			<1.4	<1.0	
1,1,2-Trichlorotrifluoroethane	ug/kg	<11	<11			<7.2	<5.1	
1,1-Dichloroethane	ug/kg	<2.2	<2.3			<1.4	<1.0	
Ethylene Dibromide	ug/kg	<1.1	<1.1			<0.72	<0.51	
1,2-Dichloroethane	ug/kg	<2.2	<2.3			<1.4	<1.0	
Chloroethane	ug/kg	<22	<23			<14	<10	
Methyl tert-Butyl ether	ug/kg	<4.3	<4.5			<2.9	<2.0	
1,1-Dichloroethylene	ug/kg	<4.3	<4.5			<2.9	<2.0	
trans-1,2-Dichloroethylene	ug/kg	<2.2	<2.3			<1.4	<1.0	
cis-1,2-Dichloroethylene	ug/kg	<2.2	<2.3			<1.4	<1.0	
Vinyl Chloride	ug/kg	<11	<11			<7.2	<5.1	
Tetrachloroethylene	ug/kg	<2.2	<2.3			<1.4	<1.0	
Tetrahydrofuran	ug/kg	<11	<11			<7.2	<5.1	
Bromomethane	ug/kg	<11	<11			<7.2	<5.1	
Bromodichloromethane	ug/kg	<2.2	<2.3			<1.4	<1.0	
Chloromethane	ug/kg	<11	<11			<7.2	<5.1	



**Table 6-7**  
**SOIL FIELD DUPLICATE LABORATORY ANALYTICAL RESULTS**  
**Former Mysitc Oral School for the Deaf**

	Location ID	SB-035	SB-035	RPD (%)	.	SB-038	SB-038	RPD (%)
	Sample ID	1273766	1273767			1273867	1273868	
	Sample Date	01/24/2013	01/24/2013			01/29/2013	01/29/2013	
	Sample Time	11:38	11:38			14:37	14:37	
	Sample Depth	0' - 2'	0' - 2'			0' - 2'	0' - 2'	
	Laboratory	CONT	CONT			CONT	CONT	
	Lab. Number	13A0643-12	13A0643-13			13A0745-07	13A0745-08	
Constituent	Units							
Chlorodibromomethane	ug/kg	<1.1	<1.1			<0.72	<0.51	
Methylene Dibromide	ug/kg	<2.2	<2.3			<1.4	<1.0	
Methylene Chloride	ug/kg	<22	<23			<14	<10	
Dichlorodifluoromethane	ug/kg	<22	<23			<14	<10	
Bromoform	ug/kg	<2.2	<2.3			<1.4	<1.0	
Chloroform	ug/kg	<4.3	<4.5			<2.9	<2.0	
Trichlorofluoromethane	ug/kg	<11	<11			<7.2	<5.1	
beta-Methylnaphthalene	ug/kg	<190	<190			<190	<180	
Methyl Isobutyl ketone	ug/kg	<22	<23			<14	<10	
1,2,3-Trichloropropane	ug/kg	<2.2	<2.3			<1.4	<1.0	
1,2-Dibromo-3-Chloropropane	ug/kg	<2.2	<2.3			<1.4	<1.0	
1,3-Dichloropropane	ug/kg	<1.1	<1.1			<0.72	<0.51	
sec-Dichloropropane	ug/kg	<2.2	<2.3			<1.4	<1.0	
1,1-Dichloropropene	ug/kg	<2.2	<2.3			<1.4	<1.0	
trans-1,3-Dichloropropene	ug/kg	<1.1	<1.1			<0.72	<0.51	
cis-1,3-Dichloropropene	ug/kg	<1.1	<1.1			<0.72	<0.51	
Styrene	ug/kg	<2.2	<2.3			<1.4	<1.0	
Toluene	ug/kg	<2.2	<2.3			1.6	<1.0	
o-Chlorotoluene	ug/kg	<2.2	<2.3			<1.4	<1.0	
p-Chlorotoluene	ug/kg	<2.2	<2.3			<1.4	<1.0	
Trichloroethylene	ug/kg	<2.2	<2.3			<1.4	<1.0	
o-Xylene	ug/kg	<2.2	<2.3			<1.4	<1.0	
Xylenes,m- & p-	ug/kg	<4.3	<4.5			<2.9	<2.0	
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**Table 6-7**  
**SOIL FIELD DUPLICATE LABORATORY ANALYTICAL RESULTS**  
**Former Mysitc Oral School for the Deaf**

	Location ID	SB-043	SB-043	RPD (%)	.	SB-045	SB-045	RPD (%)
	Sample ID	1273815	1273816			1273858	1273860	
	Sample Date	01/25/2013	01/25/2013			01/28/2013	01/28/2013	
	Sample Time	14:00	14:00			14:24	14:24	
	Sample Depth	0' - 2'	0' - 2'			0' - 2'	0' - 2'	
	Laboratory	CONT	CONT			CONT	CONT	
	Lab. Number	13A0687-13	13A0687-14			13A0744-09	13A0744-37	
Constituent	Units							
Date PCBs Analyzed	-	01/31/2013	01/31/2013			02/04/2013	02/04/2013	
Date Metals Analyzed	-	01/30/2013	01/30/2013					
Date Organics Analyzed	-	01/30/2013	01/30/2013			02/01/2013	02/01/2013	
Date Pesticides/Herbicides Analyzed	-	01/31/2013	01/31/2013					
Date Physical Analyzed	-	02/01/2013	02/01/2013			02/06/2013	02/06/2013	
Date Semivolatile Organics Analyzed	-	02/01/2013	02/01/2013			02/04/2013	02/04/2013	
Alachlor	ug/kg	<22	<22					
Arsenic	mg/kg	<2.6	<2.6					
Barium	mg/kg	34	34	0.00				
Cadmium	mg/kg	<0.26	<0.26					
Chromium, Total	mg/kg	8.7	9.0	3.4				
Copper	mg/kg	8.4	7.8	7.4				
Lead	mg/kg	2.0	2.2	9.5				
Mercury	mg/kg	<0.027	<0.027					
Nickel	mg/kg	4.8	5.0	4.1				
Selenium	mg/kg	<5.1	<5.3					
Silver	mg/kg	<0.51	<0.53					
Zinc	mg/kg	15	14	7				
Arochlor 1016	ug/kg	<110	<110			<100	<110	
Arochlor 1221	ug/kg	<110	<110			<100	<110	
Arochlor 1232	ug/kg	<110	<110			<100	<110	
Arochlor 1242	ug/kg	<110	<110			<100	<110	
Arochlor 1248	ug/kg	<110	<110			<100	<110	
Arochlor 1254	ug/kg	<110	<110			<100	<110	
Arochlor 1260	ug/kg	<110	<110			<100	<110	
Arochlor 1262	ug/kg	<110	<110			<100	<110	
Arochlor 1268	ug/kg	<110	<110			<100	<110	
Aldrin	ug/kg	<5.4	<5.4					



**Table 6-7**  
**SOIL FIELD DUPLICATE LABORATORY ANALYTICAL RESULTS**  
**Former Mysitc Oral School for the Deaf**

	Location ID	SB-043	SB-043	RPD (%)		SB-045	SB-045	RPD (%)
	Sample ID	1273815	1273816			1273858	1273860	
	Sample Date	01/25/2013	01/25/2013			01/28/2013	01/28/2013	
	Sample Time	14:00	14:00			14:24	14:24	
	Sample Depth	0' - 2'	0' - 2'			0' - 2'	0' - 2'	
	Laboratory	CONT	CONT			CONT	CONT	
	Lab. Number	13A0687-13	13A0687-14			13A0744-09	13A0744-37	
Constituent	Units							
Hexachlorobenzene	ug/kg	<6.5	<6.5					
Chlordane	ug/kg	<22	<22					
BHC(alpha-)	ug/kg	<5.4	<5.4					
BHC(beta-)	ug/kg	<5.4	<5.4					
BHC(delta-)	ug/kg	<5.4	<5.4					
Lindane	ug/kg	<2.2	<2.2					
Dieldrin	ug/kg	<4.3	<4.3					
Endrin	ug/kg	<8.7	<8.6					
Endrin aldehyde	ug/kg	<8.7	<8.6					
Endrin ketone	ug/kg	<8.7	<8.6					
p,p'-DDT	ug/kg	<4.3	<4.3					
Methoxychlor	ug/kg	<54	<54					
p,p'-DDD	ug/kg	<4.3	<4.3					
p,p'-DDE	ug/kg	<4.3	<4.3					
Heptachlor Epoxide	ug/kg	<5.4	<5.4					
Heptachlor	ug/kg	<5.4	<5.4					
Endosulfan Sulfate	ug/kg	<8.7	<8.6					
Alpha Endosulfan	ug/kg	<5.4	<5.4					
Beta Endosulfan	ug/kg	<8.7	<8.6					
Toxaphene	ug/kg	<110	<110					
Cyanide	mg/kg							
Total Petroleum Hydrocarbons (CT ETPH)	mg/kg	<11	13			23	14	50
Acenaphthylene	ug/kg	<180	<180			<180	<180	
Benzo[a]anthracene	ug/kg	<180	<180			<180	<180	
Benzo[b]fluoranthene	ug/kg	<180	<180			<180	260	
Benzo(a)pyrene	ug/kg	<180	<180			<180	220	
Benzo(g,h,i)perylene	ug/kg	<180	<180			<180	<180	
Benzo(k)fluoranthene	ug/kg	<180	<180			<180	<180	



**Table 6-7**  
**SOIL FIELD DUPLICATE LABORATORY ANALYTICAL RESULTS**  
**Former Mysitc Oral School for the Deaf**

	Location ID	SB-043	SB-043	RPD (%)	.	SB-045	SB-045	RPD (%)
	Sample ID	1273815	1273816			1273858	1273860	
	Sample Date	01/25/2013	01/25/2013			01/28/2013	01/28/2013	
	Sample Time	14:00	14:00			14:24	14:24	
	Sample Depth	0' - 2'	0' - 2'			0' - 2'	0' - 2'	
	Laboratory	CONT	CONT			CONT	CONT	
	Lab. Number	13A0687-13	13A0687-14			13A0744-09	13A0744-37	
Constituent	Units							
Chrysene	ug/kg	<180	<180			<180	250	
Dibenz(a,h)anthracene	ug/kg	<180	<180			<180	<180	
Fluoranthene	ug/kg	<180	<180			190	280	40
Fluorene	ug/kg	<180	<180			<180	<180	
Indeno(1,2,3-c,d)pyrene	ug/kg	<180	<180			<180	270	
Naphthalene	ug/kg	<6.4	<11			<4.3	<2.1	
Naphthalene	ug/kg	<180	<180			<180	<180	
Phenanthrene	ug/kg	<180	<180			<180	<180	
Pyrene	ug/kg	<180	<180			210	380	58
1,2-Dichloropropane	ug/kg	<3.2	<5.4			<2.2	<1.1	
Acenaphthene	ug/kg	<180	<180			<180	<180	
Acetone	ug/kg	<160	<270			<110	<53	
Acrylonitrile	ug/kg	<9.6	<16			<6.5	<3.2	
Anthracene	ug/kg	<180	<180			<180	<180	
2-Hexanone	ug/kg	<32	<54			<22	<11	
Benzene	ug/kg	<3.2	<5.4			<2.2	<1.1	
1,2,3-Trichlorobenzene	ug/kg	<3.2	<5.4			<2.2	<1.1	
1,2,4-Trichlorobenzene	ug/kg	<3.2	<5.4			<2.2	<1.1	
1,2,4-Trimethylbenzene	ug/kg	<3.2	<5.4			<2.2	<1.1	
o-Dichlorobenzene	ug/kg	<3.2	<5.4			<2.2	<1.1	
1,3,5-Trimethylbenzene	ug/kg	<3.2	<5.4			<2.2	<1.1	
m-Dichlorobenzene	ug/kg	<3.2	<5.4			<2.2	<1.1	
p-Dichlorobenzene	ug/kg	<3.2	<5.4			<2.2	<1.1	
Bromobenzene	ug/kg	<3.2	<5.4			<2.2	<1.1	
Butyl Benzene	ug/kg	<3.2	<5.4			<2.2	<1.1	
Chlorobenzene	ug/kg	<3.2	<5.4			<2.2	<1.1	
Ethylbenzene	ug/kg	<3.2	<5.4			<2.2	<1.1	
Isopropylbenzene (Cumene)	ug/kg	<3.2	<5.4			<2.2	<1.1	



**Table 6-7**  
**SOIL FIELD DUPLICATE LABORATORY ANALYTICAL RESULTS**  
**Former Mysitc Oral School for the Deaf**

	Location ID	SB-043	SB-043	RPD (%)		SB-045	SB-045	RPD (%)
	Sample ID	1273815	1273816			1273858	1273860	
	Sample Date	01/25/2013	01/25/2013			01/28/2013	01/28/2013	
	Sample Time	14:00	14:00			14:24	14:24	
	Sample Depth	0' - 2'	0' - 2'			0' - 2'	0' - 2'	
	Laboratory	CONT	CONT			CONT	CONT	
	Lab. Number	13A0687-13	13A0687-14			13A0744-09	13A0744-37	
Constituent	Units							
Propylbenzene	ug/kg	<3.2	<5.4			<2.2	<1.1	
sec-Butylbenzene	ug/kg	<3.2	<5.4			<2.2	<1.1	
tert-Butylbenzene	ug/kg	<3.2	<5.4			<2.2	<1.1	
Hexachlorobutadiene	ug/kg	<3.2	<5.4			<2.2	<1.1	
Methyl Ethyl ketone	ug/kg	<64	<110			<43	<21	
trans-1,4-Dichlorobutene	ug/kg	<6.4	<11			<4.3	<2.1	
Carbon Disulfide	ug/kg	<9.6	<16			<6.5	<3.2	
Carbon Tetrachloride	ug/kg	<3.2	<5.4			<2.2	<1.1	
4-Isopropyltoluene	ug/kg	<3.2	<5.4			<2.2	<1.1	
1,1,1,2-Tetrachloroethane	ug/kg	<3.2	<5.4			<2.2	<1.1	
1,1,1-Trichloroethane	ug/kg	<3.2	<5.4			<2.2	<1.1	
1,1,2,2-Tetrachloroethane	ug/kg	<1.6	<2.7			<1.1	<0.53	
1,1,2-Trichloroethane	ug/kg	<3.2	<5.4			<2.2	<1.1	
1,1,2-Trichlorotrifluoroethane	ug/kg	<16	<27			<11	<5.3	
1,1-Dichloroethane	ug/kg	<3.2	<5.4			<2.2	<1.1	
Ethylene Dibromide	ug/kg	<1.6	<2.7			<1.1	<0.53	
1,2-Dichloroethane	ug/kg	<3.2	<5.4			<2.2	<1.1	
Chloroethane	ug/kg	<32	<54			<22	<11	
Methyl tert-Butyl ether	ug/kg	<6.4	<11			<4.3	<2.1	
1,1-Dichloroethylene	ug/kg	<6.4	<11			<4.3	<2.1	
trans-1,2-Dichloroethylene	ug/kg	<3.2	<5.4			<2.2	<1.1	
cis-1,2-Dichloroethylene	ug/kg	<3.2	<5.4			<2.2	<1.1	
Vinyl Chloride	ug/kg	<16	<27			<11	<5.3	
Tetrachloroethylene	ug/kg	<3.2	<5.4			<2.2	<1.1	
Tetrahydrofuran	ug/kg	<16	<27			<11	<5.3	
Bromomethane	ug/kg	<16	<27			<11	<5.3	
Bromodichloromethane	ug/kg	<3.2	<5.4			<2.2	<1.1	
Chloromethane	ug/kg	<16	<27			<11	<5.3	



**Table 6-7**  
**SOIL FIELD DUPLICATE LABORATORY ANALYTICAL RESULTS**  
**Former Mysitc Oral School for the Deaf**

	Location ID	SB-043	SB-043	RPD (%)	.	SB-045	SB-045	RPD (%)
	Sample ID	1273815	1273816			1273858	1273860	
	Sample Date	01/25/2013	01/25/2013			01/28/2013	01/28/2013	
	Sample Time	14:00	14:00			14:24	14:24	
	Sample Depth	0' - 2'	0' - 2'			0' - 2'	0' - 2'	
	Laboratory	CONT	CONT			CONT	CONT	
	Lab. Number	13A0687-13	13A0687-14			13A0744-09	13A0744-37	
Constituent	Units							
Chlorodibromomethane	ug/kg	<1.6	<2.7			<1.1	<0.53	
Methylene Dibromide	ug/kg	<3.2	<5.4			<2.2	<1.1	
Methylene Chloride	ug/kg	<32	<54			<22	<11	
Dichlorodifluoromethane	ug/kg	<32	<54			<22	<11	
Bromoform	ug/kg	<3.2	<5.4			<2.2	<1.1	
Chloroform	ug/kg	<6.4	<11			<4.3	<2.1	
Trichlorofluoromethane	ug/kg	<16	<27			<11	<5.3	
beta-Methylnaphthalene	ug/kg	<180	<180			<180	<180	
Methyl Isobutyl ketone	ug/kg	<32	<54			<22	<11	
1,2,3-Trichloropropane	ug/kg	<3.2	<5.4			<2.2	<1.1	
1,2-Dibromo-3-Chloropropane	ug/kg	<3.2	<5.4			<2.2	<1.1	
1,3-Dichloropropane	ug/kg	<1.6	<2.7			<1.1	<0.53	
sec-Dichloropropane	ug/kg	<3.2	<5.4			<2.2	<1.1	
1,1-Dichloropropene	ug/kg	<3.2	<5.4			<2.2	<1.1	
trans-1,3-Dichloropropene	ug/kg	<1.6	<2.7			<1.1	<0.53	
cis-1,3-Dichloropropene	ug/kg	<1.6	<2.7			<1.1	<0.53	
Styrene	ug/kg	<3.2	<5.4			<2.2	<1.1	
Toluene	ug/kg	<3.2	<5.4			<2.2	<1.1	
o-Chlorotoluene	ug/kg	<3.2	<5.4			<2.2	<1.1	
p-Chlorotoluene	ug/kg	<3.2	<5.4			<2.2	<1.1	
Trichloroethylene	ug/kg	<3.2	<5.4			<2.2	<1.1	
o-Xylene	ug/kg	<3.2	<5.4			<2.2	<1.1	
Xylenes,m- & p-	ug/kg	<6.4	<11			<4.3	<2.1	
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**Table 6-7**  
**SOIL FIELD DUPLICATE LABORATORY ANALYTICAL RESULTS**  
**Former Mysitc Oral School for the Deaf**

	Location ID	SB-059	SB-059	RPD (%)	.			
	Sample ID	1273854	1273855					
	Sample Date	01/28/2013	01/28/2013					
	Sample Time	11:13	11:13					
	Sample Depth	0' - 2'	0' - 2'					
	Laboratory	CONT	CONT					
	Lab. Number	13A0744-05	13A0744-06					
Constituent	Units							
Date PCBs Analyzed	-							
Date Metals Analyzed	-	02/02/2013	02/02/2013					
Date Organics Analyzed	-	02/01/2013	02/01/2013					
Date Pesticides/Herbicides Analyzed	-							
Date Physical Analyzed	-	02/06/2013	02/06/2013					
Date Semivolatile Organics Analyzed	-	02/04/2013	02/04/2013					
Alachlor	ug/kg							
Arsenic	mg/kg	<2.6	<2.6					
Barium	mg/kg	31	50	50				
Cadmium	mg/kg	<0.26	<0.26					
Chromium, Total	mg/kg	6.6	10	0.00				
Copper	mg/kg	5.6	5.8	3.5				
Lead	mg/kg	10	7.9	0.00				
Mercury	mg/kg	<0.026	<0.026					
Nickel	mg/kg	3.5	6.9	65.4				
Selenium	mg/kg	<5.3	<5.2					
Silver	mg/kg	0.56	<0.52					
Zinc	mg/kg	26	26	0.00				
Arochlor 1016	ug/kg							
Arochlor 1221	ug/kg							
Arochlor 1232	ug/kg							
Arochlor 1242	ug/kg							
Arochlor 1248	ug/kg							
Arochlor 1254	ug/kg							
Arochlor 1260	ug/kg							
Arochlor 1262	ug/kg							
Arochlor 1268	ug/kg							
Aldrin	ug/kg							



**Table 6-7**  
**SOIL FIELD DUPLICATE LABORATORY ANALYTICAL RESULTS**  
**Former Mysitc Oral School for the Deaf**

	Location ID	SB-059	SB-059	RPD (%)	.			
	Sample ID	1273854	1273855					
	Sample Date	01/28/2013	01/28/2013					
	Sample Time	11:13	11:13					
	Sample Depth	0' - 2'	0' - 2'					
	Laboratory	CONT	CONT					
	Lab. Number	13A0744-05	13A0744-06					
Constituent	Units							
Hexachlorobenzene	ug/kg							
Chlordane	ug/kg							
BHC(alpha-)	ug/kg							
BHC(beta-)	ug/kg							
BHC(delta-)	ug/kg							
Lindane	ug/kg							
Dieldrin	ug/kg							
Endrin	ug/kg							
Endrin aldehyde	ug/kg							
Endrin ketone	ug/kg							
p,p'-DDT	ug/kg							
Methoxychlor	ug/kg							
p,p'-DDD	ug/kg							
p,p'-DDE	ug/kg							
Heptachlor Epoxide	ug/kg							
Heptachlor	ug/kg							
Endosulfan Sulfate	ug/kg							
Alpha Endosulfan	ug/kg							
Beta Endosulfan	ug/kg							
Toxaphene	ug/kg							
Cyanide	mg/kg	<0.31	1.1					
Total Petroleum Hydrocarbons (CT ETPH)	mg/kg	30	140	130				
Acenaphthylene	ug/kg	<180	<180					
Benzo[a]anthracene	ug/kg	<180	<180					
Benzo[b]fluoranthene	ug/kg	<180	<180					
Benzo(a)pyrene	ug/kg	<180	<180					
Benzo(g,h,i)perylene	ug/kg	<180	<180					
Benzo(k)fluoranthene	ug/kg	<180	<180					



**Table 6-7**  
**SOIL FIELD DUPLICATE LABORATORY ANALYTICAL RESULTS**  
**Former Mysitc Oral School for the Deaf**

	Location ID	SB-059	SB-059	RPD (%)				
	Sample ID	1273854	1273855					
	Sample Date	01/28/2013	01/28/2013					
	Sample Time	11:13	11:13					
	Sample Depth	0' - 2'	0' - 2'					
	Laboratory	CONT	CONT					
	Lab. Number	13A0744-05	13A0744-06					
Constituent	Units							
Chrysene	ug/kg	<180	<180					
Dibenz(a,h)anthracene	ug/kg	<180	<180					
Fluoranthene	ug/kg	<180	<180					
Fluorene	ug/kg	<180	<180					
Indeno(1,2,3-c,d)pyrene	ug/kg	<180	<180					
Naphthalene	ug/kg	<3.7	<3.7					
Naphthalene	ug/kg	<180	<180					
Phenanthrene	ug/kg	<180	<180					
Pyrene	ug/kg	<180	<180					
1,2-Dichloropropane	ug/kg	<1.9	<1.9					
Acenaphthene	ug/kg	<180	<180					
Acetone	ug/kg	<93	<93					
Acrylonitrile	ug/kg	<5.6	<5.6					
Anthracene	ug/kg	<180	<180					
2-Hexanone	ug/kg	<19	<19					
Benzene	ug/kg	<1.9	<1.9					
1,2,3-Trichlorobenzene	ug/kg	<1.9	<1.9					
1,2,4-Trichlorobenzene	ug/kg	<1.9	<1.9					
1,2,4-Trimethylbenzene	ug/kg	<1.9	<1.9					
o-Dichlorobenzene	ug/kg	<1.9	<1.9					
1,3,5-Trimethylbenzene	ug/kg	<1.9	<1.9					
m-Dichlorobenzene	ug/kg	<1.9	<1.9					
p-Dichlorobenzene	ug/kg	<1.9	<1.9					
Bromobenzene	ug/kg	<1.9	<1.9					
Butyl Benzene	ug/kg	<1.9	<1.9					
Chlorobenzene	ug/kg	<1.9	<1.9					
Ethylbenzene	ug/kg	<1.9	<1.9					
Isopropylbenzene (Cumene)	ug/kg	<1.9	<1.9					



**Table 6-7**  
**SOIL FIELD DUPLICATE LABORATORY ANALYTICAL RESULTS**  
**Former Mysitc Oral School for the Deaf**

	Location ID	SB-059	SB-059	RPD (%)				
	Sample ID	1273854	1273855					
	Sample Date	01/28/2013	01/28/2013					
	Sample Time	11:13	11:13					
	Sample Depth	0' - 2'	0' - 2'					
	Laboratory	CONT	CONT					
	Lab. Number	13A0744-05	13A0744-06					
Constituent	Units							
Propylbenzene	ug/kg	<1.9	<1.9					
sec-Butylbenzene	ug/kg	<1.9	<1.9					
tert-Butylbenzene	ug/kg	<1.9	<1.9					
Hexachlorobutadiene	ug/kg	<1.9	<1.9					
Methyl Ethyl ketone	ug/kg	<37	<37					
trans-1,4-Dichlorobutene	ug/kg	<3.7	<3.7					
Carbon Disulfide	ug/kg	<5.6	<5.6					
Carbon Tetrachloride	ug/kg	<1.9	<1.9					
4-Isopropyltoluene	ug/kg	<1.9	<1.9					
1,1,1,2-Tetrachloroethane	ug/kg	<1.9	<1.9					
1,1,1-Trichloroethane	ug/kg	<1.9	<1.9					
1,1,2,2-Tetrachloroethane	ug/kg	<0.93	<0.93					
1,1,2-Trichloroethane	ug/kg	<1.9	<1.9					
1,1,2-Trichlorotrifluoroethane	ug/kg	<9.3	<9.3					
1,1-Dichloroethane	ug/kg	<1.9	<1.9					
Ethylene Dibromide	ug/kg	<0.93	<0.93					
1,2-Dichloroethane	ug/kg	<1.9	<1.9					
Chloroethane	ug/kg	<19	<19					
Methyl tert-Butyl ether	ug/kg	<3.7	<3.7					
1,1-Dichloroethylene	ug/kg	<3.7	<3.7					
trans-1,2-Dichloroethylene	ug/kg	<1.9	<1.9					
cis-1,2-Dichloroethylene	ug/kg	<1.9	<1.9					
Vinyl Chloride	ug/kg	<9.3	<9.3					
Tetrachloroethylene	ug/kg	<1.9	<1.9					
Tetrahydrofuran	ug/kg	<9.3	<9.3					
Bromomethane	ug/kg	<9.3	<9.3					
Bromodichloromethane	ug/kg	<1.9	<1.9					
Chloromethane	ug/kg	<9.3	<9.3					



**Table 6-7**  
**SOIL FIELD DUPLICATE LABORATORY ANALYTICAL RESULTS**  
**Former Mysitc Oral School for the Deaf**

	Location ID	SB-059	SB-059	RPD (%)	.			
	Sample ID	1273854	1273855					
	Sample Date	01/28/2013	01/28/2013					
	Sample Time	11:13	11:13					
	Sample Depth	0' - 2'	0' - 2'					
	Laboratory	CONT	CONT					
	Lab. Number	13A0744-05	13A0744-06					
Constituent	Units							
Chlorodibromomethane	ug/kg	<0.93	<0.93					
Methylene Dibromide	ug/kg	<1.9	<1.9					
Methylene Chloride	ug/kg	<19	<19					
Dichlorodifluoromethane	ug/kg	<19	<19					
Bromoform	ug/kg	<1.9	<1.9					
Chloroform	ug/kg	<3.7	<3.7					
Trichlorofluoromethane	ug/kg	<9.3	<9.3					
beta-Methylnaphthalene	ug/kg	<180	<180					
Methyl Isobutyl ketone	ug/kg	<19	<19					
1,2,3-Trichloropropane	ug/kg	<1.9	<1.9					
1,2-Dibromo-3-Chloropropane	ug/kg	<1.9	<1.9					
1,3-Dichloropropane	ug/kg	<0.93	<0.93					
sec-Dichloropropane	ug/kg	<1.9	<1.9					
1,1-Dichloropropene	ug/kg	<1.9	<1.9					
trans-1,3-Dichloropropene	ug/kg	<0.93	<0.93					
cis-1,3-Dichloropropene	ug/kg	<0.93	<0.93					
Styrene	ug/kg	<1.9	<1.9					
Toluene	ug/kg	<1.9	<1.9					
o-Chlorotoluene	ug/kg	<1.9	<1.9					
p-Chlorotoluene	ug/kg	<1.9	<1.9					
Trichloroethylene	ug/kg	<1.9	<1.9					
o-Xylene	ug/kg	<1.9	<1.9					
Xylenes,m- & p-	ug/kg	<3.7	<3.7					
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**Table 6-8**  
**GROUNDWATER FIELD DUPLICATE LABORATORY ANALYTICAL RESULTS**  
**Fomer Mystic Oral School for the Deaf**

	Location ID	MW-03	MW-03	RPD (%)	.			
	Sample ID	1273939	1273942					
	Sample Date	02/04/2013	02/04/2013					
	Sample Time	10:55	10:55					
	Sample Depth	5.00' - 15.00	5.00' - 15.00					
	Laboratory	CONT	CONT					
	Lab. Number	13B0120-01	13B0120-03					
Constituent	Units							
Date Metals Analyzed	-	02/06/2013	02/06/2013					
Date Organics Analyzed	-	02/05/2013	02/05/2013					
Date Physical Analyzed	-	02/07/2013	02/07/2013					
Date Semivolatile Organics Analyzed	-	02/06/2013	02/06/2013					
Arsenic (unfiltered)	mg/L	<0.0020	<0.0020					
Barium (unfiltered)	mg/L	<0.05	<0.05					
Cadmium (unfiltered)	mg/L	<0.0025	<0.0025					
Chromium, Total (unfiltered)	mg/L	<0.0050	<0.0050					
Copper (unfiltered)	mg/L	<0.025	<0.025					
Lead (unfiltered)	mg/L	<0.0050	<0.0050					
Mercury (unfiltered)	mg/L	<0.00010	<0.00010					
Nickel (unfiltered)	mg/L	<0.025	<0.025					
Selenium (unfiltered)	mg/L	<0.025	<0.025					
Silver (unfiltered)	mg/L	<0.0025	<0.0025					
Zinc (unfiltered)	mg/L	<0.05	<0.05					
Total Petroleum Hydrocarbons (CT ETPH)	mg/L	<0.075	<0.075					
Acenaphthylene	ug/L	<0.30	<0.30					
Benzo[a]anthracene	ug/L	<0.050	<0.050					
Benzo[b]fluoranthene	ug/L	<0.050	<0.050					
Benzo(a)pyrene	ug/L	<0.10	<0.10					
Benzo(g,h,i)perylene	ug/L	<0.50	<0.50					
Benzo(k)fluoranthene	ug/L	<0.20	<0.20					
Chrysene	ug/L	<0.20	<0.20					
Dibenz(a,h)anthracene	ug/L	<0.20	<0.20					
Fluoranthene	ug/L	<0.50	<0.50					
Fluorene	ug/L	<1.0	<1.0					
Indeno(1,2,3-c,d)pyrene	ug/L	<0.20	<0.20					
Naphthalene	ug/L	<2.0	<2.0					



**Table 6-8**  
**GROUNDWATER FIELD DUPLICATE LABORATORY ANALYTICAL RESULTS**  
**Fomer Mystic Oral School for the Deaf**

	Location ID	MW-03	MW-03	RPD (%)	.			
	Sample ID	1273939	1273942					
	Sample Date	02/04/2013	02/04/2013					
	Sample Time	10:55	10:55					
	Sample Depth	5.00' - 15.00	5.00' - 15.00					
	Laboratory	CONT	CONT					
	Lab. Number	13B0120-01	13B0120-03					
Constituent	Units							
Naphthalene	ug/L	<1.0	<1.0					
Phenanthrene	ug/L	<0.050	<0.050					
Pyrene	ug/L	<1.0	<1.0					
1,2-Dichloropropane	ug/L	<0.50	<0.50					
Acenaphthene	ug/L	<0.30	<0.30					
Acetone	ug/L	<5.0	<5.0					
Acrylonitrile	ug/L	<2.0	<2.0					
Anthracene	ug/L	<0.20	<0.20					
2-Hexanone	ug/L	<5.0	<5.0					
Benzene	ug/L	<0.50	<0.50					
1,2,3-Trichlorobenzene	ug/L	<0.50	<0.50					
1,2,4-Trichlorobenzene	ug/L	<0.50	<0.50					
1,2,4-Trimethylbenzene	ug/L	<0.50	<0.50					
o-Dichlorobenzene	ug/L	<0.50	<0.50					
1,3,5-Trimethylbenzene	ug/L	<0.50	<0.50					
m-Dichlorobenzene	ug/L	<0.50	<0.50					
p-Dichlorobenzene	ug/L	<0.50	<0.50					
Bromobenzene	ug/L	<0.50	<0.50					
Butyl Benzene	ug/L	<1.0	<1.0					
Chlorobenzene	ug/L	<0.50	<0.50					
Ethylbenzene	ug/L	<0.50	<0.50					
Isopropylbenzene (Cumene)	ug/L	<0.50	<0.50					
Propylbenzene	ug/L	<1.0	<1.0					
sec-Butylbenzene	ug/L	<1.0	<1.0					
tert-Butylbenzene	ug/L	<1.0	<1.0					
Hexachlorobutadiene	ug/L	<0.40	<0.40					
Methyl Ethyl ketone	ug/L	<5.0	<5.0					
trans-1,4-Dichlorobutene	ug/L	<2.0	<2.0					



**Table 6-8**  
**GROUNDWATER FIELD DUPLICATE LABORATORY ANALYTICAL RESULTS**  
**Fomer Mystic Oral School for the Deaf**

	Location ID	MW-03	MW-03	RPD (%)				
	Sample ID	1273939	1273942					
	Sample Date	02/04/2013	02/04/2013					
	Sample Time	10:55	10:55					
	Sample Depth	5.00' - 15.00	5.00' - 15.00					
	Laboratory	CONT	CONT					
	Lab. Number	13B0120-01	13B0120-03					
Constituent	Units							
Carbon Disulfide	ug/L	<5.0	<5.0					
Carbon Tetrachloride	ug/L	<0.50	<0.50					
4-Isopropyltoluene	ug/L	<0.50	<0.50					
1,1,1,2-Tetrachloroethane	ug/L	<0.50	<0.50					
1,1,1-Trichloroethane	ug/L	<0.50	<0.50					
1,1,2,2-Tetrachloroethane	ug/L	<0.50	<0.50					
1,1,2-Trichloroethane	ug/L	<0.50	<0.50					
1,1,2-Trichlorotrifluoroethane	ug/L	<0.5	<0.5					
1,1-Dichloroethane	ug/L	<0.50	<0.50					
Ethylene Dibromide	ug/L	<0.50	<0.50					
1,2-Dichloroethane	ug/L	<0.50	<0.50					
Chloroethane	ug/L	<0.50	<0.50					
Methyl tert-Butyl ether	ug/L	<0.50	<0.50					
1,1-Dichloroethylene	ug/L	<0.50	<0.50					
trans-1,2-Dichloroethylene	ug/L	<1.0	<1.0					
cis-1,2-Dichloroethylene	ug/L	<0.50	<0.50					
Vinyl Chloride	ug/L	<1.0	<1.0					
Tetrachloroethylene	ug/L	<1.0	<1.0					
Tetrahydrofuran	ug/L	<10	<10					
Bromomethane	ug/L	<5.0	<5.0					
Bromodichloromethane	ug/L	<0.50	<0.50					
Chloromethane	ug/L	<0.50	<0.50					
Chlorodibromomethane	ug/L	<0.50	<0.50					
Methylene Dibromide	ug/L	<0.50	<0.50					
Methylene Chloride	ug/L	<5.0	<5.0					
Dichlorodifluoromethane	ug/L	<0.50	<0.50					
Bromoform	ug/L	<0.50	<0.50					
Chloroform	ug/L	<0.50	<0.50					



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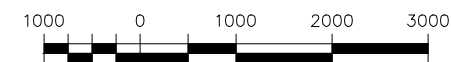
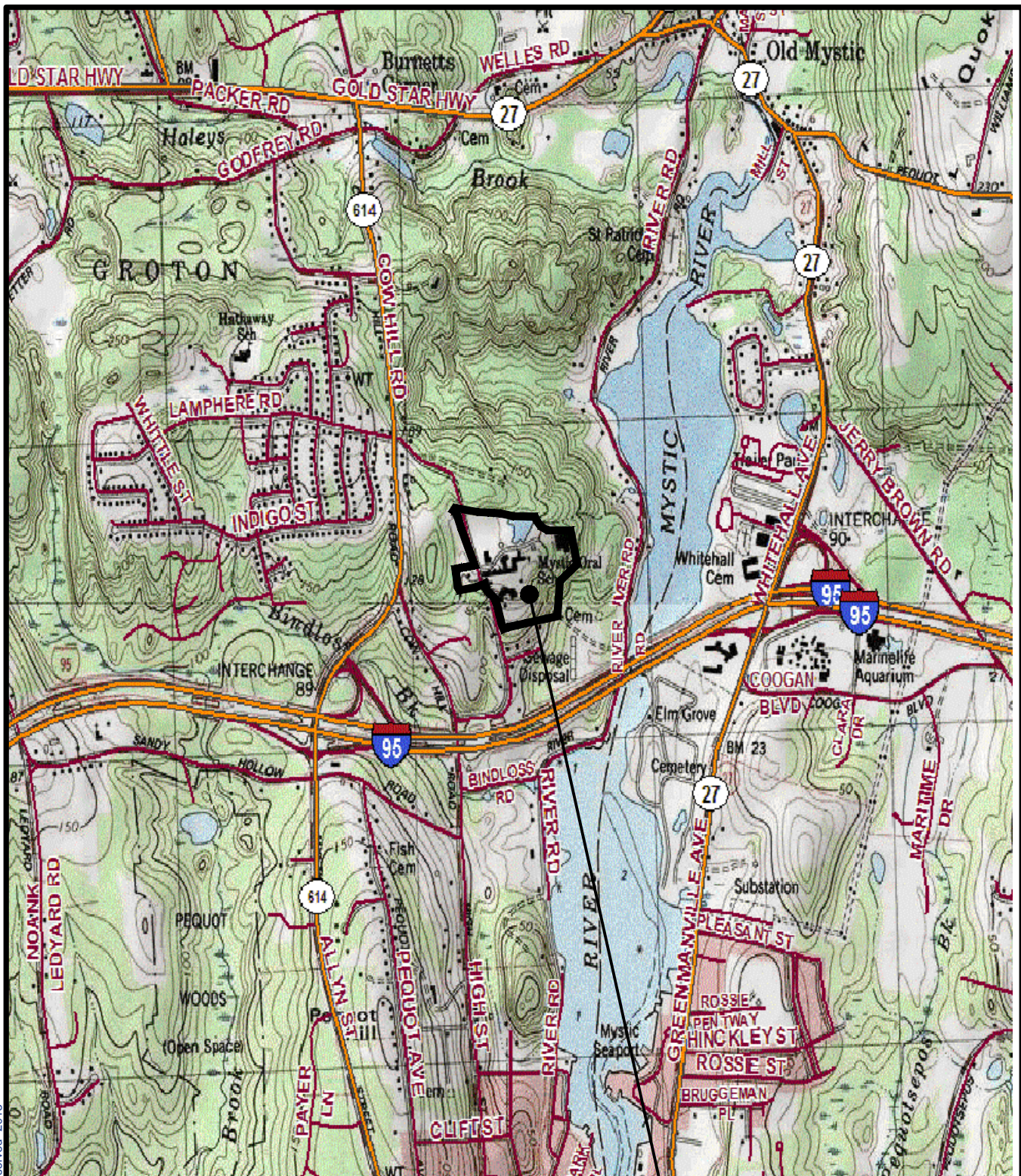
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Page 1 of 1



## FIGURES





APPROXIMATE SCALE IN FEET  
MAP REFERENCE:

SECTION OF THE USGS 7.5 MINUTE SERIES TOPOGRAPHIC MAP FOR OLD MYSTIC & MYSTIC, CT, DATED 1983, 1984 & PHOTOREVISED 1989 & 1996. MAP CREATED WITH TOPO! © 2008 NATIONAL GEOGRAPHIC & © 2007 TELE ATLAS, NORTH AMERICA, INC., RELEASE 01/2007.



SITE LOCATION

Phase II Subsurface Investigation Report  
Former Mystic Oral School For The Deaf

SITE LOCATION MAP

Comm.No.

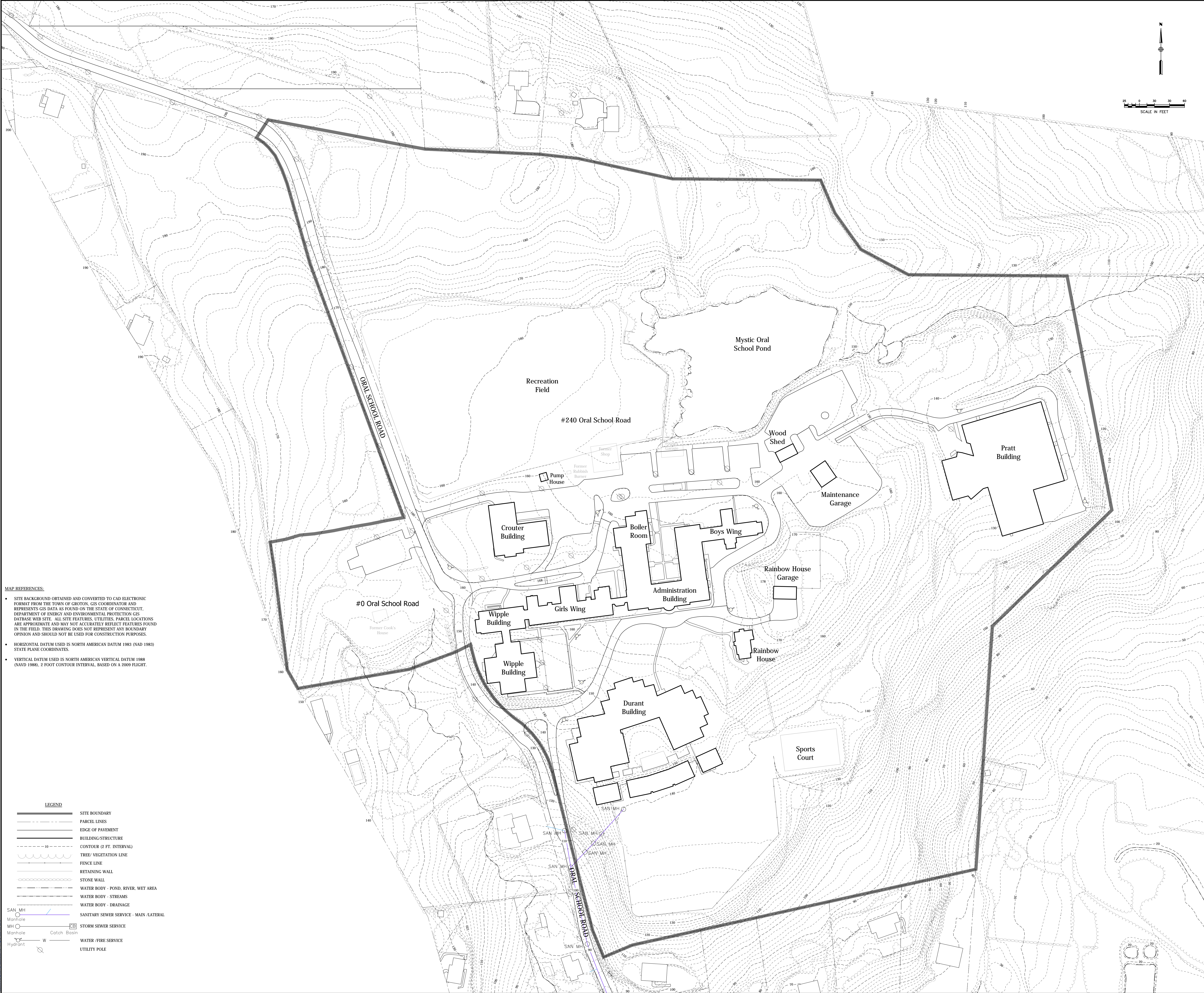
18HM3.01

FIGURE 2-1



## **DRAWINGS**





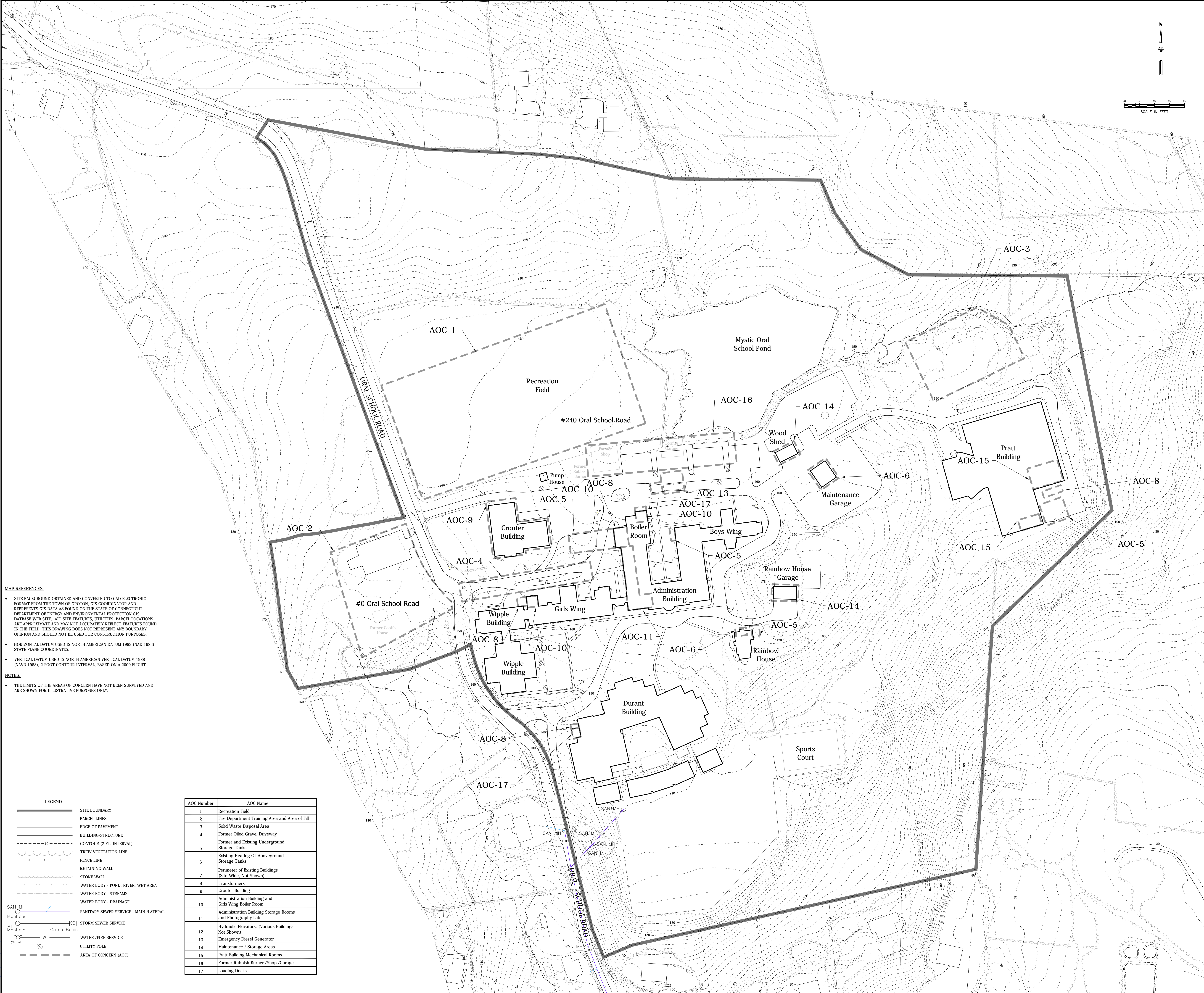
**MAP REFERENCES:**

- SITE BACKGROUND OBTAINED AND CONVERTED TO CAD ELECTRONIC FORMAT FROM THE TOWN OF GROTON, GIS COORDINATOR AND REPRESENTS GIS DATA AS FOUND ON THE STATE OF CONNECTICUT, DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION GIS DATABASE WEB SITE. ALL SITE FEATURES, UTILITIES, PARCEL LOCATIONS ARE APPROXIMATE AND MAY NOT ACCURATELY REFLECT FEATURES FOUND IN THE FIELD. THIS DRAWING DOES NOT REPRESENT ANY BOUNDARY OPINION AND SHOULD NOT BE USED FOR CONSTRUCTION PURPOSES.
- HORIZONTAL DATUM USED IS NORTH AMERICAN DATUM 1983 (NAD 1983) STATE PLANE COORDINATES.
- VERTICAL DATUM USED IS NORTH AMERICAN VERTICAL DATUM 1988 (NAVD 1988), 2 FOOT CONTOUR INTERVAL, BASED ON A 2009 FLIGHT.

- LEGEND**
- SITE BOUNDARY
  - - - PARCEL LINES
  - EDGE OF PAVEMENT
  - BUILDING/STRUCTURE
  - - - CONTOUR (2 FT. INTERVAL)
  - TREE/VEGETATION LINE
  - FENCE LINE
  - RETAINING WALL
  - STONE WALL
  - WATER BODY - POND, RIVER, WET AREA
  - WATER BODY - STREAMS
  - WATER BODY - DRAINAGE
  - SAN /MH — SANITARY SEWER SERVICE - MAIN /LATERAL
  - STORM SEWER SERVICE
  - WATER /FIRE SERVICE
  - UTILITY POLE

Loureiro Engineering Associates, Inc. 100 Northwest Drive • Plainville, Connecticut 06062 Phone: 860-747-6181 • Fax: 860-747-8822 An Employee Owned Company • www.Loureiro.com		DATE 06/22/2013		DATE 06/22/2013	
Loureiro Engineering • Construction • Design • Energy • Water		DATE 06/22/2013		DATE 06/22/2013	
PHASE II SUBSURFACE INVESTIGATION REPORT FORMER MYSTIC ORAL SCHOOL FOR THE DEAF		SITE PLAN			
DRAWING 2-1		NO. OF SHEETS 1			
SHEET NO. 1		REV. DATE DESCRIPTION OF REVISION			
		APPR.			





- MAP REFERENCES:
- SITE BACKGROUND OBTAINED AND CONVERTED TO CAD ELECTRONIC FORMAT FROM THE TOWN OF GROTON, GIS COORDINATOR AND REPRESENTS GIS DATA AS FOUND ON THE STATE OF CONNECTICUT, DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION GIS DATABASE WEB SITE. ALL SITE FEATURES, UTILITIES, PARCEL LOCATIONS ARE APPROXIMATE AND MAY NOT ACCURATELY REFLECT FEATURES FOUND IN THE FIELD. THIS DRAWING DOES NOT REPRESENT ANY BOUNDARY OPINION AND SHOULD NOT BE USED FOR CONSTRUCTION PURPOSES.
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  - VERTICAL DATUM USED IS NORTH AMERICAN VERTICAL DATUM 1988 (NAVD 1988), 2 FOOT CONTOUR INTERVAL, BASED ON A 2009 FLIGHT.
- NOTES:
- THE LIMITS OF THE AREAS OF CONCERN HAVE NOT BEEN SURVEYED AND ARE SHOWN FOR ILLUSTRATIVE PURPOSES ONLY.

LEGEND	
	SITE BOUNDARY
	PARCEL LINES
	EDGE OF PAVEMENT
	BUILDING/STRUCTURE
	CONTOUR (2 FT. INTERVAL)
	TREE/ VEGETATION LINE
	FENCE LINE
	RETAINING WALL
	STONE WALL
	WATER BODY - POND, RIVER, WET AREA
	WATER BODY - STREAMS
	WATER BODY - DRAINAGE
	SANITARY SEWER SERVICE - MAIN /LATERAL
	STORM SEWER SERVICE
	WATER /FIRE SERVICE
	UTILITY POLE
	AREA OF CONCERN (AOC)

AOC Number	AOC Name
1	Recreation Field
2	Fire Department Training Area and Area of Fill
3	Solid Waste Disposal Area
4	Former Oiled Gravel Driveway
5	Former and Existing Underground Storage Tanks
6	Existing Heating Oil Aboveground Storage Tanks
7	Perimeter of Existing Buildings (Site-Wide, Not Shown)
8	Transformers
9	Crouter Building
10	Administration Building and Girls Wing Boiler Room
11	Administration Building Storage Rooms and Photography Lab
12	Hydraulic Elevators, (Various Buildings, Not Shown)
13	Emergency Diesel Generator
14	Maintenance / Storage Areas
15	Pratt Building Mechanical Rooms
16	Former Rubbish Burner /Shop /Garage
17	Loading Docks

PHASE II SUBSURFACE INVESTIGATION REPORT  
FORMER MYSTIC ORAL SCHOOL FOR THE DEAF

4-1

NO. OF SHEETS  
1

SCALE  
1" = 60'

CONTRACT NO.  
18M0301

DRAWN BY  
G.F.B.

DATE  
06/22/2013

DATE  
06/22/2013

DATE  
06/22/2013

D.N.S.

D.N.S.

APPROVED BY  
G.F.B.

DATE  
06/22/2013

D.N.S.

D.N.S.

DATE  
06/22/2013

DATE  
06/22/2013

APPROVED BY  
G.F.B.

DATE  
06/22/2013

D.N.S.

D.N.S.

DESCRIPTION OF REVISION

REV.

DATE

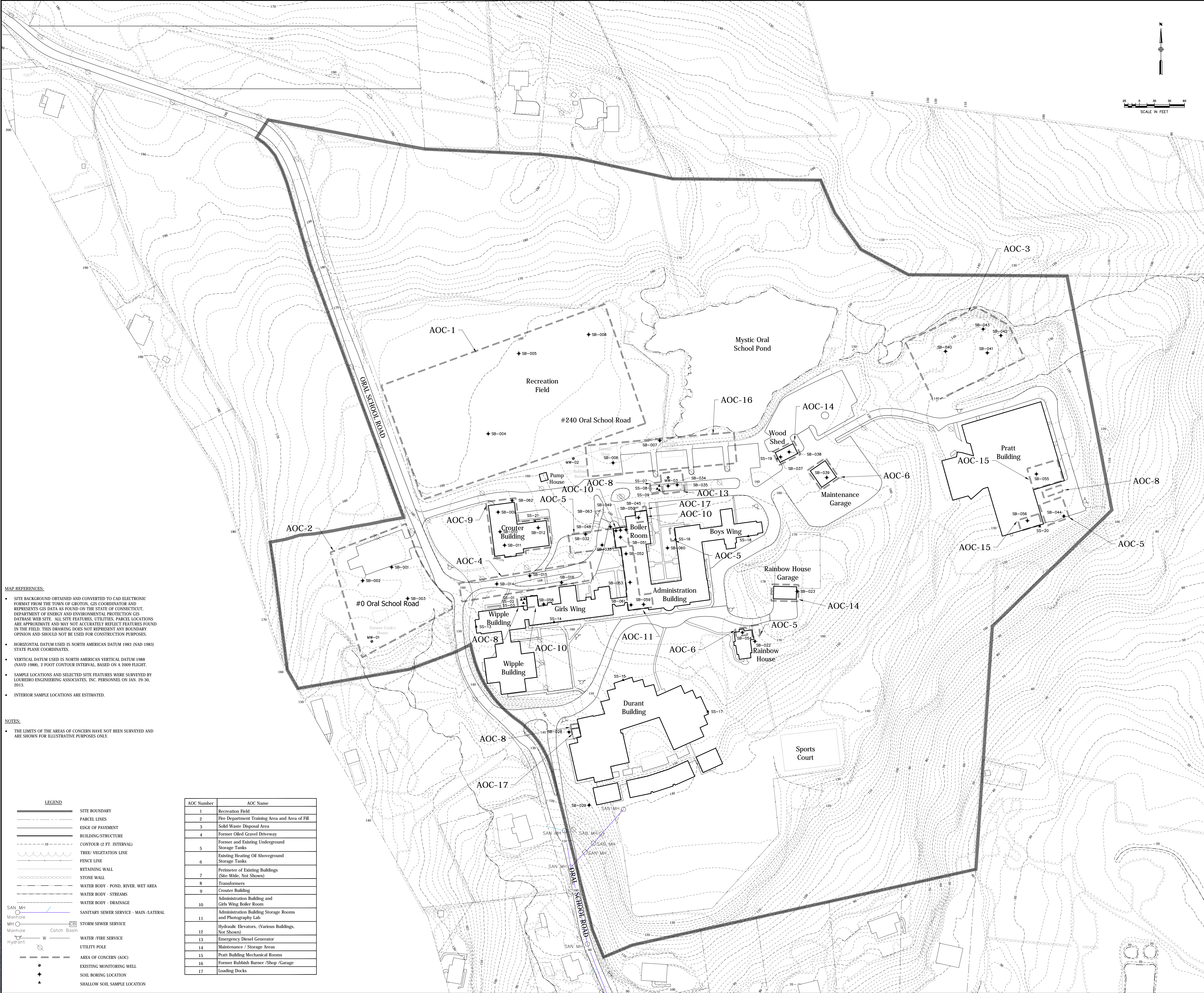
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- MAP REFERENCES:
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  - HORIZONTAL DATUM USED IS NORTH AMERICAN DATUM 1983 (NAD 1983) STATE PLANE COORDINATES.
  - VERTICAL DATUM USED IS NORTH AMERICAN VERTICAL DATUM 1988 (NAVD 1988), 2 FOOT CONTOUR INTERVAL, BASED ON A 2009 FLIGHT.
  - SAMPLE LOCATIONS AND SELECTED SITE FEATURES WERE SURVEYED BY LOUREIRO ENGINEERING ASSOCIATES, INC. PERSONNEL ON JAN. 29-30, 2013.
  - INTERIOR SAMPLE LOCATIONS ARE ESTIMATED.

- NOTES:
- THE LIMITS OF THE AREAS OF CONCERN HAVE NOT BEEN SURVEYED AND ARE SHOWN FOR ILLUSTRATIVE PURPOSES ONLY.

- LEGEND
- SITE BOUNDARY
  - PARCEL LINES
  - EDGE OF PAVEMENT
  - BUILDING/STRUCTURE
  - CONTOUR (2 FT. INTERVAL)
  - TREE/VEGETATION LINE
  - FENCE LINE
  - RETAINING WALL
  - STONE WALL
  - WATER BODY - POND, RIVER, WET AREA
  - WATER BODY - STREAMS
  - WATER BODY - DRAINAGE
  - SAN / MH Manhole
  - MANHOLE
  - HYDRANT
  - CATCH BASIN
  - WATER / FIRE SERVICE
  - UTILITY POLE
  - AREA OF CONCERN (AOC)
  - EXISTING MONITORING WELL
  - SOIL BORING LOCATION
  - SHALLOW SOIL SAMPLE LOCATION

AOC Number	AOC Name
1	Recreation Field
2	Fire Department Training Area and Area of Fill
3	Solid Waste Disposal Area
4	Former Oiled Gravel Driveway
5	Former and Existing Underground Storage Tanks
6	Existing Heating Oil Aboveground Storage Tanks
7	Perimeter of Existing Buildings (Site-Wide, Not Shown)
8	Transformers
9	Crouter Building
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13	Emergency Diesel Generator
14	Maintenance / Storage Areas
15	Pratt Building Mechanical Rooms
16	Former Rubbish Burner / Shop / Garage
17	Loading Docks

PHASE II SUBSURFACE INVESTIGATION REPORT  
FORMER MYSTIC ORAL SCHOOL FOR THE DEAF

SOIL AND GROUNDWATER  
SAMPLING LOCATIONS

5-1

SCALE  
1" = 60'  
DRAWING NO.  
184M0301

DATE  
06/22/2013

APPROVED BY  
D.N.S.

DATE  
06/22/2013

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REVISIONS

REV.	DESCRIPTION OF REVISION

DATE  
APPR.



## **APPENDIX A**

### **Loureiro Engineering Associates, Inc. Standard Operating Procedures**



**Loureiro Engineering Associates, Inc.**  
**Standard Operating Procedure**  
**for**  
**Hand Auger Borings**

**SOP ID: 10003**  
**Date Initiated: 02/20/90**  
**Revision No. 007: 05/15/02**

<b>Approved By: <u>/s/ David E. Lehnus</u></b>	<b><u>05/21/02</u></b>
<b>David E. Lehnus</b>	<b>Date</b>
<b>Senior Geologist</b>	
 <b><u>/s/ Nick D. Skoularikis</u></b>	 <b><u>05/15/02</u></b>
<b>Nick D. Skoularikis</b>	<b>Date</b>
<b>Director of Quality</b>	



## REVISION RECORD

---

<u>Rev #</u>	<u>Date</u>	<u>Additions/Deletions/Modifications</u>
Initial Issue	02/20/90	
001-005	-	No record.
006	12/31/01	Updated to reflect new SOP format. Minor revisions throughout.
007	05/15/02	Revised sections 4.5.3 (plastic sheeting) and 4.9.2 (boring abandonment with bentonite clay-grout).





**Loureiro Engineering Associates, Inc.**  
**Standard Operating Procedure**  
**for**  
**Hand Auger Borings**

**1. Purpose and Scope**

This section discusses procedures for conducting hand auger soil borings either for exploration or for the installation of monitoring wells. The procedures provided in this text outline the advancement, decontamination, abandonment, and required documentation for the completion of hand auger borings. This document was prepared in accordance with ASTM D 1452 - 80. Soil sampling for chemical analysis is covered under the *Loureiro Engineering Associates, Inc. (LEA) Standard Operating Procedure (SOP) for Soil Sampling*.

**2. Definitions**

Hand auger: a stainless steel bucket attached to a handle with flights on the tip used to dig auger manually into the soil. A hand auger is used for shallow soil borings for which a drill rig would be impractical or time consuming. A hand auger may also be preferable at locations where utilities are suspected to be present.

**3. Equipment**

3.1. Equipment required for conducting hand auger boring includes:

- Hand auger (bucket or dutch).
- Auger extensions, wrenches, and handle.
- Hand towels.
- Portable VOC analyzer (Photovac MicroTIP<sup>®</sup> or equivalent).
- Polyethylene plastic sheeting.
- Distilled water.
- Field documentation.
- Indelible marker.
- Alconox<sup>®</sup> detergent, methanol, hexane, nitric acid.
- Three 5-gallon buckets.
- Analytical balance (accurate to 0.1 gram).
- 500 ml disposable beakers.
- Decontamination brushes.





- Personal protective equipment.
- Clipboard.
- Pry bar.

#### 4. Procedure

##### 4.1. Utilities

- 4.1.1. Notify the appropriate "one call" utility notification service (e.g. Call Before You Dig at 1-800-922-4455, Contractor ID: 10502) at least three working days prior to commencing operations on a site. The locations of all proposed borings must be clearly marked in the field prior to notification. The Project Engineer/Manager **must** call and confirm that each utility has been to the site and has marked their respective lines.
- 4.1.2. On private sites, consult with the Owner or other person knowledgeable about the site as to the locations of potential private or abandoned utilities and locate these prior to beginning work. Upon the discretion of the Project Engineer/Manager, a pipe locator can also be used to assist in locating utilities.
- 4.1.3. Note that OSHA may have additional requirements for location of utilities.
- 4.1.4. All efforts to locate underground utilities (including names of owner or designee and time) should be properly documented in the field logbook prior to onset of the work scheduled.

##### 4.2. OSHA

- 4.2.1. The Senior LEA representative shall be the Competent Person required by OSHA for all work. However, this does not relieve other LEA representatives from bringing to his or her attention conditions, which may be unsafe or present a hazard to the drilling crew, the general public, or other workers on the site.

##### 4.3. Water

- 4.3.1. Water is occasionally required to maintain the stability of the boring. If water is used, the source(s), quality, and volume(s) will be recorded on the boring log.
- 4.3.2. No other drilling fluid may be used without specific authorization from the Project Manager.





#### 4.4. VOC Monitoring

- 4.4.1. A portable volatile organic compound (VOC) analyzer equipped with a photoionization detector (PID) or flame ionization detector (FID) shall be available on site and shall be used to screen all cuttings and fluids (if any) removed from the hole.
- 4.4.2. Since, in general, it cannot be presumed that a site is clean, all cuttings and/or fluids that show a reading on the VOC analyzer above background shall be containerized or drummed, as appropriate, on the site. The cuttings and fluids should also be containerized when the presence of other contaminants is suspected. Section 4.8 provides additional information on management of potentially contaminated fluids and materials.

All project-specific health and safety requirements shall be addressed in the Site-Specific Health and Safety Plan for the site.

#### 4.5. Site Preparation

- 4.5.1. A sufficient area shall be cordoned off to restrict access to the work area. This area shall be termed an "Exclusion Zone".
- 4.5.2. An equipment decontamination area shall be assembled within the exclusion zone.
- 4.5.3. The area adjacent to the proposed borehole shall be covered with 5-mil plastic sheeting (minimum area: 10 square feet). Soil cuttings shall be placed on the plastic sheeting to avoid contact with the surface of the ground.
- 4.5.4. All necessary personal protective equipment shall be donned.
- 4.5.5. Should flooring need to be breached for the advancement of the boring, coring of the floor will be conducted using a concrete coring saw and a wet-dry vacuum to prevent water and cuttings from moving beyond the immediate vicinity of the borehole.
- 4.5.6. Begin the boring by rotating and advancing the auger to the desired depth. Remove the auger and examine the soil for texture, composition, density, moisture and grain-size distribution. Record all information as described in Section 4.7.
- 4.5.7. The soils removed shall be logged in two-foot increments or at each lithologic change.





- 4.5.8. Collect a sufficient aliquot of the soil sample to satisfy all requirements for field and laboratory analysis. A lithologic sample may be required and should be collected in a 4-ounce soil jar. The procedures for collection of soil samples for chemical analysis are described in *LEA SOP for Soil Sampling*. Discard boring spoils into the appropriate containers or onto the plastic sheeting for later disposal.
- 4.5.9. The portable organic vapor analyzer used to detect VOCs shall be a Photovac MicroTIP<sup>®</sup> photoionization detector or equivalent and calibrated in accordance with the instrument's instructions. Calibration shall be performed, at a minimum, prior to each sampling event and checked after each day of sampling.
- 4.5.10. The following procedure shall be used to obtain readings of the VOCs present in a soil sample:
- 1) Obtain an aliquot of soil (approximately 50 grams) from the bottom of the auger and place it into a Ziploc<sup>®</sup> plastic bag or equivalent and seal.
  - 2) Agitate the sample, assuring that all soil aggregates are broken, for two minutes.
  - 3) Carefully break the seal of the bag enough to insert the VOC probe. Care should be taken not to absorb any soil particles or liquids.
  - 4) Record the maximum reading obtained on the appropriate forms.

#### 4.6. Decontamination

- 4.6.1. All down-hole and sampling equipment will be sufficiently decontaminated prior to use. Decontamination procedures presented in site-specific work plans may vary slightly from those presented below, dependent upon the particular types of contaminants encountered.
- 4.6.2. A section of 5-mil plastic sheeting shall be cut of sufficient size to underlie the decontamination area to contain any discharge of decontamination solutions.
- 4.6.3. The following solutions (as appropriate for the anticipated contaminants) shall be prepared and placed in 500-ml laboratory squirt bottles: methanol solution (less than 10% solution); 10% nitric acid





solution; 100% hexane solution; and distilled deionized (DI) water. A fifth solution of phosphate-free detergent and tap water (approximately 2.5 gallons) shall be prepared in a five-gallon bucket.

4.6.4. All loose debris shall be removed from the augers and spatulas into an empty 5-gallon bucket or plastic sheeting, using a stiff bristled brush.

4.6.5. The order of decontamination solutions is as follows:

- 1) Detergent Scrub.
- 2) DI Water Rinse.
- 3) Hexane Rinse (to be used only if separate-phase petroleum product, other than gasoline, is present).
- 4) DI Water Rinse.
- 5) 10% Nitric Acid Rinse (to be used only when metals are suspected as potential contaminants).
- 6) DI Water Rinse.
- 7) Methanol Rinse (<10% solution).
- 8) Air Dry.

Prior to installing each boring and at the end of the project day, all used equipment shall be decontaminated. Containerize and dispose of all spent decontamination solutions in accordance with all applicable municipal, state and federal regulations.

#### 4.7. Field Documentation

4.7.1. The following general information shall be recorded in the field log book and/or the appropriate field form(s).

- Project and site identification.
- LEA commission number.
- Field personnel.
- Name of recorder.
- Identification of borings.
- Collection method.
- Date and time of collection.
- Types of sample containers used, sample identification numbers and quality assurance/quality control (QA/QC) sample identification.
- Field analysis method(s).
- Field observations of sampling event.
- Name of collector.





- Climatic conditions, including air temperature.
- Chronological events of the day.
- Status of total production.
- Record of non-productive time.
- QA/QC data.
- Location of boring(s) on site in sufficient detail to relocate boring at a future time (include sketch).

4.7.2. The following information shall be recorded on the boring log:

- Project name, location, and LEA commission number.
- Borehole number, borehole diameter, boring location, drilling method, field crew performing work, groundwater observations, logger's name and date.
- Depth below grade, sample I.D. number, duplicate numbers, VOC analyzer reading.
- A complete sample description, including as a minimum: depth, material size gradation using the Burmister system, color, moisture, and density.
- Should a well be constructed in a bore hole, a complete well schematic shall be drawn and accurately labeled.

#### 4.8. Disposal of Potentially Contaminated Materials

- 4.8.1. Potentially contaminated cuttings or fluids, as indicated by knowledge of the site, discoloration, VOC analyzer readings, or other evidence, shall be containerized on the site pending sampling and determination of hazardous waste status.

#### 4.9. Boring Abandonment

- 4.9.1. If the boring is not to be used for other purposes (i.e. monitoring well, soil vapor probe, soil vapor extraction well, etc.), it shall be abandoned.
- 4.9.2. The boring shall be filled and sealed with a high-density bentonite clay grout.
- 4.9.3. Excess cuttings shall be containerized and sampled before disposal.
- 4.9.4. In paved areas, the upper three feet of the borehole shall be filled, up to two inches below the existing grade, with sand to allow for repairing of the pavement.





4.9.5. Pavement shall be repaired using cold patch asphalt filler or concrete.

**5. Quality Assurance/Quality Control**

5.1. All procedures documented in this SOP should be conducted to ensure quality and in accordance with LEA's *Standard Operating Procedure for Quality Assurance/Quality Control Measures for Field Activities* (SOP ID 10005)

**6. References**

None

END OF DOCUMENT





**Loureiro Engineering Associates, Inc.  
Standard Operating Procedure  
for  
Liquid Sample Collection and Field Analysis**

**SOP ID: 10004  
Date Initiated: 02/20/90  
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<b>Approved By: <u>/s/ Joseph T. Trzaski</u></b>	<b><u>12/31/01</u></b>
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## REVISION RECORD

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Initial Issue	2/20/90	
001-004	NR	No record.
005	01/15/99	No record.
006	12/31/01	Updated to conform to new SOP format. Minor revisions throughout.





**Loureiro Engineering Associates, Inc.**  
**Standard Operating Procedure**  
**for**  
**Liquid Sample Collection and Field Analysis**

**1. Purpose and Scope**

This document describes procedures to be followed for measurement of static water level elevations, detection of immiscible layers, well evacuation, sample withdrawal, and field analyses.

**2. Definitions**

2.1. Immiscible layers: The term is used to denote free-phase liquids that may be present in the aquifer as a result of a release. These liquids may have a density lighter than water (light non-aqueous phase liquids (LNAPL) or floaters) or heavier than water (dense non-aqueous phase liquids (DNAPL) or sinkers).

**3. Equipment**

3.1. Equipment required for the collection and field analysis of liquid samples includes:

- Water-level indicator (accurate to 0.01 foot). The size of the instrument depends on the size of the wells being monitored.
- Distilled water.
- Hand towels.
- Portable volatile organic compound (VOC) analyzer (Photovac MicroTIP<sup>®</sup>, Foxboro OVA<sup>®</sup> or equivalent).
- Interface probe, clear polyvinyl chloride (PVC) or fluorocarbon resin bailer (if required).
- pH and temperature meter (capable of accuracy to 0.1 pH unit).
- Specific conductivity meter.
- Bailers (clean or disposable) with disposable nylon or polyethylene rope.





- Polyethylene plastic sheeting.
- Polyethylene tubing, and appropriate pumping apparatus such as centrifugal pump, Wattera<sup>®</sup> pump with fluorocarbon resin foot valve, peristaltic pump with appropriate tubing, submersible pump or other appropriate pumping apparatus.
- Clean disposable gloves.
- Field paperwork.
- Sample collection jars.
- Indelible marker.
- Cooler(s) with ice or ice packs.
- Site-specific Health and Safety Plan (as applicable).
- Site-specific work plan, work instructions, drawings (as applicable).
- Personal protective equipment (as may be required by Site Specific Health and Safety Plan).
- Aluminum foil (if field decontamination is expected).
- Appropriate containers for collection of purge water (bucket, carboy, 55-gallon drum etc.).

#### **4. Procedures**

Immediately upon opening the well, the air in the wellhead should be sampled for VOCs using a portable VOC analyzer, such as a Photovac MicroTIP<sup>®</sup>. The well cap shall be opened slightly and the sampling port of the VOC analyzer shall be inserted into the well. The maximum reading shall be recorded on the appropriate field paperwork. The instrument shall be zeroed with ambient air prior to the measurement, and the initial and final readings shall be recorded for each well.

Measures shall be taken during well sampling to prevent surface soils from coming in contact with the purging equipment and lines. Typically, a polyethylene sheet is placed on the ground providing adequate coverage for the equipment being used.

##### **4.1. Detection of Immiscible Layers**

- 4.1.1. If the presence of immiscible layers is suspected or unknown, the sampling event shall include provisions for detection of immiscible phases prior to well evacuation or sample collection. Lighter and/or





denser immiscible phases may be encountered in a groundwater monitoring well.

- 4.1.2. An interface probe will be used to determine the existence of any immiscible layers, light or dense. Alternatively, a clear fluorocarbon resin or PVC bailer may be used to determine the existence of the phases or oil sheen in the well when no accurate determination of the immiscible layer thickness is required. For Geoprobe<sup>®</sup> wells smaller than 1" in diameter, an interface probe cannot be introduced into the well. A small diameter disposable bailer can be used to determine the existence of any immiscible layers. Alternatively the initial water purged from a well will be collected and evaluated visually for the presence of immiscible layers.
- 4.1.3. If immiscible layers were encountered, the levels of the immiscible liquids shall be measured to an accuracy of 0.02 feet using an electronic interface probe capable of detecting the interfaces between air, product, and water. The interface levels shall be recorded in the field notebook. Adjustments of the observed head to the theoretical hydraulic head shall be calculated based on the density conversion factor associated with the particular non-aqueous phase liquid.
- 4.1.4. If required, the immiscible layers and groundwater shall then be purged into 55-gallon 17H DOT drum, which shall be labeled and characterized for disposal. The immiscible layer shall be collected prior to any purging activities.

#### 4.2. Measurement of Static Water Level

- 4.2.1. The static water elevations in each well shall be measured prior to each sampling event. This is performed initially to characterize the site, and in subsequent sampling rounds to determine whether horizontal or vertical flow gradients have changed. A change in hydrologic conditions may necessitate modification of the groundwater monitoring program.
- 4.2.2. Remove the protective cover and locking cap.
- 4.2.3. Each well shall have a surveyed reference point located at the top of the well casing with the locking cap removed. The reference point shall be easily recognizable, since the personnel conducting the sampling may differ from one sampling event to the next. If no distinguishable reference point is present, the measurements shall be





taken from the highest point on the well casing. The absence of a reference point and subsequent reference point used for the measurements shall be recorded on the field paperwork.

4.2.4. The following parameters shall be measured with an accuracy of 0.01 ft:

- Depth to standing water.
- Depth to bottom of well.

4.2.5. A water-level indicator will be used for measurement. Due to possible pressure differences between the well atmosphere and the ambient atmosphere, the water level will be allowed to equilibrate for 15 minutes following removal of the well cap. The results shall be recorded in the appropriate location(s) on the appropriate field forms.

4.2.6. Total depth measurements will be compared to original depths to determine the degree of siltation that may have occurred. This information shall be noted on the field form. Should significant siltation occur in any well, the well may need to be redeveloped by an approved method. This information will also be used to confirm that the proper well is being sampled (in case of cluster wells).

4.2.7. The portion of the tape immersed in the well shall be decontaminated during retrieval using a distilled water rinse followed by drying with a clean wipe, prior to use in another well. This decontamination procedure shall be amended, as needed, to accommodate the specific type of contamination anticipated.

#### 4.3. Field Analysis

4.3.1. Parameters that are physically or chemically unstable shall be measured immediately after collection using a field test meter or other equipment. Parameters such as pH, temperature, specific conductivity, and turbidity will be measured in the field, at the temperature of the well sample. The measurement of additional parameters may be required dependent upon sampling methods or other site-specific conditions.

4.3.2. A combination of pH/temperature/specific conductivity meters shall be used. The meter shall be calibrated prior to use and at the end of the day using calibration solutions, in accordance with the instructions provided in the instrument's operating manual. Whenever a





questionable reading (“spike”) is observed the calibration shall be checked. The calibration shall be checked prior to sampling each well or well cluster. Calibration information to be recorded in the field paperwork shall include the temperature, pH, and conductivity readings in each calibration solution before and after each calibration.

The pH/temperature/conductivity meters shall be placed into a sample and allowed to stabilize for a minimum of twenty seconds. The accuracy of measurement shall be 0.1 standard units for pH, and 0.1E Celsius for temperature. For conductivity, the accuracy shall be as stipulated by the range of the instrument. The sample shall be discarded in an appropriate manner upon completion of the analysis.

4.3.3. The pH/temperature/specific conductivity meters shall be decontaminated using a distilled/deionized water rinse between each sample. To the extent possible, the same probe and meter shall be used for all measurements at a given site for the duration of monitoring at the site.

4.3.4. Turbidity of the sample will be measured using a DRT turbidimeter, Model 15C or equivalent, that has been calibrated in accordance with the instructions provided in the instrument’s manual. The accuracy of the measurement shall be to 1 NTU (nephelometric turbidity unit).

#### 4.4. Well Evacuation

4.4.1. Calculate standing water in the well based on the following schedule and record on the appropriate field form:

Well Diameter (inches)	Conversion Factor (gal/feet)
½	0.01
1	0.041
1 ¼	0.064
1 ½	0.091
2	0.163
4	0.654
6	1.47

4.4.2. Generally, a centrifugal, submersible, air-lift, bladder, inertial, or peristaltic pump equipped with a fluorocarbon resin or PVC foot valve on the end of dedicated tubing, as appropriate, may be used to evacuate the monitoring wells. Alternatively, evacuation of the wells may be accomplished using a bailer.





- 4.4.3. A new sheet of polyethylene plastic shall be placed on the ground adjacent to the well. Sampling and purging equipment, such as pump, tubing, bailers and bailer twine, containers, etc., shall be placed on the polyethylene sheet, never on the ground.
- 4.4.4. Don disposable gloves, prepare pump and tubing for insertion into the well, ensuring that any tubing or pump apparatus is of sufficient length to reach the appropriate depth for pumping. Pumping shall occur within the well screened interval as indicated on the well construction diagram. If the well construction information is not available, the bottom of the tubing or pump shall be placed 1' - 2' above the bottom of the well.
- 4.4.5. Lower the pump and/or tubing gently into the water column to the appropriate depth and begin pumping.
- 4.4.6. Measure pH, temperature, specific conductivity, turbidity and other specific parameters in the well from the first water extracted during the purging process.
- 4.4.7. Remove a volume of water equal to 3 to 5 times the standing water from the well measured into an appropriate container. Purging of the well shall occur at a slow rate to minimize agitation of the water recharging the well.
- 4.4.8. If it is not possible to remove three volumes as described above, due to slow recovery of the well, the well shall be emptied and allowed to recover. In slow-yielding wells, whenever full recovery exceeds two hours, the sample shall be extracted as soon as a sufficient volume is available for a sample for each parameter.
- 4.4.9. Measure pH, temperature, specific conductivity, turbidity and other specific parameters **prior** to sampling.
- 4.4.10. Well evacuation is deemed to be complete when the following criteria have been met:
- pH measurements vary no more than  $\pm 0.5$  standard units.
  - Specific conductivity measurements vary no more than  $\pm 10\%$ .
  - Temperature measurements vary no more than  $\pm 1$ EC.
  - Turbidity measurements (if used) are below 5 NTU, if practicable.





Alternatively well purging shall be deemed complete if a maximum of five well volumes have been removed from the well and/or other site-specific or method-specific parameters have stabilized.

- 4.4.11. Measure pH, temperature, specific conductivity and turbidity (and other specific parameters) again **after** sampling to determine the effectiveness of purging and sample stability.
- 4.4.12. Do **not** re-use purging equipment (bailers, rope, tubing, sampling vials, etc.). Any non-disposable bailers shall be returned to the office for decontamination. Pumps shall be decontaminated between monitoring wells, in accordance with procedures noted in Section 4.7.
- 4.4.13. Bailer twine and other consumables, such as filter apparatus, shall be disposed of appropriately.
- 4.4.14. Record sampler's name, sampling time, volume of water purged, parameters measured, weather conditions, sample number, analyses required and all other pertinent information on appropriate field forms, and complete the chain of custody form. The field paperwork shall also provide an indication of other field conditions that could potentially impact water levels (such as a pond being drained, or presence of a beaver dam in nearby surface water).
- 4.4.15. As dictated by project-specific requirements and/or groundwater quality considerations, any water purged from the monitoring wells shall be stored in properly labeled containers for disposal.
- 4.4.16. Storage shall be in properly labeled containers approved for storage of hazardous materials, and in an appropriate designated location at the site.

#### 4.5. Sample Withdrawal

- 4.5.1. In order to ensure that the groundwater sample is representative of the formation, it is important to minimize physical alteration (i.e. agitation during purging and/or sample collection) or chemical contamination of the sample during the withdrawal process. The sample set shall include enough dedicated bailers and sample jars to obtain samples from each well, and additional quality assurance/quality control (QA/QC) samples such as duplicates, trip blanks and equipment blanks. In addition, it is recommended to increase the supply of





sampling equipment and sample jars by about 10% to account for missing or broken glassware.

4.5.2. Use either an appropriate pump or bailer to purge each well (the same pump used for purging may be used for sample withdrawal, with the exception that samples intended for VOC analysis must be collected using either a bailer or a bladder pump.). Do not reuse a bailer in the field; used non-disposable bailers shall be returned to the office for decontamination.

4.5.3. To minimize agitation of the water column, samples shall be collected from the pump tubing in the following order into pre-labeled sample containers:

- Extractable organics (semi-volatile).
- Total petroleum hydrocarbons (TPH).
- Poly chlorinated biphenyls (PCBs).
- Metals.
- Phenols.
- Cyanide.
- Chloride and sulfate.
- Nitrate and ammonia.
- Turbidity.
- Radionuclides.

Samples to be analyzed for the following constituents shall be collected using a bailer, after any pump and tubing have been removed from the well. Removal of any down hole equipment shall be done carefully and in a manner that minimizes disturbance of the water column.

- Volatile organic compounds (VOCs).
- Purgeable organic carbon (POCs).
- Purgeable organic halogens (POX).
- Total organic halogens (TOX).
- Total organic carbon (TOC).





- 4.5.4. Samples shall be obtained from the monitoring wells as soon as possible after purging. This may require waiting an extended period for low-yielding wells.
- 4.5.5. Samples collected for VOC analysis shall be free of any air bubbles and inverted upon filling. Bacterial samples shall be collected using dedicated gloves; taking care not to allow anything to touch the inside of the sampling container.
- 4.5.6. Samples collected for dissolved metals analysis, which are to be filtered in the field, shall be passed through a 0.45 micron (maximum) filter (either in-line or under negative pressure) prior to placement in the sample bottle.
- 4.5.7. In situations where replicate samples shall be required, care shall be taken to ensure that each sample collected is independent.
- 4.5.8. In some situations, inorganic parameters may be sampled directly from a pump after completion of well evacuation procedures.

#### 4.6. Post Sampling Procedures

- 4.6.1. As required, upon completion of all sampling procedures for a particular site, secure the lid of the cooler using packaging tape with the chain of custody inside.
- 4.6.2. If the laboratory is local, transport the samples directly to the laboratory and present them to the sample manager. The representative of LEA should witness the verification of the chain of custody and obtain a carbon copy for filing in the project notebook.
- 4.6.3. If the laboratory is distant, arrange for transport with a reputable carrier service. Typically, the laboratory specifies the carrier to be used and provides the shipping papers. The cooler and samples shall be secured for transport, and all mailing documentation secured onto the top of the cooler. Unless otherwise specified, delivery shall be overnight. Friday shipments should be mailed for Saturday delivery, once confirmed that the laboratory can accept them on Saturday. The laboratory shall provide confirmation of acceptance noting the temperature of the temperature blank and any deviations from the chain of custody.





#### 4.7. Field Documentation

4.7.1. Field documentation shall include at a minimum: a chain-of-custody form, Field Data Record Groundwater Form, Sample Collection Form, Daily Field Report, Field Quality Review Checklist. Sample labels shall be used for proper sample identification.

4.7.1.1. The labels shall be sufficiently durable to withstand immersion for 48 hours without detaching and to withstand normal handling. The information provided shall be legible at all times.

4.7.1.2. The following information shall be provided on the sample label using an indelible-ink pen:

- Sample identification number.
- LEA Commission Number.
- Date and time of collection.
- Place of collection.
- Parameter(s) requested (if space permits).

4.7.1.3. A field logbook and/or appropriate field forms will be used to log all pertinent information with an indelible-ink pen. The following information shall be provided:

- Project and site identification.
- LEA commission number.
- Identification of well.
- Static water level measurement technique.
- Presence of immiscible layers and detection method.
- Time well purged.
- Collection method for immiscible layers and sample identification numbers.
- Well evacuation procedure/equipment.
- Sample withdrawal procedure/equipment.
- Date and time of collection.





- Types of sample containers used and sample identification numbers.
- Preservative(s) used.
- Parameters requested for analysis.
- Field analysis method(s).
- Whether or not field filtration was performed and the filter size, if appropriate.
- Field observations on day of sampling event.
- Record of site activities.
- Field personnel.
- Climatic conditions, including air temperature.
- Status of total production.
- Record of non-productive time.
- Name of all visitors to the site related to the project.

4.7.1.4. The chain-of-custody record shall include the following information:

- Company's name and location.
- Date and time of collection.
- Sample number.
- Container type, number, size.
- Preservative used.
- Signature of collector.
- Signatures of persons involved in the chain of possession.
- Analyses to be performed.
- Type and number of samples.

A separate entry shall be made for each sample, and within each sample each case that a different preservative is used.





4.7.1.5. The Field Data Record Groundwater Form shall be updated during the sampling of each well and include the following information:

- Identification of well.
- Well depth, diameter, depth to water.
- Static water level depth and measurement technique.
- Purge volume and pumping rate.
- Time well purged.
- LEA commission number.
- Date.

#### 4.8. Equipment Decontamination

All materials and equipment, which enter a well, must be clean and free of any potential contaminants. In general, the equipment and materials entering the well shall be unused and preferably disposable. Any items not considered disposable should be decontaminated prior to commencing field activities. If field decontamination is required, the choice of decontamination procedures shall be based upon knowledge of the site-specific contaminants and as outlined in the site-specific work plan.

For sites at which the contaminants are unknown, but contamination is suspected, the decontamination procedures outlined below shall be followed.

- 4.8.1. Prior to commencing any field activities, the following solutions (as appropriate for the appropriate contaminants) shall be prepared and placed into 500-ml laboratory squirt bottles: 10% methanol in water; 10% nitric acid in water; 100% n-hexane; distilled, de-ionized water.
- 4.8.2. In the field, prepare approximately 2.5 gallons of a solution of Alconox<sup>®</sup> (or other suitable non-phosphate laboratory grade detergent) in tap water in a 5-gallon bucket.
- 4.8.3. Prepare a piece of 5-mil polyethylene sheeting to underlie the decontamination area. The sheeting shall be of sufficient size to contain any accidental discharge of decontamination solutions. The plastic shall be bermed to contain spills.
- 4.8.4. The order for decontaminating equipment is as follows:





- 1) Detergent scrub.
  - 2) DI water rinse.
  - 3) Hexane rinse (to be used only if separate-phase petroleum product, other than gasoline, is present).
  - 4) DI water rinse.
  - 5) 10% nitric acid rinse (to be used only when metals are suspected as potential contaminants).
  - 6) DI water rinse.
  - 7) Methanol rinse (<10% solution).
  - 8) Air dry.
- 4.8.5. Materials considered disposable such as the bailer cord, pump tubing, filters, etc. shall not be decontaminated and shall be disposed of in accordance with all applicable municipal, state, and federal regulations.
- 4.8.6. Wrap each piece of decontaminated equipment in aluminum foil, as appropriate, to maintain cleanliness.
- 4.8.7. At the end of the project day, dispose of all spent decontamination fluids and materials such as the polyethylene sheeting and personal protective equipment in accordance with all applicable municipal, state, and federal regulations.

## **5. Quality Assurance/Quality Control**

Typically samples taken for Quality Assurance/Quality Control for liquid sample collection include duplicate samples, equipment blanks and trip blanks. The necessity for these samples will be outlined in the site-specific work plan. In general, all QA/QC measures taken during liquid sample collection shall be in conformance with LEA's standard operating procedure (SOP) ID 10005. Standard QA/QC measure shall include the recording of pertinent information as follows:

- 5.1. The Field Instrument & Quality Assurance Record, which is a portion of the Daily Field Report, shall include the following information:
- Instrument make, model, and type.
  - Calibration readings.
  - Calibration/filtration lot numbers.
  - Field personnel and signature.





5.2. The Field Quality Review Checklist, which is a portion of the Daily Field Report, shall assure the completeness of the sampling round and include the following information:

- Reviewer's name and date.
- Review of all necessary site activities and field forms.
- Statement of corrective actions for deficiencies.

## 6. References

- 6.1. EPA, *RCRA Groundwater Monitoring Technical Enforcement Guidance Document*, OSWER 9950.1, September 1986.
- 6.2. EPA, *Practical Guide for Groundwater Sampling*, EPA/600/2-85/104, September 1985.
- 6.3. DEP, Site Characterization Guidance Document, Draft, June 12, 2000.



END OF DOCUMENT





**Loureiro Engineering Associates, Inc.**  
**Standard Operating Procedure**  
**for**  
**Quality Assurance/Quality Control Measures**  
**for**  
**Field Activities**

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Approved By:		<u>11/05/09</u>
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## REVISION RECORD

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<u>Rev #</u>	<u>Date</u>	<u>Additions/Deletions/Modifications</u>
Initial Issue	02/20/90	
001-003	-	No record.
004	12/31/01	Updated to reflect new SOP format. Added Section 4.3, Results Evaluation. Minor revisions throughout.
005	11/05/09	Added Section 4.4 on sample management procedures. Revised signature page.





**Loureiro Engineering Associates, Inc.**  
**Standard Operating Procedure**  
**for**  
**Quality Assurance/Quality Control Measures**  
**for**  
**Field Activities**

**1. Statement of Purpose**

This document describes procedures to be followed for proper Quality Assurance Quality Control (QA/QC) practices which shall incorporate all activities associated with sampling tool and instrument preparation, field measurements and sampling, proper documentation of field and post-field activities, QC sample preparation, chain-of-custody protocol and laboratory analytical procedures. The use of specific QA/QC measures is project-specific as defined in the project work plan. This standard operating procedure (SOP) was adopted in accordance with the United States Environmental Protection Agency (EPA) document *Test Methods for Evaluating Solid Waste, Physical/Chemical Methods* (SW-846).

**2. Definitions**

- 2.1. Trip Blank: An aliquot of organic-free water or equivalent neutral reference material carried into the field but not exposed.
- 2.2. Equipment Blank: An aliquot of analyte-free deionized water processed through all sample collection equipment.
- 2.3. Replicate Samples: Samples that have been divided into two or more portions in the field.
- 2.4. Collocated Samples: Independent samples collected under identical circumstances in a way that they are equally representative of the parameter of interest.
- 2.5. Performance Evaluation (PE) Sample: A sample that mimics actual samples in all possible aspects, except that its composition is known to the auditor and unknown to the analyst.

**3. Equipment**

None





## 4. Procedure

### 4.1. General

- 4.1.1. All QA/QC sample preparation procedures shall be properly documented including:
- Name of person(s) or laboratory involved in sample preparation.
  - Reagents used.
  - Sample number.
  - Analyses required.
  - Concentration calculations.
  - Accuracy of measurements.
  - Number, type, size of containers used.
  - Preservation method.
  - Date and time of sample preparation.
- 4.1.2. All information shall be included in the field logbook and/or appropriate field forms, but not necessarily in the chain-of-custody record except as needed for proper sample identification and analysis. Blind sample numbers are being used in order not to disclose the nature of the sample to the laboratory. No information that would identify the sample as a QA/QC sample shall be included in the chain-of-custody record.
- 4.1.3. At the conclusion of each sampling day, a quality control review shall be conducted using the Field Quality Review Checklist and the Daily Field Report.

### 4.2. QC Sample Preparation

#### 4.2.1. Trip Blank

- 4.2.1.1. Contaminated trip blanks may indicate contamination of the samples during the field trip or shipment to the lab, cross-contamination between the samples, contaminated sample vials, or improper handling.
- 4.2.1.2. Trip blanks shall be used only with samples that are to be analyzed for volatile organic compounds.





- 4.2.1.3. One trip blank shall be included per shipping container (cooler) carrying sample soil and/or groundwater samples that are to be analyzed for volatile organic compounds
- 4.2.1.4. Trip blanks are prepared using analyte-free deionized organic-free water prior to field activities associated with the sampling event, usually by the laboratory providing the sampling containers. Each trip blank is placed in a 40-ml glass VOA vial and is carried in the same shipping container as the sample(s). Trip blanks should not be opened at any time during transport.

#### 4.2.2. Equipment Blank

- 4.2.2.1. The purpose of an equipment/rinsate blank is to determine if decontamination procedures were adequate or if any of the equipment might contribute contaminants to the sample.
- 4.2.2.2. An equipment blank is prepared by running analyte-free deionized water through all sample collection equipment (bailers, pumps, filters, split-spoon) and placing it in the appropriate sample containers for analysis. If equipment has been decontaminated in the field, the equipment blank shall be collected after decontamination procedures have been performed.
- 4.2.2.3. Equipment blanks shall be used when sampling surface water, groundwater, soil, and sediment.
- 4.2.2.4. One equipment blank shall be collected for each sample bottle/preservation technique/analysis procedure per matrix per sampling event, or as otherwise specified in project-specific documents.

#### 4.2.3. Replicate Samples

- 4.2.3.1. Replicate samples provide precision information on handling, shipping, storage, preparation and laboratory analysis.
- 4.2.3.2. Replicate samples are samples that have been divided into two or more portions in the field. An example of a replicate sample is two identical sample bottles filled with water from the same bailer retrieval. To ensure homogeneity, the bailer should be emptied into a clean, decontaminated beaker used exclusively





for the purpose and containing sufficient volume for both sample containers, and from that into the sample containers.

4.2.3.3. Replicate samples cannot be used when sampling for volatile organic compounds.

4.2.3.4. One replicate sample shall be obtained for each sample bottle/preservation technique/analysis procedure per sampling event or one out of every 20 samples, unless collocated samples are used (see below), or as otherwise specified in project-specific documents.

#### 4.2.4. Collocated Samples

4.2.4.1. Collocated samples provide precision information on sample acquisition, homogeneity, handling, shipping, storage, preparation and laboratory analysis.

4.2.4.2. Collocated samples are independent samples collected in such a way so that presumably they are equally representative of the parameter of interest. Examples of collocated samples are groundwater samples collected sequentially, soil core samples collected side-by-side, or air samples collected essentially at the same time from the same manifold.

4.2.4.3. Collocated samples are especially useful when sampling for volatile organic compounds, for which replicate samples cannot be used.

4.2.4.4. Collocated samples shall be obtained for each sample bottle/preservation technique/analysis procedure per sampling event or one out of every 20 samples, unless replicate samples are used (see above), or as otherwise specified in project-specific documents.

#### 4.2.5. Split Samples

4.2.5.1. The purpose of split samples is to provide an assessment of the laboratory analytical procedure.

4.2.5.2. Split samples are collocated or replicate samples sent to two (or more) different laboratories.

4.2.5.3. Split samples can be used with any sample media. Split samples can be used in conjunction with spiked samples (see





below). In case contradictory results are obtained from the samples split between different laboratories, the spiked samples can be used to verify the analytical data (provided that the spiked samples were properly prepared and the appropriate documentation is available).

- 4.2.5.4. When used, one split/spiked sample per sample bottle/preservation technique/analysis procedure per sampling event or every 20 samples shall be included, or as specified in project-specific documents.

#### 4.2.6. Spiked Samples

- 4.2.6.1. The purpose of spiked samples is to provide information on the precision of the laboratory analytical procedure. However, besides a wrong preparation, several other sources of error exist such as analyte stability, holding time and interactions with the sample matrix.
- 4.2.6.2. Spiked samples are samples spiked with the contaminants of interest. The compounds used for spiking should be of the same chemical group as the contaminants being investigated, but they do not have to be the exact chemical compounds. Spiking should be carefully designed and performed prior to the field investigations. Field matrix spikes are not generally recommended because of the high level of technical expertise required for proper preparation and documentation.
- 4.2.6.3. Can be used with any sample media, however, liquid matrices are preferred due to uniformity of mixing.
- 4.2.6.4. When used, one split/spiked sample per sample bottle/preservation technique/analysis procedure per sampling event or every 20 samples shall be included, or as otherwise specified in project-specific documents. In order to ensure defensible data, performance evaluation (PE) samples, prepared by an independent vendor, are typically being used. The ordering and handling procedures and record keeping requirements are discussed in Loureiro Engineering Associates, Inc. (LEA's) *SOP for Preparation of PE Samples* (SOP 10030).





#### 4.3. Result Evaluation

4.3.1. The analytical results on QA/QC samples should be evaluated along with the remaining analytical data as follows:

4.3.1.1. No constituents should be detected in the trip blank or equipment blank.

4.3.1.2. The relative percent differences (RPDs) shall be computed for all constituents detected in both duplicate samples used.

The RPD between two measurements (e.g., M1 and M2) is calculated as follows:

$$RPD = \frac{|M1 - M2|}{(M1 + M2)/2} \times 100\%$$

4.3.1.3. Any deviations in the performance evaluation samples shall be brought to the attention of the laboratory. An investigation shall then be performed by the laboratory of the method used, laboratory QA/QC procedures followed, and computations performed. The laboratory shall report the results of their investigation and any corrective actions taken.

#### 4.4. Sample Management

4.4.1. It is recommended that all samples be delivered or shipped to the analytical laboratory with a chain of custody form the day of collection. If this is not possible, and as a last resort only, samples may be stored in the LEA refrigerator or in the LEA freezer.

4.4.2. The intent of the freezer is to facilitate the temporary storage of soil samples collected for volatile organic compound (VOC) analysis in accordance with EPA Method 5035 when all other options have been exhausted. Options to be considered first include arranging sample pickup by laboratory courier (at LEA or at the Site) or shipping the samples to the selected laboratory at the end of each sampling day.

4.4.3. The freezer is generally intended to be used to freeze soil samples preserved with de-ionized water (DI), which represents the low VOC-level sample. It should be noted that other preservation methods exist. Please refer to LEA SOP 10057 entitled, *Collecting and Preserving*





*Soil and Sediment Samples for Laboratory Determination of Volatile Organic Compounds.*

- 4.4.4. The freezer must remain locked at all times except for brief periods during storage and retrieval of samples. The key can be requested from the Office Manager who will maintain a record of freezer usage.
- 4.4.5. Similarly, the intent of the refrigerator is to provide temporary storage of samples when other arrangements cannot be made. Storage in the refrigerator or freezer shall not under any circumstances exceed one calendar week.
- 4.4.6. A temperature log is posted on the outside door of the refrigerator. The refrigerator temperature shall be recorded, at a minimum, on a weekly basis by the LEA Lab Manager. It should be noted that the refrigerator should not be used by storing samples to its full capacity because temperature problems may be encountered.
- 4.4.7. An authorized LEA representative shall be present during pickup of the samples by a laboratory courier. Under no circumstances should the laboratory courier be allowed to pickup samples by themselves.
- 4.4.8. During pickup of the samples, the LEA representative shall verify the accuracy of the chain of custody form and the temperature recorded if any; sign the form to relinquish the samples; and ensure that the courier acknowledges receipt of the samples by his signature.
- 4.4.9. Any discrepancies noted on the chain of custody form shall be addressed during sample pickup and be brought to the attention of the Project Manager.
- 4.4.10. The refrigerator, freezer, and surrounding working space shall be kept clean and left in the same condition as found, or better.

## 5. References

- 5.1. EPA, *Test Methods for Evaluating Solid Waste, Physical/Chemical Methods* (SW-846).

END OF DOCUMENT






**Loureiro Engineering Associates, Inc.**  
**Standard Operating Procedure**  
**for**  
**Soil Sampling**


**SOP ID: 10006**  
**Date Initiated: 02/20/90**  
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**Approved By:**



**David Brisson**  
**Senior Project Geologist**

01/18/06  
**Date**



**Nick D. Skoularikis**  
**Director of Quality**

01/18/06  
**Date**



## REVISION RECORD

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<u>Rev #</u>	<u>Date</u>	<u>Additions/Deletions/Modifications</u>
Initial Issue	02/20/90	
001-004	-	No record.
005	07/19/00	Revisions to template, including new logo.
006	05/16/01	Revisions to Sections 4.2.1, 4.2.2; add Section 4.2.3.
007	07/27/01	Updated to conform with new SOP format.
008	12/31/01	Minor revisions throughout.
009	01/18/06	Removed use of wood spatula





**Loureiro Engineering Associates, Inc.**  
**Standard Operating Procedure**  
**for**  
**Soil Sampling**

**1. Purpose and Scope**

This document discusses procedures for collection of soil samples for analysis. Methods for collection and quality assurance/quality control (QA/QC) requirements are covered under separate standard operating procedures (SOPs). The procedures outlined in this document are in accordance with American Society of Testing Materials (ASTM) Standard D 420 and the Environmental Protection Agency (EPA) document entitled, *Test Methods for Evaluating Solid Waste, Physical/Chemical Methods* (SW-846). These procedures may vary slightly according to project-specific requirements.

**2. Definitions**

2.1. Field Forms: For the purpose of document and data control, a form is a document used in the conduct of company business to collect data, including approvals where required. Completed forms providing objective evidence of quality related activities are retained as quality records.

**3. Equipment**

3.1. Equipment required for the collection of soil samples shall include:

- Stainless steel spatula.
- Decontamination solutions, including distilled water, 10 percent methanol, 10 percent nitric acid.
- Hand towels.
- Polyethylene plastic sheeting.
- Sample collection jars.
- Clean disposable gloves.
- Field documentation.
- Indelible ink marker.
- Cooler, cold packs.
- Chain of custody seals and sample labels.
- Balance for weighing samples (for samples collected for the Loureiro Engineering Associates, Inc. (LEA) Analytical Laboratory, if needed).
- Utility knife.





- Re-sealable plastic bags.

#### **4. Procedures**

##### **4.1. Preliminary Sampling Procedures**

###### **4.1.1. Sample Bottles**

- 4.1.1.1. A laboratory request form shall be completed and submitted to the laboratory with the following information:
  - Project name.
  - LEA commission number.
  - Date of submittal and date needed.
  - Quantity of sample locations and sample points at each location.
  - Type(s) of samples.
  - Analytes, detection limits and QA/QC needed.
  - Cooler(s) required.
  - Number of chain of custody forms requested.
- 4.1.1.2. Check bottles against laboratory request form for completeness. The bottles should also be checked for damage and cleanliness. Confirm with laboratory personnel the adequacy of the preservatives used.
- 4.1.1.3. The total number of sample sets shall be increased by 10 percent to allow for possible breakage during transport to sites or other contingencies. At a minimum one additional sample bottle set shall be obtained per event.
- 4.1.1.4. Obtain preprinted labels and paperwork through the LEA information management system.
- 4.1.1.5. Label/date bottles in the field prior to sample collection. Check for accuracy.
- 4.1.1.6. A cooler with adequate ice or cold packs should be obtained from the laboratory to insure that the collected samples remain at 4 degrees Celsius during transport. Packing material should also be obtained to insure against breakage during transport.





4.1.2. Site Preparation

- 4.1.2.1. A level table shall be placed within the exclusion zone and covered with polyethylene sheeting.
- 4.1.2.2. Decontaminated spatulas shall be placed on the table. Sample bottles shall be placed in a convenient location and in order of sample collection.
- 4.1.2.3. PID and plastic bags shall be placed on the table for VOC screening, if necessary.

4.2. Cleaning and Decontamination

- 4.2.1. Prior to collecting a soil sample, the LEA representative will ensure that all necessary sampling equipment is clean and decontaminated according to the procedure outlined in Section 4.2.3 or according to the site specific work plan if different than below.
- 4.2.2. Upon completion of all sampling requirements and prior to leaving the site, all equipment used for sampling shall be cleaned and decontaminated according to the procedure outlined in Section 4.2.3 or according to the site specific work plan if different than below. All generated decontamination fluids shall be containerized and disposed of in accordance with the site-specific work plan and all municipal, state, and federal requirements.
- 4.2.3. The decontamination procedure of durable sampling equipment will be accomplished via swabbing the surfaces with a solvent. The order of decontamination is as follows:
  - Detergent swab.
  - DI water rinse.
  - Hexane rinse (to be used if separate-phase petroleum product, other than gasoline is present).
  - DI water rinse.
  - 10 percent nitric acid rinse (to be used only when metals are suspected as potential contaminants).
  - DI water rinse.
  - Methanol rinse (less than 10 percent solution).
  - Air dry.





#### 4.3. Sampling Procedures

- 4.3.1. All personal protective equipment (PPE) should be donned and maintained in accordance with the site-specific work plan or health and safety plan during all sampling procedures. In the event that no PPE has been specified for a particular sampling event, disposable latex gloves should be donned, as a minimum, during all sampling procedures.
- 4.3.2. The particular soil sampling device (i.e., hand auger, split spoon, etc.) shall be retrieved from the point of collection and placed on a level table covered in polyethylene sheeting.
- 4.3.3. Using a decontaminated stainless steel spatula, the soil shall be transferred directly into soil sampling containers. Care should be taken to completely fill the sample container intended for VOC analysis. Large void spaces within the container shall be minimized by packing, not agitation.
- 4.3.4. Wipe the rim of the sample container with a clean paper towel to remove excess solids, which would prevent adequate sealing of the sample container and seal the container.

The order of sample collection shall be as follows:

- Samples to be analyzed for volatile organic compounds (VOCs) at the LEA Analytical Laboratory.
  - Samples to be analyzed for VOCs using appropriate EPA methodologies.
  - Samples to be screened for total VOCs with a total volatile organic analyzer.
  - Samples to be analyzed for other organic and inorganic constituents.
- 4.3.5. As required, affix a custody seal, noting the date and time of collection across the cap/bottle interface and on the sample label. Place and secure sample within cooler and complete all sample collection documentation. Alternatively, a custody seal shall be used to seal the entire cooler rather than individual sample containers.





#### 4.4. Post Sampling Procedures

- 4.4.1. As required, upon completion of all sampling procedures for a particular site, secure the lid of the cooler using packaging tape with the chain of custody inside.
- 4.4.2. If the laboratory is local, transport the samples directly to the laboratory and present them to the sample manager. The representative of LEA should witness the verification of the chain of custody and obtain a carbon copy for filing in the project notebook.
- 4.4.3. If the laboratory is distant, arrange for transport with a reputable carrier service. Typically, the laboratory specifies the carrier to be used and provides the shipping papers. The cooler and samples shall be secured for transport, and all mailing documentation secured onto the top of the cooler. Unless otherwise specified, delivery shall be overnight. Friday shipments should be mailed for Saturday delivery, once confirmed that the laboratory can accept them on Saturday. The laboratory shall provide confirmation of acceptance noting the temperature of the temperature blank and any deviations from the chain of custody.

#### 4.5. Documentation

- 4.5.1. The following general information shall be recorded in the field log book and/or on the appropriate field forms:
  - Project and site identification.
  - LEA commission number.
  - Field personnel.
  - Name of recorder.
  - Identification of borings.
  - Collection method.
  - Date and time of collection.
  - Types of sample containers used, sample identification numbers and QA/QC sample identification.
  - Preservative(s) used.
  - Parameters requested for analysis.
  - Field analysis method(s).
  - Field observations on sampling event.
  - Name of collector.
  - Climatic conditions, including air temperature.
  - Internal temperature of field and shipping (cooled) containers.





- Chronological events of the day.
- Status of total production.
- Record of non productive time.
- QA/QC data.

4.5.2. The following information shall be recorded on the Daily Field Report QA Checklist:

- Reviewer's name, date, and LEA commission number.
- Review of all necessary site activities and field forms.
- Statement of corrective actions for deficiencies.

4.5.3. The following information shall be recorded on the chain of custody record:

- Client's name and location.
- Date and time of sample collection.
- Sample number.
- Container type, number, size.
- Preservative used.
- Signature of collector.
- Signatures of persons involved in the chain of possession.
- Analyses to be performed.
- Type and number of samples.

4.5.4. The following information shall be provided on the sample label using an indelible ink pen:

- Sample identification number.
- Date and time of collection.
- Place of collection.
- Parameter(s) requested (if space permits).

4.5.5. The following information shall be recorded on the sample collection data sheet:

- Client name, location and LEA commission number.
- Boring or sampling location identification number.
- Date and time of collection.
- Sample number.
- Depth sample was obtained.
- Field instrumentation reading.





**5. Quality Assurance/Quality Control**

- 5.1. One trip blank sample should accompany the sampling set for each field crew and each field day for which VOC samples are collected.
- 5.2. One equipment blank sample should be collected for each field crew and each field day. Equipment blank samples should be analyzed for the same suite of analytes as the soil samples.
- 5.3. For QA/QC purposes, one duplicate sample will be collected for every twenty samples. The duplicate sample set will be analyzed for the same suite of analytes as the soil samples.

**6. References**

- 6.1. ASTM Standard D 420
- 6.2. EPA, Test Methods for Evaluating Solid Waste, Physical/Chemical Methods (SW-846).

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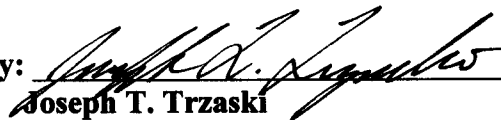
**Loureiro Engineering Associates, Inc.**  
**Standard Operating Procedure**  
**for**  
**Installing and Developing Monitoring Wells and Piezometers**

**SOP ID: 10007**

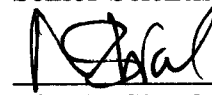
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## REVISION RECORD

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<u>Rev #</u>	<u>Date</u>	<u>Additions/Deletions/Modifications</u>
Initial Issue	02/20/90	
001-004	-	No record.
005	12/31/01	Formatting and minor revisions throughout.
006	08/12/02	Added section on utility clearance.





**Loureiro Engineering Associates, Inc.**  
**Standard Operating Procedure**  
**for**  
**Installing and Developing**  
**Monitoring Wells and Piezometers**

**1. Purpose and Scope**

This standard operating procedure (SOP) is designed to describe the methods and procedures used to install and develop monitoring wells and piezometers in a water-table aquifer. Monitoring well and piezometer installation and development shall generally follow the guidelines presented in the *"Handbook of Suggested Practices for the Design and Installation of Groundwater Monitoring Wells"* (United States Environmental Protection Agency (EPA), 1989), the *"RCRA Ground Water Monitoring Technical Enforcement Guidance Document"* (EPA, 1986), and any state or local guidance, or regulatory documents which are available.

This SOP describes general procedures and guidelines to be followed or consulted for the proper methods to be used when installing monitoring wells or piezometers in unconsolidated deposits and bedrock. Because each site is unique and the purpose of the monitoring wells may vary from installation to installation, no definitive rules can be established. Throughout this SOP reference to monitoring wells is also intended to mean piezometers unless specifically indicated otherwise. This SOP also applies to monitoring wells and piezometers installed by Geoprobe® direct push technologies.

**2. Definitions**

**Geoprobe® Direct Push Machine:** A vehicle-mounted, hydraulically-powered machine that uses static force and percussion to advance small-diameter sampling tools into the subsurface for collecting soil, vapor, or groundwater samples. Geoprobe® machines and tools are manufactured by Geoprobe Systems®, Salina, Kansas.

**Prepacked Well Screen (0.5 in and 1.5 in):** An assembly consisting of a clotted polyvinyl chloride (PVC) pipe surrounded by environmental grade sand contained within a stainless steel wire mesh cylinder. The inner component of the prepacked screen is a flush-threaded, 0.5 inch Schedule 80 PVC pipe with 0.01 in slots. (Alternatively, a 1.5 inch Schedule 80 PVC pipe can be used). Stainless steel wire mesh with a pore size of 0.011 in makes up the outer component of the prepack. The space between the inner slotted pipe and outer wire mesh is filled with 20/40 mesh silica sand. Geoprobe®





prepacked screens are available in sections of various lengths (3 ft or 5 ft) and a nominal inside diameter of 0.5 in or 1.5 in.

### **3. Equipment and Decontamination**

#### **3.1. Equipment Supplied by the Drilling Contractor:**

- Drilling rig.
- Monitoring well casing.
- Monitoring well screen.
- Bottom caps, plugs or points.
- Centering guides (if they are to be used).
- Filter pack sand.
- Bentonite.
- Cement-bentonite grout.
- Mud-scale to measure densities.
- Protective casing or road box.
- Steam-cleaning apparatus and supplies.
- Suitable containers (e.g., Department of Transportation (DOT)-approved 55-gallon drums with liners) for soil cuttings, well development water, and water generated from steam cleaning.
- Metal stamps for permanently marking wells.
- All necessary permits and licenses.
- If the Geoprobe® is used for well installation, Geoprobe®-specific equipment for well installation.

#### **3.2. Equipment Supplied by Loureiro Engineering Associates, Inc. (LEA)**

- Field forms.
- Indelible markers.
- Lock(s) and keys.
- Well development equipment (pumps, surge block, bailers, etc.).
- Analytical instrumentation (Analytical instrumentation includes, but is not necessarily limited to turbidity meters, pH meters, specific conductivity meters, and thermometers.).
- Calibration supplies for all analytical instrumentation, as appropriate.
- Alconox®, or other non-phosphate laboratory grade detergent.
- 5-gallon buckets.
- Decontamination brushes.
- Distilled, de-ionized water.
- Decontamination fluids (<10% methanol in water, 100% n-hexane, and





10% nitric acid).

### 3.3. Equipment Selection and Specifications

The following specifications will be followed:

**Cement-Bentonite Grout:** If cement-bentonite is utilized, the cement-bentonite grout will be a mixture of 95 pounds of Type II Portland cement, 4 to 6 pounds of powdered sodium bentonite, and 5 gallons of potable water. The bentonite must be thoroughly mixed with the water before the cement is added. The cement bentonite grout shall have a density of 14 pounds/gallon.

**Filter Pack Sand:** All filter pack sand will be clean, well-rounded silica sand, in factory-sealed bags. The sand will conform to the most recent version of the American Water Works Association (AWWA) Standard AWWA/ANSI A100 for water wells. In brief, the standard states that filter pack sand will have an average specific gravity of 2.5 with not more than 1% of the material having a specific gravity less than 2.25. Thin, flat or elongated particles shall not exceed 2% of the material, no more than 5% of the material shall be soluble in hydrochloric acid, and the material shall be washed and free of shale, mica, clay, dirt, loam, and organic impurities.

**Bentonite:** All bentonite will be pure, additive-free bentonite whether it is pellets, chips, or powder.

### 3.4. Equipment Decontamination

#### 3.4.1. Equipment Decontamination for Monitoring Well Installation

All well materials and drilling equipment which are used to construct a monitoring well or piezometer must be clean and free of any potential contaminants. All well construction materials not certified by LEA personnel as decontaminated when delivered will be decontaminated by steam cleaning before being installed. Drilling equipment must also be decontaminated, prior to beginning work, by steam cleaning. Geoprobe<sup>®</sup> equipment shall be cleaned using a detergent such as Liquinox<sup>®</sup>.

All decontamination activities shall be completed at a specially constructed decontamination pad (or a portable decontamination unit). The decontamination pad shall be constructed before any drilling





activity begins. The pad shall be constructed of high-density polyethylene (HDPE) liner material, of sufficient size and strength to allow the drill rig access to the pad, and bermed to contain the generated wastewaters.

3.4.2. Equipment Decontamination for Sampling Equipment and Well Development.

All materials and equipment used to sample soil or which enter a well must be clean and free of any potential contaminants. In general, the choice of decontamination procedures shall be based upon the site-specific contaminants and outlined in the site-specific work plan.

For sites at which the contaminants are unknown, but contamination is suspected, the decontamination procedures outlined below shall be followed.

- 3.4.2.1. Prior to commencing any field activities, the following solutions (as appropriate for the anticipated contaminants) shall be prepared and placed into 500-ml laboratory squirt bottles: <10% methanol in water; 10% nitric acid in water; 100% n-hexane; distilled, de-ionized water. Other chemicals may be used for decontamination of site-specific contaminants if needed for decontamination of those contaminants.
- 3.4.2.2. In the field, prepare approximately 2.5 gallons of a solution of Alconox<sup>®</sup> (or other suitable non-phosphate laboratory grade detergent) in tap water in a 5-gallon bucket.
- 3.4.2.3. Prepare a piece of 5-mil polyethylene sheeting to underlie the decontamination area. The sheeting shall be of sufficient size to contain any accidental discharge of decontamination solutions. The plastic shall be bermed to contain spills. The decontamination for Geoprobe<sup>®</sup> equipment shall be performed in buckets or in tubs.
- 3.4.2.4. The order for decontaminating equipment is as follows:
  - 1) Detergent scrub.
  - 2) De-ionized (DI) water rinse.
  - 3) Hexane rinse (to be used only if separate-phase petroleum product, other than gasoline, is present).
  - 4) DI water rinse.





- 5) 10% nitric acid rinse (to be used only when metals are suspected as potential contaminants).
- 6) DI water rinse.
- 7) Methanol rinse (<10% solution).
- 8) Air dry.

The order of decontamination may change if different chemicals are used.

3.4.2.5. Disposable materials such as cord shall not be decontaminated and shall be disposed of after use.

3.4.3. At the end of the project day, all spent decontamination fluids and materials, such as the polyethylene sheeting and personal protective equipment, shall be managed and/or disposed of in accordance with all applicable municipal, state, and federal regulations.

#### **4. Procedures**

##### **4.1. Utilities**

- 4.1.1. Notify the appropriate "one call" utility notification service (e.g. Call Before You Dig at 1-800-922-4455, Contractor ID: 10502) at least three working days prior to commencing operations on a site. The locations of all proposed borings must be clearly marked in the field prior to notification. The Project Engineer/Manager **must** call and confirm that each utility has been to the site and has marked their respective lines.
- 4.1.2. On private sites, consult with the Owner or other person knowledgeable about the site as to the locations of potential private or abandoned utilities and locate these prior to beginning work. Upon the discretion of the Project Engineer/Manager, a pipe locator can also be used to assist in locating utilities.
- 4.1.3. Note that OSHA may have additional requirements for location of utilities.
- 4.1.4. All efforts to locate underground utilities (including names of owner or designee and time) should be properly documented in the field logbook prior to onset of the work scheduled.





#### 4.2. OSHA

- 4.2.1. The Senior LEA representative shall be the Competent Person required by OSHA for all work. However, this does not relieve other LEA representatives from bringing to his or her attention conditions, which may be unsafe or present a hazard to the drilling crew, the general public, or other workers on the site.

#### 4.3. Monitoring Well and Piezometer Installation

The specific monitoring well installation methodologies are dependent upon the specific drilling method used. In general, monitoring wells will be constructed through the inside of the drill stem, once the borehole has been advanced to the desired depth. For Geoprobe® monitoring wells, the wells will be constructed through the inside of stainless steel casing.

##### 4.3.1. Borehole Advancement

If the borehole has been drilled to a depth greater than that at which the well is to be set, the borehole must be backfilled with bentonite pellets, bentonite chips, or a bentonite-cement slurry to a depth of approximately one foot below the intended well depth. Approximately one foot of clean sand must be placed on top of the backfill to return the borehole to the proper depth for the well installation.

For bedrock monitoring wells, the borehole shall be advanced to approximately one foot into competent bedrock and the isolation casing grouted into place. The grout is to be allowed to cure for at least 24 hours before drilling continues. After the grout has cured, the borehole is to be advanced using the appropriate technique (e.g., coring, air rotary, mud rotary) to the desired depth. If the borehole is advanced to a depth greater than that at which the well is to be set, the borehole shall be backfilled as described above.

For Geoprobe® installed wells and piezometers, the steel casing will be drilled to the specified depth of the bottom of the well using the Geoprobe® and in certain cases manually.

##### 4.3.2. Installation of Well Screen and Casing

The appropriate lengths of well screen (with bottom cap, or plug, or well point) and casing must be joined watertight and carefully lowered inside the drill stem to the bottom of the borehole. If centering guides are used, they must be placed at intervals around the well casing, beginning no lower than 5 feet above the top of the screen.





#### 4.3.3. Design and Installation of the Filter Pack

After the well screen and casing are installed in the borehole, the filter pack shall be installed. For monitoring wells in unconsolidated materials, the selection of the appropriate filter pack material shall be based upon a grain-size analysis of a sample collected from the intended screen interval. The selection of the appropriate filter pack material shall be based upon the methodologies presented in the *"Handbook of Suggested Practices for the Design and Installation of Groundwater Monitoring Wells"* (EPA, 1989), the *"RCRA Ground Water Monitoring Technical Enforcement Guidance Document"* (EPA, 1986), or any state or local guidance, or regulatory documents which are available. In the absence of grain size analyses, the filter pack material shall be selected based upon an experienced geologist's best judgment as to the appropriate material.

For bedrock monitoring wells, the well screen and filter pack are emplaced primarily to stabilize the borehole and are therefore not sized in the same manner as for a monitoring well in unconsolidated sediments. For typical bedrock monitoring wells, 10-slot well screen is appropriate. The selection of the appropriate filter pack material shall be based upon the slot size selected for the well screen.

A filter pack of clean silica sand will be placed around the well screen. Place the filter pack into the borehole at a uniform rate in a manner that will allow even placement of the sand. The drill stem shall be raised slowly while the sand is being placed to avoid caving of the borehole walls; the drill stem shall never be raised above the top of the filter pack during installation. Using a stainless steel weight on the end of a fiberglass tape, continuously sound the top of the filter pack as it is being installed. The filter pack shall extend from a depth of approximately one foot below the screened interval to a minimum height of one to two feet above the top of the well screen. However, this length may be adjusted if it would create the potential for cross-contamination or in the case of shallow water tables.

A finer-grained sand cap shall be installed for a minimum of one foot above the filter pack. This height may also be adjusted in the case of shallow water tables.

#### 4.3.4. Installation of Impermeable Seal

An impermeable seal at least two feet thick must be placed on top of the fine sand cap. The seal may be composed of either bentonite pellets or a bentonite slurry. The pellets must be placed into the borehole in a slow and continuous manner that prevents bridging. This is especially important in deeper monitoring wells where





the pellets may have to be emplaced through a considerable depth of standing water in the borehole.

The bentonite slurry shall be prepared by mixing approximately 15 pounds of bentonite powder with 7 gallons of water for each one cubic foot of slurry needed. The slurry shall be emplaced in the borehole via a tremie pipe. The tremie pipe must be plugged on the bottom and have openings along the sides of the bottom one foot of pipe. This will allow the slurry to be emplaced into the borehole without disturbing the fine sand cap. This procedure is especially important for the relatively deeper wells.

Verify the position of the top of the bentonite seal using a weighted tape measure. If all or a portion of the bentonite seal must be emplaced above the water table, hydrate the bentonite with clean water. Allow 30 minutes after adding the water for the bentonite to hydrate.

The thickness of the bentonite seal may be adjusted for wells completed in aquifers with shallow water tables.

#### 4.3.5. Installation of Grout Backfill

Place an annular seal of cement-bentonite grout above the bentonite seal. Install the cement-bentonite grout continuously from the bottom of the annular space to the ground surface through a tremie pipe. The tremie pipe must be plugged on the bottom and have openings along the sides of the bottom one-foot length of pipe. This will allow the grout to be emplaced into the borehole without disturbing the bentonite seal. Alternatively, a bentonite slurry can be used.

#### 4.3.6. Surface Completion

All monitoring wells will be finished at the surface with a concrete pad (Figure 1). The concrete pad shall typically be two-feet square and at least four inches thick. The concrete shall fill the borehole to a depth below the frost line. The pad shall be constructed in one continuous pour of concrete. Note that some of the cement-bentonite grout used for the annular seal may have to be removed to install the concrete pad. A survey pin may be installed in the concrete pad before it dries, if necessary.

For monitoring wells that will be completed above-grade, a locking steel protective casing shall be installed in the concrete. The protective casing shall extend at least three feet into the ground and two feet above ground. For monitoring wells that will be completed flush, a steel roadbox, suitable for traffic loads, with a gasketed cover and drain shall be installed.





Each well will be properly labeled on the exterior of the locking cap or protective steel casing with a metal stamp indicating the permanent well identifier.

#### 4.3.7. Well Protection Bollards

Guard posts may be installed in high-traffic areas for additional protection. One to four guard posts would be installed around the protective casing, within the edges of the concrete pad. If used, guard posts will consist of concrete-filled steel tubes, at least 3 inches in diameter, painted with multiple coats of epoxy-based paint to prevent rust. The guard posts would extend at least two feet below ground and approximately three feet above ground.

#### 4.3.8. Geoprobe® Prepacked Screen Monitoring Well Installation

The installation of prepacked screen monitoring wells in general follows the following four steps (Figure 2):

##### 4.3.8.1. Anchoring the Well Assembly at Depth

In the first step, an expendable anchor point is driven to the desired depth on the end of a 2.125 outside diameter probe rod string. A prepacked screen assembly is inserted into the inside diameter of the rod string with 5-ft sections of PVC riser. The screens and riser pipe are attached to the anchor point via a snap-lock connector. If the monitoring well is to have a flush-mount finish, it is suggested to prepare a large enough hole to accept a standard well protector before driving the probe rods.

##### 4.3.8.2. Providing a Sand Pack and Grout Barrier

The natural formation will sometimes collapse around the well screens as the probe rod string is withdrawn. This is frequently encountered in sandy formations below the water table. This provides an effective barrier between the screens and grout material used to seal the well annulus. If the formation does not collapse, a sand barrier must be placed from the surface while retracting the well casing. This procedure needs to be followed carefully to prevent the grout from reaching the well screens, potentially giving rise to non-representative samples.

Using a flat tape measure or water level sounder, determine the depth from the top of the PVC riser to the bottom of the annulus between the riser and probe rods. If unstable conditions have resulted in formation collapse (measured depth of 2 to 3 ft), then proceed to 4.3.8.3. If the borehole has not collapsed, then retract the casing to 1 ft above the screen while adding





sand. Take measurements with a weighted tape. Continue until 2 ft of sandpack have been established above the well screen.

#### 4.3.8.3. Installing a Bentonite Seal above the Screen

Proceed as in section 4.3.4. above. Bring the bentonite seal to within 2 ft from ground surface to allow well completion

#### 4.3.8.4. Installing Well Protection.

Proceed as in Section 4.3.6. above.

## 5. Well Development

Monitoring well development may be accomplished by surging and bailing (or pumping), or over pumping. Other methods, such as air jetting, backwashing, or air-lift pumping, shall be avoided because these methods introduce fluids into the formation and may have unexpected influences on groundwater quality, if only for a short period of time.

Immediately upon opening the well, the air in the wellhead will be sampled for VOCs using a portable VOC analyzer, such as a Photovac MicroTIP<sup>®</sup>. The well cap shall be opened slightly and the sampling port of the VOC analyzer shall be inserted into the well. The maximum reading shall be recorded on the appropriate field paperwork. The instrument shall be zeroed with ambient air prior to the measurement, and the initial and final readings shall be recorded for each well.

Measures shall be taken during well sampling to prevent surface soils from coming in contact with the purging equipment and lines. Typically, a polyethylene sheet is placed on the ground providing adequate coverage for the equipment being used.

In addition, the procedures described in LEA SOP ID 10004 in the sections for Field Analysis, Well Evacuation, and Sample Withdrawal shall be followed.

### 5.1. Surging and Bailing

In surging and bailing, a well is developed by alternately surging a short section of the screen with a tight-fitting surge block. Begin by lowering the surge block to the top of the screened interval and swab the well with a pumping action with a typical stroke of 2 to 3 feet. (Begin surging at the top of the well intake to avoid having loosened material from "sand-locking" the surge block.) Do not surge the well too violently to avoid damaging the well screen or the filter pack. Remove the surge block at regular intervals and bail (or pump) the fine material from the well. Proceed with surging throughout the length of the well screen, being careful





to avoid hitting the bottom of the well. Check the quality of the bailed water at regular intervals, as described in Section 5.3.

In cases where a considerable volume of sediment may initially be drawn into the well, begin surging the well gently in the casing above the well screen. Proceed with surging and bailing to the bottom of the screened interval.

## 5.2. Overpumping

In overpumping, a well is developed by operating a pump in the well at a capacity which greatly exceeds the formation's ability to supply water. The flow velocity into the well during overpumping usually greatly exceeds the flow velocity induced during normal sampling. This increased velocity causes movement of particles from the formation into the well.

Begin developing the well by installing a suitable pump at the bottom of the well. Alternatively, a surface-mounted pump with a suction hose may be used if the drawdown inside the well will not exceed the pump's available lift. The discharge from the pump shall be directed to approved containers. The pump (or intake hose) must be equipped with a backflow-prevention valve to prevent introducing aerated water into the aquifer.

Start the pump and discharge water at the highest practical rate. If the well runs dry, stop the pump and allow the well to recharge. Check the quality of the discharged water at regular intervals as described in Section 4.3.

## 5.3. Completing Well Development

During bailing or pumping, measure and record water quality parameters to gauge the degree and effectiveness of development. Typically, pH, temperature, specific conductivity, and turbidity shall be checked at periodic intervals (but at least every three well-volumes) until the purge water begins to appear clear. Then measurements shall be made after each well volume until the parameters stabilize. The water quality parameters may be considered stable when:

- pH, temperature, and specific conductivity of consecutive measurements have relative percent differences (RPD), as defined below, of less than 10%; and,
- The turbidity is 5 NTU or less (applicable only in aquifers with low percentages of fines. This may not be achievable in all situations, but the turbidity shall be less than 50 NTU and shall stabilize with an RPD of less than 10%).





However, in no case shall the development stop before the above criteria are met, and:

- At least 3 well volumes have been removed; or,
- The well has been surged and pumped for at least 30 minutes.

The RPD between two measurements (e.g., M1 and M2) is calculated as follows:

$$RPD = \frac{|M1 - M2|}{(M1 + M2) / 2} \times 100\%$$

All well development equipment and supplies shall be thoroughly decontaminated prior to and between each monitoring well. Place all development water into properly labeled, suitable containers; leave all filled containers in an appropriate location.

## 6. Documentation

### 6.1. Well Development

Well development activities will be documented on the appropriate field forms, and specifically on the "Field Data Record Groundwater" and "Well Development Report" forms. Information provided on those forms includes: purge method, amount of water per well volume, instrument readings after purging of each well volume.

### 6.2. Monitoring Well Completion Log Forms

During the installation of a monitoring well, complete records must be kept of quantities and types of all well construction materials used.

A complete geologic log shall be kept during advancement of the borehole for the well. The procedures for completing geologic logs are presented in *Standard Operating Procedure for Geologic Logging of Unconsolidated Sedimentary Materials* (SOP ID 10015). However, the additional information pertinent to monitoring well installations shall be recorded on a separate form. A monitoring well completion form is provided in Attachment 1. In addition typical wellhead details – one for flush-mount well completions and one for above-grade completions - are provided as Figure 1. Whenever a monitoring well is installed, record all appropriate information concerning the quantity of materials used, the





type and manufacturer of the materials, the mixtures of grouts or slurries, and any pertinent notes regarding the installation of each well.

After the project is completed, submit a copy of the attached Geologic Soil Boring/Well Completion Log Request Form along with copies of all Monitoring Well Completion forms for final typing and entry into the LEA database. The request form provides information on the types of final logs to be produced, the scale at which to plot the final forms, and notes common to all reports.

## **7. Quality Assurance/Quality Control**

Quality assurance/quality control (QA/QC) procedures will be followed in compliance with the site-specific work plan.

## **8. References**

- 8.1. EPA, *RCRA Groundwater Monitoring Technical Enforcement Guidance Document*, OSWER 9950.1, September 1986.
- 8.2. EPA, *Handbook of Suggested Practices for the Design and Installation of Groundwater Monitoring Wells*, EPA/600/4-89/034, 1989.
- 8.3. Geoprobe, *Geoprobe® 0.5-in x 1.4 in OD and 0.75 in x 1.4 in OD Prepacked Screen Monitoring Wells, Standard Operating Procedure*, Technical Bulletin No. 962000, September 1996, revised; June 2002.

END OF DOCUMENT





## **ATTACHMENT 1**

### **Monitoring Well Completion Report and Well Development Forms**

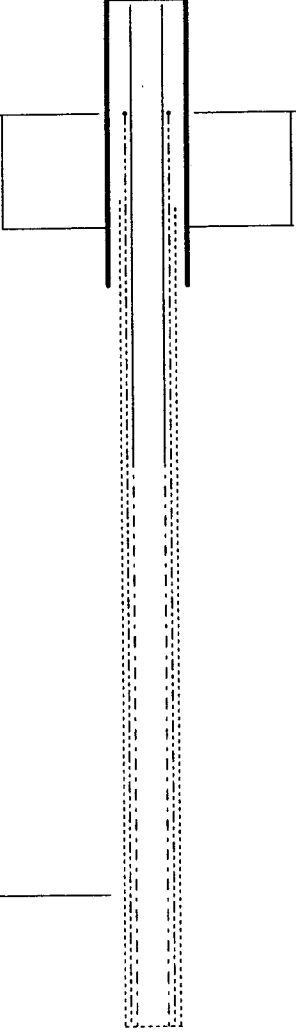




# WELL COMPLETION REPORT

<b>Project:</b> <b>LEA Comm. No.</b> _____ <b>Client</b> _____ <b>Location</b> _____ <b>Drilling Contractor</b> _____ <b>Drilling Method</b> _____ <b>Sampling Method</b> _____ <b>Groundwater Observation</b> _____ <b>Depth</b> _____ <b>at</b> _____ <b>Hours</b> _____		<b>Start Date</b> _____ <b>End Date</b> _____ <b>Logged by</b> _____ <b>Drilling Foreman</b> _____ <b>Drill Rig</b> _____ <b>GPS Latitude</b> _____ <b>GPS Longitude</b> _____	<b>Well ID</b> _____
--	--	--	----------------------

<b>Protector</b> <b>Material</b> _____ <b>Diameter</b> _____ <b>Length</b> _____ <b>Ground</b> _____ <b>Stickup</b> _____ <b>Key #</b> _____ <b>Cover Type</b> _____  <b>Top Seal</b> <b>Top</b> _____ <b>Bottom</b> _____ <b>Material</b> _____  <b>Backfill</b> <b>Top</b> _____ <b>Bottom</b> _____ <b>Material</b> _____  <b>Secondary Sand</b> <b>Top</b> _____ <b>Bottom</b> _____ <b>Size</b> _____  <b>Filter Pack</b> <b>Top</b> _____ <b>Bottom</b> _____ <b>Material</b> _____  <b>Reported depth to bottom of boring</b> _____  <b>Comments</b> _____		<b>Concrete Diameter</b> _____ <b>Concrete Thickness</b> _____  <b>Reference</b> <b>Stickup</b> _____ <b>Description</b> _____  <b>Casing</b> <b>Diameter</b> _____ <b>Material</b> _____ <b>Length</b> _____ <b>Stickup</b> _____  <b>Seal</b> <b>Top</b> _____ <b>Bottom</b> _____ <b>Material</b> _____  <b>Screen</b> <b>Top</b> _____ <b>Bottom</b> _____ <b>Material</b> _____ <b>Diameter</b> _____ <b>Length</b> _____ <b>Slot Size</b> _____  <b>Miscellaneous Materials (Quantity Used/Item)</b> <b>Cement</b> _____ <b>Bentonite Chips</b> _____ <b>Bentonite Pellets</b> _____ <b>Bentonite Powder</b> _____ <b>Grout Weight</b> _____ <b>Filter Pack Sand</b> _____ <b>Capping Sand</b> _____ <b>Well Point</b> _____ <b>Well Plug</b> _____
---	--	--



*Signature* \_\_\_\_\_



Loureiro Engineering Associates, Inc.

# FIELD SAMPLING RECORD

## WELL DEVELOPMENT

LEA Comm. No.	Page ____ of ____
Project	Date ____/____/____
Location	Time ____:____
Client	

Monitoring Well Number \_\_\_\_\_ Sample Number(s) \_\_\_\_\_

### Initial Field Data and Measurements

Depth of Well _____	Reference Used _____		
Depth to Water _____	PID/FID Reading _____		
Height of Column _____	Interface _____	Yes / No _____	If yes, Depth _____ Lighter / Heavier _____
Well Casing Diameter _____	Material _____	General Condition _____	OK _____ Bad _____
Protector _____ Road Box / Stickup _____		Casing Secure _____	
Ground to Reference _____		Collar Intact _____	
Comments _____		Cover Locked _____	
		Other (describe) _____	

### Development Information

### Purge Volume Factors

0.5" - 0.01

$1'' - 0.041$

1.5" - 0.091

 $2'' - 0.16$ 

4" - 0.65

6" - 1.5

### Initial Sample Observations

**Clear**

**Colored**

## Cloudy

**Turbid**

### Odor

## Sheen

[illegible]Development Method Peristaltic Pump / Bailer / Inertial Pump / Other

Field Decontamination?	Yes / No
------------------------	----------

### If Yes, with what?

Waste Container ID

### Additional Comments

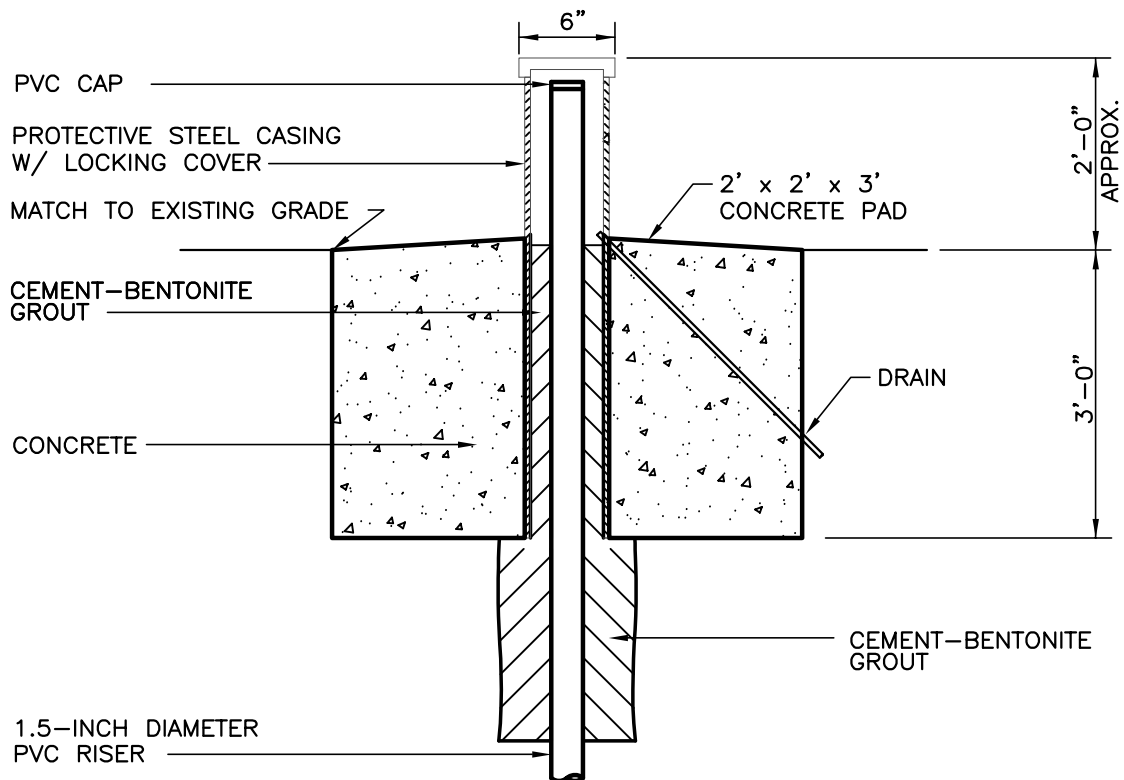
### Field Personnel

**Signature**

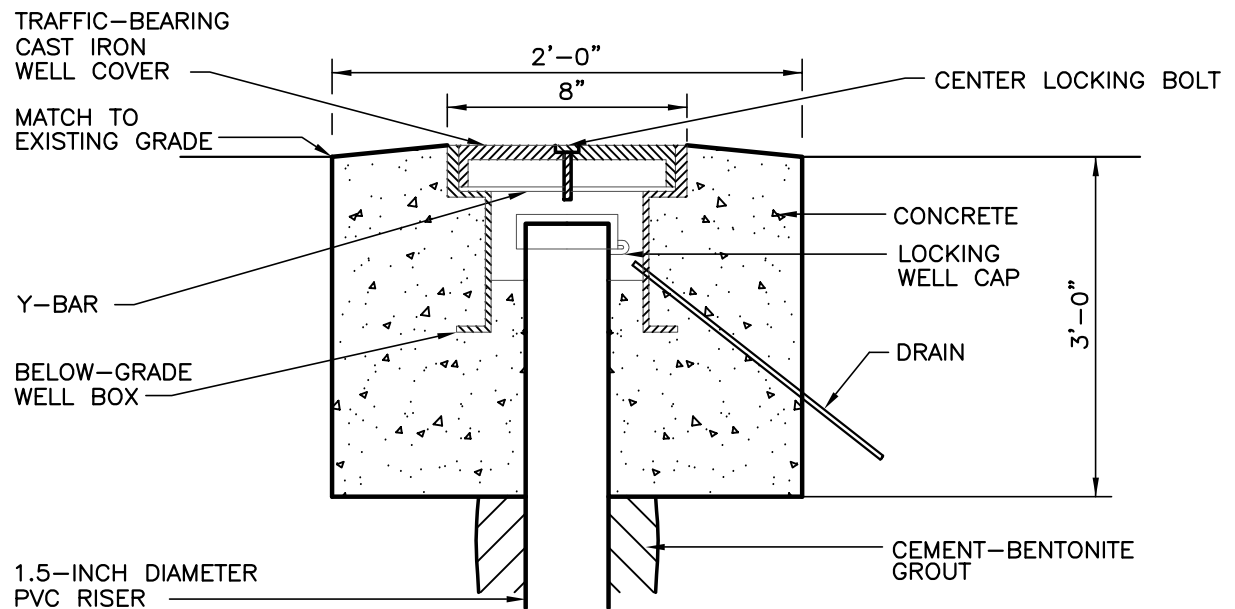


## **FIGURES**





**ABOVE GRADE WELLHEAD  
CONSTRUCTION DETAIL – NOT TO SCALE**



**FLUSH TO GRADE WELLHEAD  
CONSTRUCTION DETAIL – NOT TO SCALE**

**REFERENCES:**

EPA, "RCRA GROUNDWATER MONITORING TECHNICAL ENFORCEMENT GUIDANCE DOCUMENT", OSWER 9950.1, SEPTEMBER 1986.

EPA, "HANDBOOK OF SUGGESTED PRACTICES FOR THE DESIGN AND INSTALLATION OF GROUNDWATER MONITORING WELLS", EPA/600/4-89/034, 1989.

LEA SOP for Installing & Developing  
Monitoring Wells & Piezometers

**TYPICAL WELLHEAD DETAILS  
Modified March 2008**

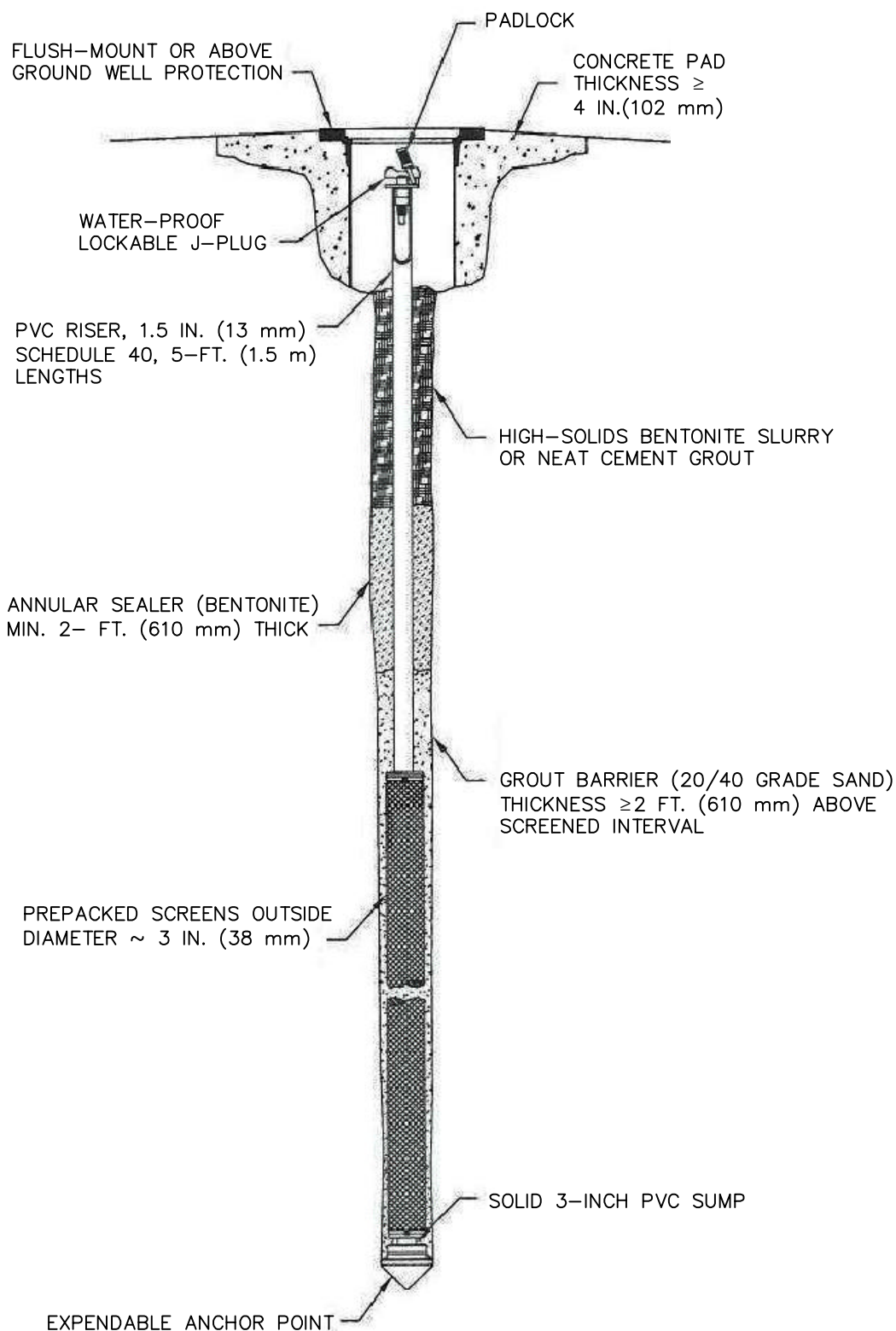
Comm.No.

100

**FIGURE 1**







ADAPTED FROM "GEOPROBE <sup>®</sup> SYSTEMS – THE COMPLETE PROBING SYSTEM", TECHNICAL BULLITEN 99250, AUG. 1999, REVISED DEC. 2002.

LEA SOP for Installing & Developing Monitoring Wells & Piezometers  
**COMPLETED PRE-PACKED SCREEN WELL**  
 Modified March 2008

Comm.No.

100

**FIGURE 2**





**Loureiro Engineering Associates, Inc.**  
**Standard Operating Procedure**  
**for**  
**Geoprobe® Probing and Sampling**

**SOP ID: 10011**

**Date Initiated: 11/10/94**

**Revision No. 006: 02/11/08**

<b>Approved By:</b> <u>/s/ David C. Brisson</u>	<u>02/11/08</u>
<b>David C. Brisson</b>	<b>Date</b>
<b>Project Geologist</b>	
<u>/s/ Nick D. Skoularikis</u>	<u>02/11/08</u>
<b>Nick D. Skoularikis</b>	<b>Date</b>
<b>Director of Quality</b>	



## REVISION RECORD

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<u>Rev #</u>	<u>Date</u>	<u>Additions/Deletions/Modifications</u>
Initial Issue	11/10/94	
001-002	-	No record.
003	06/17/97	No record.
004	07/19/00	Revisions to template, including new logo. Revisions to Sections 3, 4, 5 and 6 in order to generalize sampling procedures and reference Geoprobe <sup>®</sup> Systems' catalog and specific soil sampling standard operating procedures.
005	12/31/01	Revisions made to reflect new SOP format. Addition of QA/QC section, minor changes throughout.
006	02/11/08	Added Appendix A: Macro-Core Soil Sampling; Revisions to Section 4.13.





**Loureiro Engineering Associates, Inc.**  
**Standard Operating Procedure**  
**for**  
**Geoprobe® Probing and Sampling**

**1. Purpose and Scope**

The objective of this standard operating procedure (SOP) is to collect discrete soil samples at depth using Geoprobe® probing and sampling methodologies and to recover the samples for visual inspection and/or analysis. Procedures for soil sampling for analysis are included in *Loureiro Engineering Associates (LEA) SOP for Soil Sampling*, SOP ID 10006.

**2. Definitions**

2.1. **Geoprobe®\***: A vehicle-mounted, hydraulically-powered, soil probing machine that utilizes static force and percussion to advance small diameter sampling tools into the subsurface for collecting soil core, soil gas, or groundwater samples.

\*Geoprobe® is a registered trademark of Kejr Engineering, Inc., Salina, Kansas.

2.2. **Sampler**: A piston type soil sampler capable of recovering a discrete sample in the form of a core contained inside a removable liner.

2.3. **Liner**: A removable/replaceable, thin-walled tube inserted inside the sampler body for the purpose of containing and storing soil samples. Liner materials include brass, stainless steel, Teflon®, and clear plastic (either PETG or cellulose acetate butyrate).

**3. Equipment**

The equipment required to recover soil core samples using the Geoprobe® samplers and driving system can be found in the Geoprobe® Systems catalog for tools and equipment, as referenced in Section 6. Sample liners for the Geoprobe® samplers are available in four different materials.

Liner materials should be selected based on sampling purpose, analytical parameters, and data quality objectives. A listing of the general parts and equipment from the Geoprobe® Systems catalog for tools and equipment is provided below:





<u>Geoprobe® Tools</u>	<u>Part Number</u>
Probe Rod (4 Foot)	AT104B
Probe Rod (3 Foot)	AT10B
Probe Rod (2 Foot)	AT105B
Probe Rod (1 Foot)	AT106B
Drive Cap	AT11B
Pull Cap	AT12B
Extension Rod	AT67
Extension Rod Coupler	AT68
Extension Rod Handle	AT69
MC Drive Head	AT8510
MC Cutting Shoes	AT8530,8535,8537
MC Piston Tip Assembly	AT8570
MC Spacer Ring or Core Catcher	AT8531K,8532K
MC Sample Tube	AT8522
MC PETG Liner	AT825K
MC Combination Wrench	AT8590
MC Release Rod	AT8580
MC Extension Rod	AT671
Extension Rod Coupler	AT68
Ext. Rod Quick Links	AT694K
Ext. Rod Handle	AT69
MC Vinyl End Caps	AT726K
Liner Cutter Kit	AT8000K
Nylon Brush for Macro Tubes	BU700

#### 4. Procedure

##### 4.1. Utilities Clearance

- 4.1.1. Notify the appropriate "one call" utility notification service (e.g., in Connecticut, Call Before You Dig at 1-800-922-4455) at least three working days prior to commencing operations on a site. The locations of all proposed borings must be clearly marked in the field prior to notification. The Project Engineer/Manager **must** call and confirm that each utility has been to the site and has marked their respective lines.
- 4.1.2. On private sites, consult with the owner or other person knowledgeable about the site as to the locations of potential private or abandoned utilities





and locate these prior to beginning work. Upon the discretion of the Project Engineer/Manager, a pipe locator can also be used to assist in locating utilities.

- 4.1.3. Note that the Occupational Safety and Health Administration (OSHA) may have additional requirements for location of utilities.
- 4.1.4. All efforts to locate underground utilities (including names of owner or designee and time) should be properly documented in the field logbook or field paperwork prior to onset of the work scheduled.

#### 4.2. Health and Safety

The foreman or supervisor of the drilling crew shall be the competent person as required by OSHA for all of their work. However, this does not relieve any other LEA representative from bringing to his or her attention conditions which may be unsafe or present a hazard to the drilling crew, the general public, or other workers on the site. The LEA representative is responsible for ensuring that LEA activities are conducted in accordance with the site-specific Health and Safety Plan.

Note specific health and safety guidance regarding the operation of the Macro-Core soil sampler provided in Appendix A.

#### 4.3. Site Preparation

- 4.3.1. A sufficient area shall be cordoned off to restrict access to the work area. This area shall be termed an "Exclusion Zone".
- 4.3.2. An equipment decontamination area shall be assembled as described in Section 4.14 within the exclusion zone.
- 4.3.3. All personal protective equipment as required in the site-specific health and safety plan shall be donned.

#### 4.4. General Sampler Assembly

- 4.4.1. The sampler is connected to the leading end of a Geoprobe® probe rod and driven into the subsurface using a Geoprobe® drilling apparatus. Additional probe rods are connected in succession to advance the sampler to depth. The sampler remains sealed (closed) by a piston tip as it is being driven. The piston is held in place by a reverse threaded stop pin at the trailing end of the sampler. The first four-foot interval does not require the piston tip





assembly. In addition, if the borehole remains open, the piston tip assembly may not be required for deeper intervals. If there is evidence that the borehole is collapsing, the piston tip will be utilized.

- 4.4.2. When the sampler tip has reached the top of the desired sampling interval, a series of extension rods, sufficient to reach depth, are coupled together and lowered down the inside diameter of the probe rods. The extension rods are then rotated clockwise (using a handle). The male threads on the leading end of the extension rods engage the female threads on the top end of the stop pin, and the pin is removed.
- 4.4.3. After the extension rods and stop pin have been removed, the tool string is advanced an additional 24 to 48 inches (depending on the soil sampling system in use). The piston is displaced inside the sampler body by the soil as the sample is cut. To recover the sample, the sampler is recovered from the hole and the liner containing the soil sample is removed.
- 4.4.4. Refer to the Geoprobe® System standard operating procedures for operation of various soil sampling systems (e.g., Macro Core Piston Rod Soil Sampling System, DT21 Dual Tube Soil Sampling System, Large Bore Soil Sampling System).

#### 4.5. Pilot Hole

A pilot hole is appropriate when the surface to be penetrated contains gravel, asphalt, hard sand, or rubble. Preprobing can prevent unnecessary wear on the sampling tools. A specific Geoprobe® preprobe may be used for this purpose. The pilot hole should be made only to a depth above the sampling interval. Where surface pavements are present, a hole may be drilled with the Geoprobe® using a specific drill steel bit (AT-32, -33, -34, or -35, depending upon the thickness of the pavement), tipped with a 1.5 inch diameter carbide drill bit (AT-36) prior to probing. For pavements in excess of 6 inches, the use of compressed air to remove cuttings is recommended.

#### 4.6. Concrete Coring

Should the borehole be located on concrete, the Geoprobe® can be used to core through the concrete to gain access to the underlying soil. A carbide-tipped drill bit (AT36-39) and Geoprobe® drill steel (AT3524, 3536, 3548) will be attached to the drill assembly and utilized to core the concrete. For concrete in excess of 16 inches, other methods (i.e., a core saw) should be utilized to penetrate the concrete.





#### 4.7. Driving

- 4.7.1. Attach a probe rod to the assembled sampler and a drive cap to the probe rod. Position the assembly for driving into the subsurface. Make sure the assembled sampler is relatively perpendicular to the ground surface. A level can be utilized if drilling on uneven ground.
- 4.7.2. Drive the assembly into the subsurface until the drive head of the sample tube is just above the ground surface.
- 4.7.3. Remove the drive cap and the probe rod. Secure the drive head with a 1-inch or adjustable wrench and retighten the stop pin with a 3/8-inch wrench.
- 4.7.4. Attach a 2-foot probe rod and a drive cap, and continue to drive the sampler into the ground. Attach 3-foot probe rods in succession until the leading end of the sampler reaches the top of the desired sampling interval.

#### 4.8. Preparing to Sample

Specific instructions and photographic documentation for sampling with the Macro-Core soil sampler are provided in Appendix A.

- 4.8.1. When the sampling depth has been reached, position the Geoprobe<sup>®</sup> machine away from the top of the probe rod to allow room to work.
- 4.8.2. Insert an extension rod down the inside diameter of the probe rods. Hold onto it and place an extension rod coupler on the top threads of the extension rod (the down hole end of the leading extension rod should remain uncovered). Attach another extension rod to the coupler and lower the jointed rods down-hole.
- 4.8.3. Couple additional extension rods together in the same fashion as in Step 2. Use the same number of extension rods as there are probe rods in the ground. The leading extension rod must reach the stop-pin at the top of the sampler assembly. When coupling extension rods together, you may opt to use the extension rod jig to hold the down-hole extension rods while adding additional rods.
- 4.8.4. When the leading extension rod has reached the stop pin down-hole, attach the extension rod handle to the top extension rod.





- 4.8.5. Turn the handle clockwise (right handed) until the stop pin detaches from the threads on the drive head. Pull up lightly on the extension rods during this procedure to check thread engagement.
- 4.8.6. Remove the extension rods and uncouple the sections as each joint is pulled from the hole. The extension rod jig may be used to hold the rod couplers in place as the top extension rods are removed.
- 4.8.7. The stop pin should be attached to the bottom of the last extension rod upon removal. Inspect it for damage. Once the stop pin has been removed, the sampler is ready to be redriven to collect a sample.

#### 4.9. Sample Collection

- 4.9.1. Reposition the Geoprobe<sup>®</sup> machine over the probe rods, adding an additional probe rod to the tool string if necessary. Make a mark on the probe rod 24 inches above the ground surface (this is the distance the tool string will be advanced).
- 4.9.2. Attach a drive cap to the probe rod and drive the tool string and sampler another 24 inches. Use of the Geoprobe<sup>®</sup>'s hammer function during sample collection may increase the sample recovery in certain formations. Do not overdrive the sampler.

#### 4.10. Retrieval

- 4.10.1. Remove the drive cap on the top probe rod and attach a pull cap. Lower the probe shell and close the hammer latch over the pull cap.
- 4.10.2. With the Geoprobe<sup>®</sup> foot firmly on the ground, pull the tool string out of the hole. Stop when the top (drive head) of the sampler is about 12 inches above the ground surface.
- 4.10.3. Because the piston tip and rod have been displaced inside the sample tube, the piston rod now extends into the 2-foot probe rod section. In loose soils, the 2-foot probe rod and sampler may be recovered as one piece by using the foot control to lift the sampler the remaining distance out of the hole.
- 4.10.4. If excessive resistance is encountered while attempting to lift the sampler and probe rod out of the hole using the foot control, unscrew the drive head from the sampler and remove it with the probe rod, the piston rod and the





piston tip. Replace the drive head onto the sampler and attach a pull cap to it. Lower the probe shell and close the hammer latch over the pull cap and pull the sampler the remaining distance out of the hole with the probe machine foot firmly on the ground.

#### 4.11. Sample Recovery

- 4.11.1. Detach the 2-foot probe rod if it has not been done previously.
- 4.11.2. Unscrew the cutting shoe using the cutting shoe wrench, if necessary. Pull the cutting shoe out with the liner attached. If the liner doesn't slide out readily with the cutting shoe, take off the drive head and push down on the sidewall of the liner. The liner and sample should slide out easily.

#### 4.12. Core Liner Capping

- 4.12.1. The ends of the liners can be capped off using the vinyl end cap for further storage or transportation. A black end cap should be used at the bottom (down end) of the sample core and a red end cap at the top (up end) of the core.
- 4.12.2. On brass, stainless steel, and Teflon<sup>®</sup> liners, cover the end of the sample tube with Teflon<sup>®</sup> tape before placing the end caps on the liner. The tape should be smoothed out and pressed over the end of the soil core so as to minimize headspace. However, care should be taken not to stretch and, therefore, thin the Teflon<sup>®</sup> tape.
- 4.12.3. The soil boring identifier and depth of sample should be marked at the top of the core (on the red end cap).

#### 4.13. Sample Removal

- 4.13.1. To facilitate sample removal, each vinyl end cap can be slid off or, if there is resistance, they can be slit using a utility knife with a carpet blade. To cut vinyl end cap, slide blade under edge of cap at shallow angle and rotate the blade until cutting edge begins to cut the vinyl cap, and then draw the knife slowly toward the end of the cap. As the friction is reduced the end cap may move with the knife and become free of the sample liner.
- 4.13.2. Clear plastic and Teflon<sup>®</sup> liners can be slit open easily with a utility knife for the samples to be analyzed or placed in appropriate containers.





- 4.13.3. Brass and stainless steel liners separate into four 6 inch sections. The manual extruder may be used to push the soil cores out of the liner sections for analysis or for transfer to other containers.
- 4.13.4. The procedures for collection of soil samples for chemical analysis are described in the *Standard Operating Procedure for Soil Sampling*.
- 4.13.5. Soil samples collected for archive purposes shall be placed into soil jars and labeled with sample numbers, date, time, and LEA commission number.

#### 4.14. Equipment Decontamination and Cleaning

- 4.14.1. Prior to conducting a boring, the LEA representative will ensure that all necessary equipment is clean and decontaminated, including the rig, all augers and probing equipment, samplers, brushes, and any other tools or equipment. Decontamination procedures may vary slightly from those presented below, dependent upon the particular types of contaminants encountered.
- 4.14.2. A section of 5 mil (minimum) plastic sheeting shall be cut of sufficient size to underlie the decontamination area to contain any discharge of decontamination solutions.
- 4.14.3. The following solutions (as appropriate for the anticipated contaminants) shall be prepared and placed in 500 ml laboratory squirt bottles:
  - Methanol solution in water (less than 10 percent).
  - 10 percent nitric acid solution in water (less than 10 percent).
  - 100 percent hexane solution (to be used only if separate-phase petroleum product, other than gasoline, is present).
  - Distilled deionized (DI) water.
- 4.14.4. A fifth solution of phosphate-free detergent and tap water (approximately 2.5 gallons) shall be prepared in a five-gallon bucket. Only those solutions required for site-specific conditions will be used at a given site, as specified in the site-specific work plan.
- 4.14.5. All loose debris shall be removed from the augers and spatulas into an empty 5-gallon bucket or plastic sheeting using a stiff bristled brush.





4.14.6. The order of decontamination solutions is as follows:

- Detergent scrub.
- Distilled water rinse.
- Hexane rinse (to be used only if separate-phase petroleum product, other than gasoline, is present).
- Distilled water rinse.
- 10 percent nitric acid rinse (to be used only when metals are suspected as potential contaminants).
- Distilled water rinse.
- Methanol rinse (less than 10 percent solution).
- Air dry.

4.14.7. All sampling equipment shall be decontaminated at the beginning of each project, in between sample collection, and at the completion of the project.

4.14.8. An alternative to the procedure described above requires that the larger equipment be cleaned using a high-pressure wash and steam cleaning in an area constructed to contain spent decontamination fluid and debris (plastic sheeting bermed with timber is usually sufficient). Alternative methods of cleaning may be more appropriate for an individual piece of equipment for site conditions based upon knowledge of site contaminants, and may be used at the discretion of the LEA representative. Section 4.19 provides additional information on management of potentially contaminated fluids and materials.

4.14.9. At the end of the project day, all used equipment shall be decontaminated. All spent decontamination solutions will be handled and disposed of in accordance with all applicable municipal, state and federal regulations.

#### 4.15. VOC Monitoring

4.15.1. A portable volatile organic compound (VOC) analyzer equipped with a photoionization detector (PID) or flame ionization detector (FID) shall be available on site and shall be used to screen all cuttings and fluids (if any) removed from the hole.

4.15.2. Since, in general, it cannot be presumed that there is no contamination at a given site, all cuttings and/or fluids which show a reading on the VOC analyzer that is above background shall be containerized or drummed, as appropriate, on site. The soil cuttings should be containerized if the





presence of other contaminants (such as metals, semivolatile organic compounds) is known or suspected. Additional information on management of potentially contaminated fluids and materials is presented in Section 4.19.

#### 4.16. Sample Collection and Documentation

The following procedures will be followed for sample collection following removal from the borehole.

- 4.16.1. The sample tube shall be opened by the LEA representative and immediately scanned using the VOC analyzer using the approach described in Section 4.17.
- 4.16.2. The LEA representative will record on the boring log information described in Section 4.18.2.
- 4.16.3. Prior to reuse, the sampler shall be decontaminated using the procedures described in Section 4.14.
- 4.16.4. Soil samples collected for archival purposes shall be placed into soil jars and labeled with the sample number, date, time, and LEA commission number.
- 4.16.5. The procedures for collection of soil samples for chemical analysis are described in the *Standard Operating Procedure for Soil Sampling*.

#### 4.17. Field Analysis

- 4.17.1. The following procedure shall be used to obtain readings with a portable VOC analyzer of the VOCs present in a soil sample:
  - Obtain an aliquot of soil (approximately 50 grams) from the split spoon and placed into a plastic bag or equivalent and sealed.
  - Agitate the sample, assuring that all soil aggregates are broken, for at least two minutes.
  - Carefully break the seal of the bag enough to insert the VOC probe.
  - Record the maximum reading obtained on the appropriate forms, as described in Section 4.18.

#### 4.18. Field Documentation





4.18.1. The following general information shall be recorded in the field log book and /or appropriate field forms:

- Project and site identification.
- LEA commission number.
- Field personnel.
- Name of recorder.
- Identification of borings.
- Collection method.
- Date and time of collection.
- Types of sample containers used, sample identification numbers and QA/QC sample identification.
- Field analysis method(s).
- Field observations on sampling event.
- Name of collector.
- Climatic conditions, including air temperature.
- Chronological events of the day.
- Status of total production.
- Record of non-productive time.
- QA/QC data.
- Name of drilling firm.
- Location of boring(s) on site in sufficient detail to relocate boring at a future time (include sketch).

4.18.2. The following information shall be recorded in the boring log:

- Project name, location, and LEA commission number.
- Borehole number, borehole diameter, boring location, drilling method, contractor, groundwater observations, logger's name and date.
- Depth below grade, sample number, duplicate numbers, VOC analyzer reading, rig behavior (i.e., drilling effort, etc.).
- A complete sample description following SOP ID 10015, *Geologic Logging of Unconsolidated Sedimentary Deposits*. This will include, as a minimum: depth, material size gradation using the Burmister system, color, moisture, and density. Should a well be constructed in a borehole, a complete well schematic shall be drawn and accurately labeled.
- Use of water, including source(s) and quantity.





4.18.3. The following information shall be recorded on the QA Checklist provided in the Daily Field Report:

- Review of all necessary site activities and field forms.
- Statement of corrective actions for deficiencies.

4.18.4. Any instrument calibration information shall be recorded in the "Instrument Calibration" section provided in the Daily Field Report, and shall include the following information:

- Instrument make, model, and type.
- Calibration readings.
- Standards and backgrounds used for calibration.

#### 4.19. Disposal of Potentially Contaminated Materials

Potentially contaminated cuttings or fluids, as indicated by knowledge of the site, discoloration, VOC analyzer readings, or other evidence, shall be containerized on-site pending sampling and determination of hazardous waste status.

#### 4.20. Refusal

Refusal is defined as failure to penetrate the subsurface materials to any greater depth using the maximum reasonable pressure limits of the Geoprobe<sup>®</sup> machine.

#### 4.21. Bedrock

The term "bedrock" will not be used in a boring log or other description of subsurface materials that have been collected using the Geoprobe<sup>®</sup> machine, since a confirmatory core cannot be collected.

#### 4.22. Boring Abandonment

- 4.22.1. If the boring is not to be used for other purposes (i.e., monitoring well, soil vapor probe, soil vapor extraction well, etc.) it shall be abandoned.
- 4.22.2. The boring shall be filled and sealed with neat cement grout or high-density bentonite clay grout as soon as the tools are withdrawn from the borehole.
- 4.22.3. Excess cuttings shall be containerized, labeled and the analytical data of the contents reviewed/profiled before disposal.





4.22.4. In paved areas, the upper three feet of the borehole shall be filled, up to two inches below the existing grade, to allow for repairing of the pavement.

4.22.5. Pavement shall be repaired using cold patch asphalt filler or concrete.

## 5. Quality Assurance/Quality Control

Quality assurance/quality control (QA/QC) procedures shall comply with the procedures described in LEA SOP ID 10004. QA/QC samples, if required, (including performance evaluation samples, equipment blank samples, trip blank samples, and field duplicate samples) shall be collected according to the site-specific work plan.

## 6. References

- 6.1. Geoprobe® Systems, 1997, *1998-1999 Tools and Equipment Catalog*.
- 6.2. Geoprobe® Systems, *Geoprobe<sup>®</sup> Macro-Core Soil Sampler Standard Operating Procedure*, Technical Bulletin No. 95-8500, prepared 11/95, as revised.
- 6.3. Geoprobe® Systems, *Geoprobe<sup>®</sup> DT21 Dual Tube Soil Sampling System, Continuous Core Soil Sampler Standard Operating Procedure*, Technical Bulletin No. 982100, 09/98.
- 6.4. Geoprobe® Systems, *Geoprobe<sup>®</sup> Large Bore Soil Sampler, Discrete Interval Soil Sampler Standard Operating Procedure*, Technical Bulletin No. 93-660, prepared 09/96, revised 04/98.

END OF DOCUMENT





## **Appendix A**

### **Soil Sampling Practices with Macro-Core Soil Sampler**





In the top photo the worker is tapping the internal threads of the drive head into which the Macro-Core (MC) Stop-Pin assembly will be screwed. This task is necessary as the threads tend to become distorted over time due to the constant pounding they endure. **IMPORTANT:** This is one of the most crucial steps in the MC Piston Rod assembly process as it increases the likelihood that the Stop-Pin assembly will easily disengage (unscrew) when it comes time to remove it so that the point assembly can be released and the soil sample obtained. It must be performed each time that the MC system is assembled. The external threads on the drive head and drill casings also need to be maintained on a regular basis. Brushing the threads before each use helps to keep the threads clean and free of built-up dirt. A little Crisco shortening on the threads also seems to help keep them from binding up.





In these photos the focus is on the cutting shoe and the piston rod point assembly. As is the case for all of the equipment, the cutting shoe and piston rod point assembly need to be in very good condition. The key is that once assembled the piston rod point must extend out beyond the lip on the cutting shoe. The rod point should also fit tightly into the cutting shoe. If not it is likely that dirt will push up around the piston point and up into the cutting shoe. This will put unwanted pressure on the MC piston rod making it unlikely that the MC Stop-Pin assembly will unscrew easily when the time comes to remove it. **IMPORTANT:** Keep in mind that when the soil sampling system is in the ground upward pressure is being placed on the piston rod point, which puts pressure on the MC piston rod which in turn puts pressure on the MC Stop-Pin Assembly. Thus before you try to remove the MC Piston Rod make sure that you raise the entire system an inch or so to take pressure off of the piston rod point.





Once the MC piston rod is inserted into the sample tube a pair of Vise-Grips is usually attached to the MC Extension Rod Quick Link Connector (the end of the rod) and used to screw in the MC Stop-Pin assembly. Geoprobe® does offer tools for this task, however it is felt that these tools have handles that are too short and as such do not provide enough leverage. **IMPORTANT:** Once the stop pin is fully tightened back it off slightly by about 10 degrees. This is yet another crucial step that will increase the likelihood of the piston rod coming out easily.





Note the worker holding the pipe wrench in the top left photo. This is used to prevent the sample tube from falling down the hole. It is often wrested atop the operator's foot or the Geoprobe® foot. Steel-toed boots really help in this case. One word of caution, you should avoid placing your fingers between the wrench and the ground as shown in the top left photo. In the next several photos extension rods with Quick Link couplers are being inserted so that the MC Piston Rod can be removed. Once again Vise-Grips are the tool of choice for unscrewing the MC Piston Rod. If we have done all of our preventative maintenance the MC Piston Rod should unscrew with minimal effort. Some force might be needed to “pop” it loose but not too much.

**IMPORTANT:** When you are sampling at greater depths you will have to use several extension rods to get the MC Piston Rod out. Keep in mind that these smaller diameter extension rods tend to torque as you try to unscrew the MC Piston Rod. Should you let go under these conditions the extension rods and




any tool (Vise-Grip) attached to them are going to want to “unwind” and “snap back”. This could result in a part of your body getting smacked by the Vise-Grip with the potential for injury being very high. To prevent this never apply excessive force when trying to disengage (unscrew) the piston rod and never simply let go of the Vise-Grip after applying force. If the piston rod does not unscrew easily the safest decision is to pull up the sample tubes a section at a time until you can work directly on the MC Piston Rod and MC Stop-Pin Assembly directly.

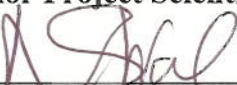
(This information can be found in greater detail in Geoprobe’s® Technical Bulletin No. 95-8500)



**Loureiro Engineering Associates, Inc.**  
**Standard Operating Procedure**  
**for**  
**Geologic Logging of Unconsolidated Sedimentary Materials**

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Approved By:  1/15/02  
Kimberly C. Clarke  
Senior Project Scientist  
Date

 1/15/02  
Nick D. Skoularikis  
Director Of Quality  
Date



## REVISION RECORD

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Initial Issue	12/27/94	
001	11/20/96	No record
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**Loureiro Engineering Associates, Inc.**  
**Standard Operating Procedure**  
**for**  
**Geologic Logging of Unconsolidated Sedimentary Materials**

**1. Purpose and Scope**

This document presents the methods and procedures used to describe unconsolidated sedimentary materials for geological purposes in a uniform and consistent manner. It includes procedures for properly recording the observations by providing guidelines for completing boring logs and submitting those logs for computer entry. This Standard Operating Procedure (SOP) refers only to geologic logging of soils and sediments (including artificial fill and other man-made deposits) and specifically is not intended to describe logging of soils or sediments for geotechnical or other engineering purposes. Although the SOP presents a system for describing sediments, it is not intended to be a definitive reference for classifying sedimentary materials, nor is it intended to replace experience or training. Individuals using this SOP should be trained and competent in field methodologies and geologic logging prior to commencing field activities.

**2. Definitions**

2.1. None

**3. Equipment**

3.1. Equipment required for the geologic logging of soil/sediment samples shall include the following items:

- Tape measure or scale.
- Hand lens.
- Color chart.
- Grain-size comparator.
- Field forms.
- Indelible marker(s).
- Small table.
- Field Paperwork.
- Clipboard.





## 4. Procedures

### 4.1. Sample Collection

Samples of soil and unconsolidated sedimentary materials will be collected in general accordance with the SOPs for Soil Sampling (SOP ID 10006), Hand Auger Borings (SOP ID 10003), Hollow Stem Auger Soil Borings (SOP ID 10008), and Geoprobe® Probing and Sampling (SOP ID 10011). Those SOPs include procedures for decontamination of equipment required for sample collection, as well as providing the methodologies for sample collection and documentation.

### 4.2. Descriptions of Unconsolidated Sedimentary Materials

#### 4.2.1. General Sediment Description Guidelines

For the purposes of geologically logging unconsolidated soils and sedimentary materials, a Modified Burmister method of description and classification should be used. The Modified Burmister Sediment Classification System (or simply, Burmister System) is intended as a rapid field method for identifying and classifying sediments. The system is based upon visual identification of the generalized grain-size distribution and description of the physical characteristics of the sample.

A Burmister System description is comprised of three parts: a color descriptor; a grain-size descriptor; and modifier(s). The color descriptor indicates the overall color or colors of the wet sample. The descriptor consists of a color name or names and (if possible) the color code from a standard color reference (for example, a Munsell<sup>7</sup> Color Chart). The grain-size description indicates the predominant grain size in the sample, as well as the relative percentages of other grain sizes present.

Modifiers are used to further describe the geologic character of the sample. Modifiers may include descriptions of moisture content, sorting, sphericity, angularity, sedimentary structures or other pertinent information.

#### 4.2.2. Color Description

The color of the wet sediment should be determined with reference to a standard color comparator (for example, a Munsell<sup>7</sup> Color Chart) for rocks or sediment. The included color descriptor should contain both the color name and, when a color comparator is used, the appropriate hue-chroma value code, for example "Reddish brown (5YR 4/4)". The



color of a sample should always be gauged when the sample is wet, or it should be noted otherwise.

#### 4.2.3. Predominant Grain-Size Description

The first step in describing a sediment sample is visually estimating the size range and percentage of the various grain sizes in the sample. Reference should be made to standard geologic comparators for assessment of the grain size(s).

The primary grain-size descriptor indicates the predominant grain size, as judged visually, of the sample. The descriptor is always capitalized and underlined. Possible descriptors include: CLAY, SILT, SAND, and GRAVEL (GRANULES, PEBBLES, COBBLES, and BOULDERS). These correspond to the standard Wentworth size-classification scheme used for describing sediments for geologic purposes. Size classifications for CLAY through GRAVEL are presented in Table 1. The descriptor should also include an indication of the relative size range of the sample within the predominant grain size (for example, "fine-to-medium sand", "coarse sand", etc.). Although Table 1 includes divisions of the silt category, this is applicable only to sediment samples analyzed by pipette or hydrometer and cannot be distinguished in the field.

The presence of other grain sizes, in addition to the predominant material is also included in the grain-size descriptor. Appropriate grain sizes are the same as for the predominant grain size of the material (clay, silt, etc.), however only the initial letter of the word is capitalized. The description should also include an indication of the relative amount of the minor components. Appropriate indicators for the relative percentages present are provided in Table 2.

It is generally not considered possible to visually distinguish between clay and silt. Estimation of the silt/clay content of a sample should be based upon the plastic properties of the sample. The plastic properties of the sample may be estimated by taking an approximately 1 cubic centimeter ball of the sediment and attempting to roll a thread of the material between the palms of the hand. The minimum size of the thread which may be rolled may be compared to the values presented in Table 3 and the plasticity estimated. A comparison of the minimum thread diameter which may be formed with the information presented in Table 3 provides an approximate silt/clay content estimate for sand-silt-clay sediments and composite clay sediments.





#### 4.2.4. Modifiers

Various modifiers may be added to the basic sediment description to further describe the geologic character of the sample.

For sand or coarser-sized material, the relative degree of sorting, the sphericity, and angularity should also be recorded. Sorting may be visually estimated. Sphericity and angularity, however, should be made with reference to an accepted comparator. A chart illustrating various degrees of sphericity and angularity is attached as Figure 1.

The mineralogy of the sample should also be recorded. Reference should be made to the relative percentages, grain size(s), and sphericity of the mineral particles (especially where it differs significantly from that of the predominant grain-size material).

Other information which should be recorded for each sample includes an estimate of the density and cohesiveness of the sample (made from blow counts where applicable, or other specific instrumentation where appropriate), the relative moisture content of the sample, visible sedimentary structures, and any odors or staining noticeable during logging. Tables 3 and 4 present appropriate terms for describing the plasticity, density, and cohesiveness of sediment samples.

Especially important is an indication that a specific portion of the material may represent "sluff" or material collapsed from the borehole walls.

#### 4.3. Written Sediment Descriptions

The written sediment description may be made as either an unabbreviated or an abbreviated description. Both methods should relate the same information, however the abbreviated description is better suited for field use.

In an unabbreviated description, all of the words of the description should be written out in their entirety. The descriptor should include pertinent information regarding the sample's size gradation, consistency, color, and relative grain size, as described previously. The color descriptor should precede the primary sediment component name, while additional details such as the plasticity, mineralogy, visible sedimentary structures, etc., should follow the sediment component name.

An example of an unabbreviated description is:



**Red-brown (5YR 4/4), fine to coarse SAND, little fine Gravel, little Silt, moist, moderately well sorted, low sphericity, Gravel waterworn, Sand subangular, micaceous.**

Since the Burmister system is intended to provide a means for describing uniform sediments, three "special" cases should be addressed.

**First**, the Burmister system is intended only to describe the sediment. Where a genetic classification of the material is significant, it should be added as a separate statement at the end of the description. For example:

**Olive gray (5Y 4/2), coarse to fine SAND, some fine Gravel, little Silt, moist, poorly sorted, sub-rounded to angular, dense. TILL.**

A genetic classification should only be used when the origin of the material is very clear and not simply a field interpretation of possible depositional environment.

**Second**, in the case where the sediment sample is heterogeneous (for example, a varved silt and clay), each component should be described individually, and reference should be made to the relative percentages of each component and to the interlayering. For example:

**Soft, reddish-brown (5YR 3/4), CLAY and SILT, alternately layered, medium to high overall plasticity. Layers: CLAY layers, 3/8" to 5/8" thick, comprise 60%" of sample. SILT layers, 1/8" to 3/8" thick, comprise 40%" of sample. VARVED CLAY and SILT.**

**Third**, when one material grades uniformly into a distinct sediment type, the individual components should be described separately and the gradation noted. For example:

**Soft, reddish-brown (5YR 3/4), CLAY, medium overall plasticity, grading into soft, reddish-brown (5YR 4/4), SILT, trace Clay, low overall plasticity.**

In the abbreviated sediment descriptions, the sample information is presented in a manner analogous to that for the unabbreviated description substituting standard



abbreviations for specific portions of the text. Abbreviations for the identifying terms in the Burmister system are presented in Tables 2, 3, and 4. Mineralogic and geologic abbreviations may be found in standard geologic and mineralogic texts and field manuals. Except for the use of abbreviations, the abbreviated description is completely analogous to the unabbreviated description.

For the sake of consistency in describing unconsolidated sedimentary materials, the description should follow the order and general definitions presented in Table 5.

#### 4.4. Recording Descriptions

##### 4.4.1. Geologic Boring Logs

Attached to this SOP is a copy of LEA's standard geologic boring log form. This log should be completed for each boring that is completed. The heading information is self-explanatory. The body of the log contains space for information for each sampled interval in the boring. The following information should be recorded:

Depth Interval	The upper and lower depths from which the sample was collected.
Sample No.	The sample number, as obtained from LEA Data Management, assigned to this sample.
Recovery	The length of the recovered sample and the length of the sampler (in consistent units). The percent recovery will be calculated by the LEA Data Management program.
Blows/6"	The number of blow counts per 6" interval for the sample. Alternately, the downhole pressure or other pertinent information regarding the required drilling or sampling force.
Sample Description	The sample description using the guidelines and order presented in Section 3.0 and Table 5.
PID/FID	The headspace reading from a PID or FID in ppm.

The comments section of the form should be used to record general observations regarding drilling conditions, backfilling of the borehole, or other pertinent information regarding drilling the borehole.





4.5. Computer Data Entry

After a project is completed, copies of the Geologic Boring Log forms should be submitted for computer data entry. A completed copy of the Geologic Soil Boring/well Completion Log Request Form should be attached to the log forms.

**5. Quality Assurance/Quality Control**

- 5.1. Soil and sediment logging will be conducted in accordance with this SOP to ensure quality and consistency in field activities.
- 5.2. Field paperwork will be reviewed by office staff personnel and/or project manager to ensure completeness and accuracy in logging records.

**6. References**

- 6.1. None

END OF DOCUMENT





TABLE 1  
Wentworth Size Classification System

US Standard Sieve Sizes	Millimeters	Microns	Phi (N)	Wentworth Size Classification	
Use Wire Squares	4096	4,096,000	-20	Boulder	GRAVEL
	1024	1,024,000	-10		
	256	256,000	-8		
				Cobble	
	64	64,000	-6		
				Pebble	
	16	16,000	-4		
5	4	4,000	-2		
				Granule	
6	3.36	3,360	-1.75		
7	2.83	2,830	-1.50		
8	2.38	2,380	-1.25		
10	2.0	2,000	-1.00		
				Very Coarse Sand	SAND
12	1.68	1,680	-0.75		
14	1.41	1,410	-0.50		
16	1.19	1,190	-0.25		
18	1.00	1,000	0.00		
				Coarse Sand	
20					





TABLE 1  
Wentworth Size Classification System

US Standard Sieve Sizes	Millimeters	Microns	Phi (N)	Wentworth Size Classification
	0.84	840	0.25	
25	0.71	710	0.50	
30	0.59	590	0.75	
35	0.50	500	1.00	
40	0.42	420	1.25	Medium Sand
45	0.35	350	1.50	
50	0.30	300	1.75	
60	0.25	250	2.00	
70	0.210	210	2.25	Fine Sand
80	0.177	177	2.50	
100	0.149	149	2.75	
120	0.125	125	3.00	
140	0.105	105	3.25	Very Fine Sand
170	0.088	88	3.50	
200	0.074	74	3.75	





TABLE 1  
Wentworth Size Classification System

US Standard Sieve Sizes	Millimeters	Microns	Phi (N)	Wentworth Size Classification	
230	0.0625	62.5	4.00		
				Coarse Silt	MUD
270	0.053	53	4.25		
325	0.044	44	4.50		
Analyzed by Pipette or Hydrometer	0.037	37	4.75		
	0.031	31	5.0		
				Medium Silt	
	0.0156	15.6	6.0		
				Fine Silt	
	0.0078	7.8	7.0		
				Very Fine Silt	
	0.0039	3.9	8.0		
				Clay (Note: Some use 2: (or 9N) as the clay boundary.)	
	0.0020	2.0	9.0		
	0.00098	0.98	10.0		
	0.00049	0.49	11.0		
	0.00024	0.24	12.0		





TABLE 1  
Wentworth Size Classification System

US Standard Sieve Sizes	Millimeters	Microns	Phi (N)	Wentworth Size Classification
	0.00012	0.12	13.0	
	0.00006	0.06	14.0	





Table 2  
Modified Burmister System Descriptors

Fractions		Proportion Descriptors		
(+)	Major Fraction	Quantity	Descriptor	Abbreviation
(-)	Minor Fraction	35% - 50%	and	a
e.g., a medium to coarse SAND which is predominantly medium grained would be written as: m(+)-c SAND		20% - 35%	some	s
		10% - 20%	little	l
		1% - 10%	trace	t
		Modifiers: (+) Upper a of the range (-) Lower a of the range		

Table 3  
Plasticity of Sediment Samples

Material	Symbol	Feel	Ease of Rolling Thread	Minimum Thread Diameter	Plasticity Index	Plasticity
Clayey SILT	CyM	Rough	Difficult	1/4"	1 to 5	Slight (Sl)
SILT & CLAY	M & C	Rough	Less Difficult	1/8"	5 to 10	Low (L)
CLAY & SILT	C & M	Smooth, dull	Readily	1/16"	10 to 20	Medium (M)
Silty CLAY	MyC	"Shiny"	Easy	1/32"	20 to 40	High (H)
CLAY	C	Waxy, very shiny	Easy	1/64"	40 +	Very High (VH)

Table 4  
Density and Cohesiveness of Sediment Samples

Density of Cohesionless Soils		Consistency of Cohesive Soils	
Blow Counts	Relative Density	Blow Counts	Consistency
0 to 4	Very Loose	0 to 2	Very Soft
5 to 9	Loose	2 to 4	Soft
10 to 29	Medium Dense	4 to 8	Medium
30 to 49	Dense	8 to 15	Stiff
50 to 79	Very Dense	15 to 30	Very Stiff
80 or more	Extremely Dense	30 or more	Hard



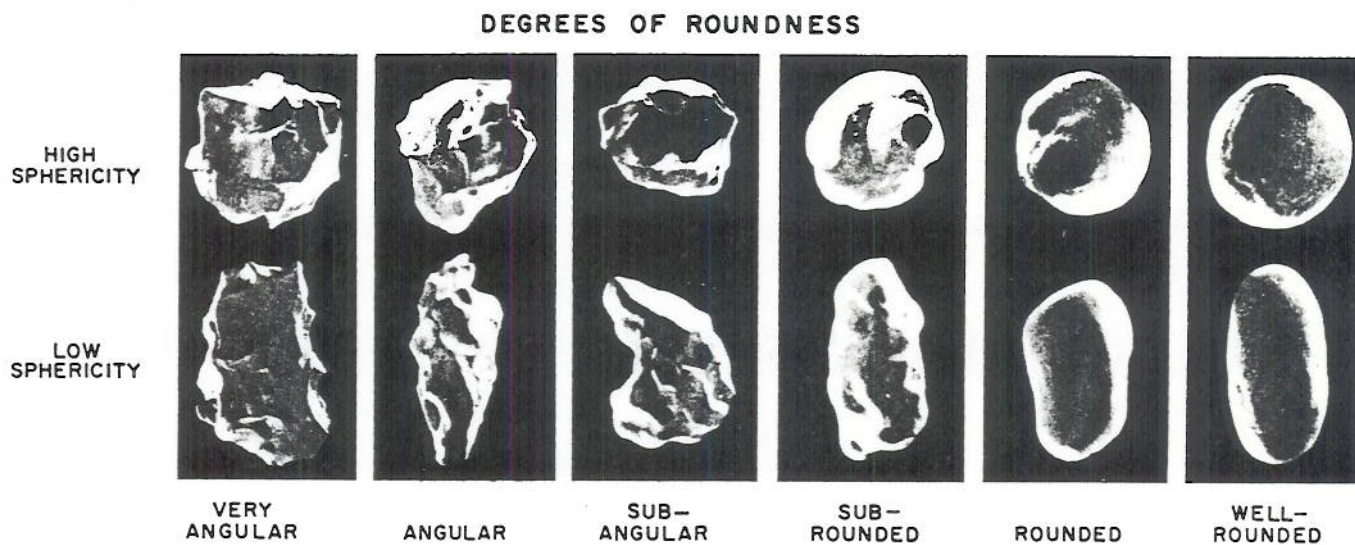


Table 5  
Description of Sediment Properties

Sediment Parameter	Properties
Color	The color of the sample should be described for the wet sediments. If possible the color should be referenced to a standard color chart such as a Munsell7 Color Chart.
Primary Grain Size	Primary grain size refers to the size of the predominant sedimentary size class within the material (as judged visually). The grain size divisions should conform to the standard Wentworth Scale divisions, as shown in Table 1.
Secondary Grain Size(s)	Secondary grain size(s) refer to material which, as a grain-size group, comprises less than the majority of the sediment. Aside from stating the size classification, the relative percentage of the material must be stated. The grain size divisions should conform to the standard Wentworth Scale divisions as shown in Table 1. To describe the approximate percentage of the secondary grain size(s) present, qualifiers shown in Table 2 should be used.
Moisture Content	The moisture content of the sample should be described as dry, slightly moist, moist, or wet. Gradation from one state to another should be recorded as, for example, moist to wet, or moisty wet.
Sorting	The relative degree of sorting of the sediment should be indicated as poor, moderate, good, or very good. The degree of sorting is a function of the number of grain size classes present in the sample; the greater the number of classes present the poorer the sorting. In addition, for samples composed only of sand, the relative degree of sorting is a function of the number of sand-size subclasses present.
Sphericity	Sphericity is a measure of how well the individual grains, on average, approximate a sphere. The average sphericity of the sand and larger size fractions should be described as low, moderate or high. A chart illustrating various degrees of sphericity is presented in Figure 1.
Angularity	Angularity, or roundness, refers to the sharpness of the edges and corners of a grain (or the majority of the grains). Five degrees of angularity are shown in Figure 1: Angular (sharp edges and corners, little evidence of wear); Subangular (edges and corners rounded, faces untouched by wear); Subrounded (edges and corners rounded to smooth curves, original faces show some areas of wear); Rounded (edges and corners rounded to broad curves, original faces worn away); and, Well Rounded (no original edges, faces, or curves, no flat surfaces remain on grains).
Sedimentary Structures	Sedimentary structures are such things as varved layers, distinct bedding, or stratification.
Density -or- Cohesiveness	The density of cohesion of a sample (for the purposes of this application) refer to the sample's resistance to penetration by a sampling device. Density is used in reference to sediments primarily silt-size and coarser while cohesiveness is used in reference to primarily clay-sized sediments. Density or cohesiveness can be assessed from the number of blows from "standard" split-spoon sampling (i.e., 140# hammer, 30" fall, 2" X 2" (O.D., 1 3/8" I.D.)) split-spoon samplers according to the scale in Table 3.



# FIGURE 1

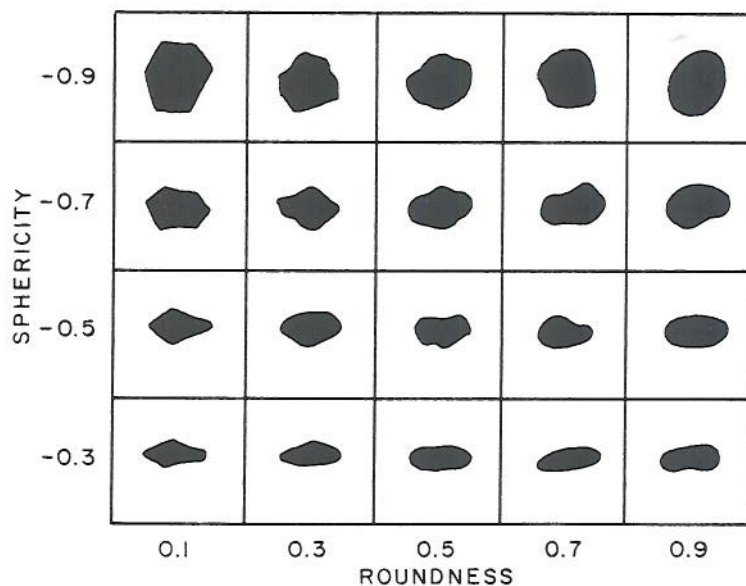


**SPHERICITY**

0.3      LOW  
0.5 & 0.7   MODERATE  
0.9      HIGH

**ROUNDNESS**

0.1   ANGULAR  
0.3   SUBANGULAR  
0.5   SUBROUNDED  
0.7   ROUNDED  
0.9   WELL ROUNDED





**Loureiro Engineering Associates, Inc.**  
**Standard Operating Procedure**  
**for**  
**Documentation and Integrity**  
**of**  
**Field Sampling Activities**

**SOP ID: 10038**  
**Date Initiated: 04/30/99**  
**Revision No. 002: 08/09/02**

**Approved By: /s/ David C. Brisson 08/09/02**  
**David C. Brisson    Date**  
**Project Geologist**

**/s/ Nick Skoularikis 08/09/02**  
**Nick D. Skoularikis    Date**  
**Directory of Quality**



## REVISION RECORD

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<u>Rev #</u>	<u>Date</u>	<u>Additions/Deletions/Modifications</u>
Initial Issue	4/30/99	
001	12/31/01	Formatting and minor revisions throughout
002	08/09/02	Added requirement for briefing or written work instructions prior to sampling; Added section on field equipment request and vehicle request; Added section on chain-of-custody form; Added section on cooler integrity and shipment.





**Loureiro Engineering Associates, Inc.**  
**Standard Operating Procedure**  
**for**  
**Documentation**  
**of**  
**Field Sampling Activities**

**1. Purpose and Scope**

- 1.1. This document describes procedures to be followed for proper documentation of all activities associated with sampling of environmental media, including tool and instrument preparation, field measurements and sampling, quality assurance/quality control (QA/QC) sample preparation, and chain-of-custody protocols. The use of specific documentation procedures depends on the goals of a particular project and should be dictated by the project-specific work plan. This Standard Operating Procedure (SOP) is to be used in conjunction with other Loureiro Engineering Associates, Inc. (LEA) SOPs and guidance for the performance of the associated field sampling activities. This guidance can be provided verbally through a briefing prior to the field activities or through a document such as written work instructions or a project-specific work plan.

**2. Definitions**

None

**3. Equipment**

None

**4. Procedure**

4.1. General

- 4.1.1. Field procedures for which documentation covered under this SOP is required include sampling of soil, groundwater, air, surface water, and sediment, and any other media from which samples are collected, as well as associated activities.

Documentation to be provided will include:





- Summary of daily field activities.
- Sample descriptions.
- Equipment used.
- Analyses required.
- Instrument calibration.
- Waste disposal.

4.1.2. All relevant information shall be included on the appropriate field report forms. However, the chain-of-custody record will include only that information necessary for proper sample identification and analysis.

#### 4.2. Paperwork Preparation and Completion

##### 4.2.1. Obtaining field paperwork

4.2.1.1. Prior to the initial start up of field activities, the Project Manager, or a designee, shall submit the proper site information to the Database Manager. This information shall include: project name, client name, commission and task number, site name, site location, directions to site, personnel requirements, type of activities planned for the site, approximate duration of field activities, sample information, and the project start date.

4.2.1.2. Once the correct information is entered into the database, paperwork may be obtained directly by the field personnel through the database or by requesting preparation of the paperwork from the database manager. This task should be completed 24 to 48 hours prior to the initiation of field activities.

##### 4.2.2. Field Equipment and Vehicle Request

4.2.2.1. A field equipment request form should be prepared and submitted to the field services manager. The field services manager will in turn ensure that all equipment are available and in proper condition for the specific project. A field vehicle should also be requested. The vehicle will be assigned to the field team based on availability.





#### 4.2.3. Field Activities Documentation

- 4.2.3.1. The purpose of field paperwork is to adequately document all field activities. It is important to document field conditions that may have an impact on the field activities, such as weather conditions, physical constraints, nearby construction or dewatering activities (to the extent known).
- 4.2.3.2. All field paperwork must be filled out accurately and be completed in the field before the end of the workday. The only exception is the preparation of performance evaluation (PE) samples, which should be completed in the office after the PE samples have been properly labeled (LEA SOP 10030). Information on equipment and expendable item usage shall be completed during the day, but checked for omissions at the end of the day.
- 4.2.3.3. At the conclusion of each sampling day, the field personnel shall conduct a quality control review before leaving the field, using the Quality Assurance Checklist section of the Daily Field Report.

#### 4.2.4. Chain-of-Custody Form

- 4.2.4.1. Although the chain-of-custody forms vary between laboratories and the analyses requested vary on a project-specific basis, the following information should be provided on the chain-of-custody forms:
  - Specify the LEA seven-digit sample number, date and time of collection, sample matrix, the type of analyses requested, and the preservatives used. For aqueous samples, the information provided should clearly indicate which preservative is used for which analyses. The analytical method requested should be specified.
  - The cooler containing the samples should be labeled with the appropriate identification information. If the sample cooler does not already have an ID assign and attach a new preprinted seven-digit LEA sample label to the cooler.
  - Specify whether an electronic disk deliverable (EDD) or data validation package is required.





- Specify the purchase order number, or for United Technologies Corporation (UTC) projects specify the United Analytical Request Procedure (UARP) number.
- Use the suffix “uf” after the seven-digit LEA sample number to denote unfiltered metal samples, as applicable.

#### 4.2.5. Cooler Integrity and Shipment

- 4.2.5.1. An iced cooler should be available with laboratory-supplied glassware and preservatives. The cooler should contain ice prior to and during sample collection.
- 4.2.5.2. A cooler containing samples should never be left unattended during the sampling day. If the field personnel need to leave the site at any time, they can lock the cooler in the trailer, staging area, or field vehicle. A temporary chain-of custody seal shall be used at that time to ensure the integrity of the samples.
- 4.2.5.3. For projects where an offsite laboratory is being used, the office should be contacted to arrange for cooler shipment. In such cases, the laboratory will provide preprinted air bills for shipment through their preferred carrier or will arrange for direct pickup from the office or from the site.
- 4.2.5.4. When the sampling is completed and the cooler is being prepared for shipment, fresh ice should be placed in the cooler along with a temperature blank. It is important that the cooler has been assigned a cooler ID so that the laboratory can associate the temperature measured with a specific cooler.
- 4.2.5.5. The sample jars should be placed in a plastic bag to avoid direct contact with the water, which may cause the labels to peel off.
- 4.2.5.6. A signed custody seal should be used when sealing the cooler. The date and time should also be recorded on the seal.





#### 4.2.6. Post Field Activities

- 4.2.6.1. Ensure that the paperwork is complete and that the pages are numbered sequentially.
- 4.2.6.2. Verify that all waste container information has been recorded.
- 4.2.6.3. Appropriate entries should be made for all visitors to the site related to the field activities performed.
- 4.2.6.4. Document on the field forms, whether any photos of the site were taken.
- 4.2.6.5. Upon completion of the daily field activities and after review of the completed paperwork, a copy of the field paperwork shall be submitted to the database manager. The originals shall be retained for filing in the project notebook.
- 4.2.6.6. All required information from the field is entered into the database by the database manager or a designee. A data review checklist is printed out upon completion. Included with the data review checklist may be a comment sheet indicating inconsistencies in the data entered that were readily apparent based on electronic comparison of the data or noted by personnel entering the data.

#### 4.3. Data Verification

- 4.3.1. The data review checklist and the comment sheet shall be obtained from the database manager by the project manager or a designee for review. The data review checklist shall be maintained in the project notebook under the QA/QC section and will be periodically reviewed by the Director of Quality.
- 4.3.2. Once the project manager or designee completes the review process, any mistakes shall be brought to the attention of the database manager in a timely manner, generally in less than two business days from the day on which the database manager prepared the review sheets.
- 4.3.3. After the corrected information has been entered into the database, a revised data review checklist (and any necessary additional comment sheets) will be provided to the project manager or designee.





- 4.3.4. The above process will be repeated as necessary until it has been determined that the information that has been entered into the database is accurate and complete.

## **5. References**

None

END OF DOCUMENT





**Loureiro Engineering Associates, Inc.**  
**Standard Operating Procedure**  
**for**  
**Low-Flow (Low-Stress)**  
**Liquid Sample Collection and Field Analysis**

**SOP ID: 10039**

**Date Initiated: 06/11/01**

**Revision No. 005: 04/01/12**

**Approved By:**

  
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**04/01/12**

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**04/01/12**

**Date**

  
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**Director of Quality**

**04/01/12**

**Date**



## REVISION RECORD

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<u>Rev #</u>	<u>Date</u>	<u>Additions/Deletions/Modifications</u>
Initial Issue	06/11/01	
001	04/01/02	Updated to reflect new SOP format.
002	12/02/02	Updated to reflect stabilization procedures.
003	04/01/05	Incorporated modified low-flow sampling procedure to include the use of a peristaltic pump.
004	08/09/11	Allowed use of plastic tub as secondary containment. Provided equation for standing water calculation. Required recording of depth of pump intake. Required direct calculation of flow rate. Minor wording changes to improve precision. Deleted reference since it has been rescinded: [Connecticut Department of Environmental Protection, Bureau of Water Management, Permitting Enforcement and Remediation Division. <i>Site Characterization Guidance Document</i> , Draft, June 12, 2000.]
005	04/01/12	Added unit conversion information from gallons to liters.





**Loureiro Engineering Associates, Inc.**  
**Standard Operating Procedure**  
**For**  
**Low Flow (Low Stress)**  
**Liquid Sample Collection and Field Analysis**

**1. Purpose and Scope**

This standard operating procedure (SOP) describes the procedures to be followed for measurement of static water-level elevations, detection of immiscible layers, well evacuation, sample withdrawal, and field analyses utilizing low-flow sampling techniques.

**2. Definitions**

2.1. Immiscible layers: The term is used to denote separate-phase liquids that may be present in the aquifer as a result of a release. These liquids may have a density lighter than water (light non-aqueous phase liquids (LNAPL), which float) or heavier than water (dense non-aqueous phase liquids (DNAPL), which sink).

**3. Equipment**

3.1. Equipment required for the collection and field analysis of liquid samples shall include:

- Water-level indicator (accurate to 0.01 foot).
- Distilled water.
- Hand towels.
- Portable volatile organic compound (VOC) analyzer (Photovac MicroTIP<sup>®</sup>, Foxboro OVA<sup>®</sup> or equivalent).
- Interface probe/clear view bailer (to check for non-aqueous phase liquids, as appropriate).
- Flow-through cell capable of monitoring pH, temperature, specific-conductance, oxidation reduction potential (Eh), dissolved oxygen (DO), and turbidity.
- Polyethylene plastic sheeting and secondary containment units (plastic tubs).





- Adjustable rate peristaltic pump, bladder pump (constructed of stainless steel or Teflon<sup>®</sup>), adjustable rate submersible pump, or adjustable rate centrifugal pump. The bladder pump is preferable to the other two types of pumps.
- Appropriate tubing for the pump used, for instance polyethylene tubing (1/4 to 3/8 inch outer diameter [O.D.]) for the peristaltic pump
- Clean disposable gloves.
- Alconox<sup>®</sup>, or other non-phosphate, laboratory-grade detergent.
- Three 5-gallon buckets.
- Decontamination brushes.
- Distilled, de-ionized (DI) water.
- Decontamination fluids (less than 10 percent methanol in water, 100 percent n-hexane (as necessary), and 10 percent nitric acid).

#### **4. Procedure**

##### **4.1. Health & Safety Requirements**

All health and safety requirements described in the site-specific Health & Safety Plan and/or Job Hazard analysis shall be observed

##### **4.2. Equipment Decontamination**

All materials and equipment that enter a well must be clean and free of any potential contaminants. Do not use any contaminated equipment or materials which are not designed to be used for groundwater monitoring, even if this means that the sampling will not be performed as planned.

In general, the choice of decontamination procedures should be based upon knowledge of the site-specific contaminants and outlined in the site-specific work plan.

For sites at which the contaminants are unknown, but contamination is suspected, the decontamination procedures outlined below should be followed.

- 4.2.1. Prior to commencing any field activities, the following solutions (as appropriate for the appropriate contaminants) should be prepared and placed into 500-ml laboratory squirt bottles: less than 10 percent





methanol in water; 10 percent nitric acid in water; 100 percent n-hexane, as necessary; distilled, de-ionized water.

- 4.2.2. In the field, prepare approximately 2.5 gallons of a solution of Alconox<sup>®</sup> (or other suitable non-phosphate laboratory grade detergent) in tap water in a 5-gallon bucket.
- 4.2.3. Prepare a piece of 5-mil polyethylene sheeting to underlie the decontamination area. The sheeting should be of sufficient size to contain any accidental discharge of decontamination solutions. The plastic should be bermed to contain spills.
- 4.2.4. The order for decontaminating equipment is as follows:
  - 1) Detergent scrub.
  - 2) DI water rinse.
  - 3) Hexane rinse (to be used only if separate-phase petroleum product, other than gasoline, is present).
  - 4) DI water rinse.
  - 5) 10 percent nitric acid rinse (to be used only when metals are suspected as potential contaminants).
  - 6) DI water rinse.
  - 7) Methanol rinse (less than 10 percent solution).
  - 8) Air dry.
- 4.2.5. Materials such as the bailer cord should not be decontaminated and should just be disposed of after each test. Note: Bailers should be used **only** to check for LNAPL before sample collection using low-flow/low stress procedures. A bailer may be used to check for DNAPL **only after** all sample collection equipment has been removed from the well.
- 4.2.6. At the end of the project day, dispose of all spent decontamination fluids and materials such as the polyethylene sheeting and personal protective equipment in accordance with all applicable municipal, state, and federal regulations.

#### 4.3. Sample Collection

- 4.3.1. Immediately upon opening the well, the air in the well head will be sampled for VOCs using a portable VOC analyzer, such as a Photovac MicroTIP<sup>®</sup> or equivalent. The instrument shall be zeroed with ambient air prior to the measurement, and the highest reading observed shall be





recorded for each well. Measurements should be taken until stabilization of the readings has occurred.

#### 4.4. Detection of Immiscible Layers

- 4.4.1. Should evidence warrant, a sampling event shall include provisions for the detection of immiscible phases prior to well evacuation or sample collection. LNAPLs are relatively insoluble liquid organic compounds with densities less than that of water (1 g/ml), while DNAPLs are organic compounds with densities greater than that of water. Lighter and/or denser immiscible phases may be encountered in a groundwater monitoring well.
- 4.4.2. An interface probe will be used to determine the existence of any immiscible layers, light or dense. Alternatively, a clear fluorocarbon resin or PVC bailer may be used to determine the existence of the separate phases or oil sheen in the well when no accurate determination of the immiscible layer thickness is required. As noted above, efforts to detect LNAPL only can be performed prior to sample collection. Efforts to detect DNAPL can be performed only AFTER sample collection has occurred.
- 4.4.3. Should elevations of the immiscible layers be required, levels of the fluids shall be measured to an accuracy of 0.01 feet using an electronic interface probe capable of detecting the interfaces between air, product, and water. The interface levels shall be recorded on the field form. Adjustments of the observed head to the theoretical hydraulic head shall be calculated based on the density conversion factor associated with the particular non-aqueous phase liquid.
- 4.4.4. If LNAPL is detected in a well, collection of a groundwater sample from that well is not recommended unless otherwise specified in the site-specific work plan or work instruction. However, if a groundwater sample must be collected from that well, low-flow sampling is the recommended technique, although care must be taken to minimize mobilization of the LNAPL into the zone from which the sample will be collected. This is best accomplished by ensuring that the tubing or pump intake is placed well below the interface of the separate phase liquid with the water in the well.





#### 4.5. Measurement of Static Water Level

- 4.5.1. The static water-level elevations in each well shall be measured prior to each sampling event. This is performed initially to characterize the site, and in subsequent sampling rounds to determine whether horizontal or vertical flow gradients have changed. A change in hydrologic conditions may necessitate modification of the groundwater monitoring program.
- 4.5.2. Remove the protective cover and locking cap from the well.
- 4.5.3. Make sure the well is properly labeled if there can be any question about the well I.D. based on location (i.e., more than one well in close proximity to each other). If the well cannot be clearly identified, either based on location or by a specific label of some kind on the well itself, clearly indicate that fact on the field sampling record, water-level measurement form, and/or field paperwork. A measurement of depth-to-bottom of the well can be made in an attempt to clarify the well I.D., but this should only be performed if the well will not be sampled for at least 12 hours in order to minimize any potential effects from disturbance of sediment that may have accumulated at the bottom of the well. Otherwise, a depth-to-bottom measurement can only be made after the well is sampled, as indicated in Section 4.5.5.
- 4.5.4. Each well shall have a surveyed reference point located at the top of the well casing with the locking cap removed. The reference point shall be easily recognizable, since the personnel conducting the sampling may differ from one sampling event to the next.
- 4.5.5. The following parameters shall be measured with an accuracy of 0.01 foot:
  - Depth to standing water.
  - Depth to bottom of well (after all liquid samples have been collected from the well).
- 4.5.6. A water-level indicator with a fiberglass tape will be used for measurement. As a result of possible pressure differences between the well atmosphere and the ambient atmosphere, the water level will be allowed fifteen minutes to equilibrate upon removal of the well cap. If excess pressure is encountered, the water level will be allowed greater than fifteen minutes to equilibrate upon removal of the well cap. The results shall be recorded on the appropriate field form(s).





- 4.5.7. Total depth measurements will be compared to original depths to determine the degree of siltation that may have occurred. This information shall be noted on the field forms. Should significant siltation occur in any well, the well shall be redeveloped by an approved method.
- 4.5.8. The portion of the tape immersed in the well shall be decontaminated during retrieval using a distilled water rinse followed by drying with a clean wipe, prior to use in another well. This decontamination procedure shall be amended, as needed, to accommodate the specific type of contamination anticipated.
- 4.5.9. The static water level should be monitored and recorded throughout the purging and sampling of each well.

#### 4.6. Field Analysis

- 4.6.1. Parameters that are physically or chemically unstable shall be measured using probes that are inside a flow-through cell. Such parameters as pH, temperature, specific conductance, DO, Eh, and turbidity will be measured in the field at the temperature of the well sample.
- 4.6.2. Parameters such as pH, temperature, specific conductance, DO, and Eh shall be measured using a flow-through-cell (YSI model 6820 or equivalent). The meter shall be calibrated prior to use and at the end of the day using supplied solutions in accordance with the instructions provided by the manufacturer. Calibration information will be recorded in the field before and after each calibration.
- 4.5.3. Turbidity can be measured with a separate turbidimeter, although some flow-through cells include a turbidimeter. It is useful to have a separate turbidimeter on hand to check the validity of the turbidity values obtained using the flow-through cell if there is difficulty reaching low turbidity values or if the turbidity readings recorded do not seem to be consistent with visual observation of the water samples. All samples, including turbidity samples and samples to be submitted for analysis, must be collected before the groundwater passes through the flow-through cell to prevent cross-contamination by potentially stagnant fluid within the flow-through cell. This can be accomplished by using a bypass assembly or disconnecting the tubing from the flow-cell inlet prior to sampling.





#### 4.7. Well Evacuation

- 4.7.1. Calculate the volume of the standing water in the well based on the following information and record on the appropriate field form:

Well Diameter (inches)	Conversion Factor (gallons/foot)	Conversion Factor (liter/foot)
2	0.163	0.617
4	0.654	2.48
6	1.47	5.56

Alternatively, the volume of standing water in the well can be calculated using the equation noted below, with the measurement of the well radius (r) in inches:

$$3.14 \times (r/12)^2 \times 7.48 = \text{gallons per foot of standing water}$$

$$3.14 \times (r/12)^2 \times 28.3 = \text{liters per foot of standing water}$$

The total volume of water in the well using this equation or the above information is determined by multiplying the value calculated or indicated by the depth of standing water in the well.

- 4.7.2. Generally, a peristaltic pump, bladder, submersible, or air-lift pump equipped with appropriate tubing of inert materials (such as polyethylene), shall be used to evacuate the monitoring wells.
- 4.7.3. A new piece of polyethylene plastic shall be placed on the ground adjacent to the well. Sampling and purging equipment such as the pump, tubing, containers, etc., shall be placed on the polyethylene sheet and/or a plastic secondary containment unit, never on the ground.
- 4.7.4. The pumps and tubing shall be prepared for insertion into the well while wearing disposable gloves. Make sure that any tubing or pump apparatus is of sufficient length to reach the appropriate depth for pumping.





- 4.7.5. Lower the pump and/or tubing gently into the water column to the midpoint of the saturated portion of the screened interval, unless otherwise specified. A site-specific sampling plan may specify a specific sampling depth, or provide specific criteria for the selection of intake depth for each well, but as a default, the tubing/intake should be placed at the midpoint of the saturated portion of the screen. **Record the actual depth at which the tubing/intake is placed.** If the saturated portion of the screen is less than 3 feet, the tubing or pump intake should be placed no closer than 1 foot from the bottom of the well. If the column of water in the well is less than 6 inches, serious consideration must be given to sampling the well, since it is not clear that the water in the well will be representative of water in the aquifer. If samples are collected from a well under these conditions, the limited volume of water should be specifically noted in the field paperwork.

Start the pump at the lowest speed setting and slowly increase the speed until discharge occurs. The initial pumping rate shall be approximately 0.1 liters per minute, however, the pumping rate shall not exceed 0.25 liters per minute. Measure the water level to ensure that drawdown in excess of 0.3 feet does not occur in the well. Adjust the pumping rate as necessary until little or no drawdown occurs. At least one actual measurement of the pumping rate should be conducted once drawdown stabilizes. That measurement should be made using a suitable measurement device for the volume anticipated over a measurement period of at least 20 to 30 seconds. Record the actual pumping rate on the field sampling record.

If the drawdown exceeds 0.3 feet, reduce pumping rate if possible. If drawdown still does not stabilize at a depth above the pump intake, shut the pump down and allow the well to recharge. It should be noted that a stable drawdown of approximately 0.3 feet is desirable but not mandatory. Stabilization of the drawdown at a depth greater than 0.3 feet is acceptable, as long as the depth at which stabilization occurs is above the pump intake. However, it is important that the stabilization depth is clearly recorded and maintained.

- 4.7.6. Monitor and record the water level and pumping rate at a minimum of every three to five minutes during purging. Calculate the volume of the discharge tubing, bladder pump (if used), and the flow-through cell. Monitor and record indicator field parameters (turbidity, pH, Eh, DO, temperature and specific conductance) in the well from the first water extracted during the purging process and at least every three to





five minutes thereafter. Stabilization is considered to be achieved when three consecutive readings are within the following limits and no increasing or decreasing trend in the data can be observed:

- Turbidity (10% for values less than 5 and greater than 1 NTU). It should be noted that achievements of turbidity levels less than 5 NTUs are not mandatory but efforts should be made to collect a groundwater samples with the lowest turbidity achievable.
- DO (10%, measured as milligrams per liter).
- Specific Conductance and Temperature (3%).
- pH (+/- 0.1 unit).
- ORP/Eh (+/- 10 millivolts).

- 4.7.7. If after 2 hours of purging or the purging of three well volumes, (whichever comes first) the field parameters have not stabilized, purging may be discontinued to allow sample collection. Similarly, if it is not possible to obtain stabilization as described above as a result of slow recovery of the well, the well shall be evacuated and allowed to recover, at which point the samples should be collected immediately. The appropriate sampling forms shall include a notation that sample collection occurred without stabilization. Samples obtained from slow-yielding wells shall be collected as soon as a sufficient volume is available for a sample for each parameter.
- 4.7.8. Do **not** re-use purging equipment. Pumps shall be decontaminated between monitoring wells, in accordance with procedures noted in Section 4.1.
- 4.7.9. Record sampler's name, sampling time, volume of water purged, parameters measured, weather conditions, sample number, analyses required and all other pertinent information in the field notebook and/or appropriate field forms, and complete the chain of custody form.
- 4.7.10. Any water purged from the monitoring wells shall be stored in appropriate containers until the laboratory analyses are available. Then it should be disposed of in accordance with all applicable local, state and federal requirements.





- 4.7.11. Storage shall be in containers approved for storage of hazardous materials and in an appropriate designated location at the facility.

4.8. Sample Withdrawal

- 4.8.1. In order to ensure that the groundwater sample is representative of the formation, it is important to minimize physical alteration (i.e. agitation during purging and/or sample collection) or chemical contamination of the sample during the withdrawal process.

- 4.8.2. Use an appropriate pump to purge each well; the same pump used for purging shall be used for sample withdrawal.

- 4.8.3. The samples shall be collected at a location before entering the flow-through cell. To minimize the effects of water column agitation on sample quality, samples shall be collected from the pump tubing in the following order into pre-labeled sample containers:

- VOCs.
- Total petroleum hydrocarbons.
- Extractable organics (semivolatiles).
- PCBs.
- Metals.
- Phenols.
- Cyanide.
- Chloride and sulfate.
- Nitrate and ammonia.
- Turbidity.
- Radionuclides.
- Purgeable organic carbon (POCs).
- Purgeable organic halogens (POX).
- Total organic halogens (TOX).
- Total organic carbon (TOC).

- 4.8.4. Samples shall be obtained from the monitoring wells as soon as possible after purging. This may require waiting an extended period for low-yielding wells.





- 4.8.5. Samples collected for VOC analysis shall be free of any air bubbles and inverted upon filling. Bacterial samples shall be collected using dedicated gloves; taking care not to allow anything to touch the inside of the sampling container.
- 4.8.6. Samples collected for metals analysis, which are to be filtered in the field, shall be passed through an appropriately sized filter prior to placement in the sample bottle. Pre-rinse the filter with approximately 25 to 50 milliliters of groundwater prior to collecting the samples for filtered metals analyses. Filter sizes will generally be either 10 microns for metals that could be present as colloids or adsorbed onto colloids that could be mobile in the aquifer or 0.45 microns for dissolved metals. The appropriate filter size for the individual project must be provided in site-specific work instructions.

#### 4.9. “What If” Scenarios

- 4.9.1. Certain field conditions may be encountered that influence the choice of equipment to be used or altogether limit the feasibility of low-flow sampling techniques. The following is a brief description of select scenarios to provide field personnel with a guideline if similar circumstances are encountered

##### 4.9.2. Turbidity

- 4.9.2.1. If turbidity measurements do not stabilize as described above after 2 hours of purging or the evacuation of three well volumes, whichever comes first, sample collection can be initiated. Record observations of the color, clarity, and other observable characteristics of the groundwater (such as the presence or absence of particles) in the field paperwork
- 4.9.2.2. If samples are being collected for analysis for total (unfiltered) metals and the turbidity has not stabilized below 10 NTU, a sample for additional analysis for metals should also be collected after being filtered in the field through an in-line 10-micron filter, if specified in the work instructions.

##### 4.9.3. Peristaltic Pump





- 4.9.3.1. Difficulty may be encountered while advancing the flexible polyethylene peristaltic pump tubing to the desired depth within a deep well or older well. Excessive friction may result from the tubing contacting the sidewall of the well casing or accumulations of material on the well casing (i.e. mineral and bacterial deposits). In these scenarios, the tubing may coil within the well during advancement and prevent the desired depth from being attained. Efforts to weight the tubing should be attempted before using alternate pumping techniques.
- 4.9.3.2. If such well conditions are expected, a bladder pump or other submersible pump should be used instead of a peristaltic pump. A bladder pump provides sufficient mass on the tubing to allow for advancement in deep or older wells.
- 4.9.3.3. A peristaltic pump cannot be used to sample wells in which the depth to water is greater than approximately 25 to 30 feet.

#### 4.9.4. Sampling Depth

- 4.9.4.1. If conditions exist that prevent the appropriate pump or tubing from being advanced to the midpoint of the saturated portion of the screened interval, low-flow sampling techniques shall not be used. Instead, sampling shall be conducted using conventional purging and sampling techniques, as described in LEA SOP 10004 entitled *Liquid Sample Collection and Field Analysis*. Justification for not using low-flow sampling techniques must be provided in the field paperwork.

#### 4.10. Field Documentation

- 4.10.1. Field documentation shall include at a minimum: a chain-of-custody form, Field Data Record Groundwater Form, Sample Collection Form, Daily Field Report. Sample labels and sample seals shall be used for proper sample identification.
  - 4.10.1.1. The labels shall be sufficiently durable to withstand immersion for 48 hours without detaching and to withstand





normal handling. The information provided shall be legible at all times.

4.10.1.2. The following information shall be provided on the sample label using an indelible pen:

- Sample identification number.
- Date and time of collection.
- Place of collection.
- Parameter(s) requested (if space permits).

4.10.1.3. Appropriate field forms will be used to log all pertinent information with an indelible pen. The following information shall be provided:

- Project and site identification.
- LEA commission number.
- Identification of well.
- Static water level measurement technique.
- Presence of immiscible layers and detection method.
- Time well purged.
- Collection method for immiscible layers and sample identification numbers.
- Well evacuation procedure/equipment.
- Sample withdrawal procedure/equipment.
- Date and time of collection.
- Types of sample containers used and sample identification numbers.
- Preservative(s) used.
- Parameters requested for analysis.
- Field analysis method(s).
- Whether or not field filtration was performed and the filter size, if appropriate.
- Field observations on day of sampling event.





- Record of site activities.
- Field personnel.
- Climatic conditions, including air temperature.
- Status of total production.
- Record of non-productive time.

4.10.1.4. The Field Sampling Record shall include at a minimum the following information:

- Identification of well.
- Date and time of collection.
- Name of collector.
- Sample number.

4.10.1.5. The chain-of-custody record shall include the following information:

- Company's name and location.
- Date and time of collection.
- Sample number.
- Container type, number, size.
- Preservative used.
- Signature of collector.
- Signatures of persons involved in the chain of possession.
- Analyses to be performed.
- Type and number of samples.

4.10.1.6. The Field Data Record Groundwater Form shall be updated during the sampling of each well and include the following information:

- Identification of well.
- Well depth, diameter, depth to water.
- Static water level depth and measurement technique.





- Purge volume and pumping rate.
- Time well is purged.
- Measurements of initial field parameters and all subsequent readings.
- Any specific circumstances, as described above, such as field filtering, lack of stabilization of parameters, water characteristics, etc.
- LEA commission number.
- Date.
- Depth of pump intake or tubing intake

4.10.1.7. The Daily Field Record shall include the following information:

- Client's name, location, LEA commission number, date.
- Instrument make, model, and type.
- Calibration readings.
- Calibration/filtration lot numbers.
- Field personnel and signature.

4.10.1.8. The Daily Field Record shall assure the completeness of the sampling round and include the following information:

- Reviewer's name, date, and LEA commission number.
- Review of all necessary site activities and field forms.
- Statement of corrective actions for deficiencies.

## 5. References

- 5.1. United States Environmental Protection Agency (EPA), Region I. *Low Stress (Low Flow) Purging and Sampling Procedure for the Collection of Groundwater Samples from Monitoring Wells*, July 30, 1996, Revision 2.
- 5.2. EPA. *Groundwater Sampling Guidelines for Superfund and RCRA Project Managers – Groundwater Forum Issue Paper*, Office of Solid Waste and Emergency Response, (EPA 542-S-02-001), May 2002.





- 5.3. Robert W. Puls and Michael Barcelona, EPA. *Low-Flow (Minimal Drawdown) Ground-Water Sampling Procedures*, in Groundwater Issue, (EPA/540/S-95/504), April 1996.

END OF DOCUMENT





**Loureiro Engineering Associates, Inc.**  
**Standard Operating Procedure**  
**for**  
**Collecting and Preserving Soil and Sediment Samples for**  
**Laboratory Determination of Volatile Organic Compounds**

**DRAFT**

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<b>Approved By: <u>/s/ Christina M. Clemmey</u></b>	<b><u>03/01/06</u></b>
<b>Christina M. Clemmey</b>	<b>Date</b>
<b>Laboratory and Data Validation Manager</b>	
<b><u>/s/ Nick D. Skoularikis</u></b>	<b><u>03/01/06</u></b>
<b>Nick D. Skoularikis</b>	<b>Date</b>
<b>Director of Quality</b>	



## REVISION RECORD

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<u>Rev #</u>	<u>Date</u>	<u>Additions/Deletions/Modifications</u>
Initial Issue	03/01/06	





**Loureiro Engineering Associates, Inc.**  
**Standard Operating Procedure**  
**for**  
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**Laboratory Determination of Volatile Organic Compounds**

**1. Purpose and Scope**

**1.1. Background**

Volatile organic compounds (VOCs) are lost from soil and sediment samples (hereinafter referred to as soil samples) due to volatilization and biodegradation during collection, storage and analysis. This leads to low-biased results. Some commonly used techniques are prone to relatively large losses and results that are potentially biased quite low. Such techniques involve collection of disturbed soil samples and storage in soil jars without air-tight seals. This standard operating procedure (SOP) describes soil sample collection and preservation techniques designed to minimize such losses. The procedure below has been adapted from the referenced guidance document issued by the Connecticut Department of Environmental Protection (DEP, February 2006).

**2. Definitions**

- 2.1. En Core<sup>®</sup> Sampler: is a disposable volumetric sampling device designed to assist field personnel in taking soil samples with minimal handling and maximum accuracy. (Example Supplier: En Novative Technologies, Inc. Telephone number: 888-411-0757)
- 2.2. Low Concentration Samples: the specific concentration may vary between laboratories, but generally “low” refers to a concentration below approximately 200 µg/kg.
- 2.3. High Concentration Soil Samples: the specific concentration may vary between laboratories, but generally “high” refers to any concentration greater than 200 µg/kg.
- 2.4. Undisturbed samples are those for which the sampling device minimizes break-up of the structure of the soil to the extent practicable. Undisturbed samples can be collected using such techniques as:





- Coring, such as the methods utilizing split-spoon sampling devices, MacroCores™, and large-bore direct-push samplers;
- Bulk sampling, for example, undisturbed soil volumes collected using a backhoe bucket from sidewalls of trenches and excavations where direct access to the sampling location (sidewall or bottom) is not safe; and
- Direct collection of sub-samples from the subsurface.

### **3. Equipment**

- Electronic field balance accurate to 0.1 grams.
- Water.
- Methanol.
- Sodium bisulfate solution.
- Magnetic stir bar.
- VOA vials (40 ml).
- 20 gram sample container (for percent solids). A different size container may also be suitable.
- En Core®-type Sampler (5, 10 and 25 gr samplers).
- Decontamination solutions, including distilled water, 10 percent methanol, 10 percent nitric acid.
- Clean disposable gloves.
- Re-sealable bags.
- Utility knife.
- Stainless steel spatula or dedicated wood spatula.
- Paper towels.
- Indelible ink marker.
- Field paperwork.
- Chain of custody seals and sample labels.

### **4. Preliminary Sampling Procedures**

#### **4.1. Sample Bottles**

4.1.1. It is recommended that a laboratory request form be completed and submitted to the laboratory with the following information:

- Project name.
- LEA commission number.
- Date of submittal and date needed.
- Quantity of sample locations and sample points at each location.
- Type(s) of samples.





- Analytes, detection limits and QA/QC needed.
- Cooler(s) required.
- Number of chain of custody forms requested.

- 4.1.2. Check bottles against laboratory request form for completeness. The bottles and/or En Core<sup>®</sup>-type Sampler should also be checked for damage and cleanliness. Confirm with laboratory personnel the adequacy of the preservatives used.
- 4.1.3. The total number of sample sets shall be increased by 10 percent to allow for possible breakage during transport to sites or other contingencies. At a minimum one additional sample bottle set shall be obtained per event.
- 4.1.4. Obtain preprinted labels and paperwork through the LEA information management system.
- 4.1.5. Label/date bottles and/or En Core<sup>®</sup>-type Sampler in the field prior to sample collection. Check for accuracy.
- 4.1.6. A cooler should be obtained from the laboratory and adequate ice or cold packs should be provided to ensure that the collected samples remain at 4 degrees Celsius during transport. Packing material should also be obtained to ensure against breakage during transport.

#### 4.2. Site Preparation

- 4.2.1. A level table shall be placed within the exclusion zone and covered with polyethylene sheeting.
- 4.2.2. Decontaminated spatulas shall be placed on the table. Sample bottles and En Core<sup>®</sup>-type Sampler shall be placed in a convenient location and in order of sample collection.
- 4.2.3. PID and plastic bags shall be placed on the table for VOC screening, if necessary.

#### 4.3. Cleaning and Decontamination

- 4.3.1. Prior to collecting a soil sample, the LEA representative will ensure that all necessary sampling equipment is clean and decontaminated according to the procedure outlined in Section 4.1.3.3 or according to





the site specific work plan if different than below. Disposable equipment does not have to be decontaminated.

4.3.2. Upon completion of all sampling requirements and prior to leaving the site, all equipment used for sampling shall be cleaned and decontaminated according to the procedure outlined in Section 4.2.3 or according to the site specific work plan if different than below. All generated decontamination fluids shall be containerized and disposed of in accordance with the site-specific work plan and all municipal, state, and federal requirements.

4.3.3. The decontamination procedure of durable sampling equipment will be accomplished via swabbing the surfaces with a solvent. The order of decontamination is as follows:

- Detergent swab.
- DI water rinse.
- Hexane rinse (to be used if separate-phase petroleum product, other than gasoline is present).
- DI water rinse.
- 10 percent nitric acid rinse (to be used only when metals are suspected as potential contaminants).
- DI water rinse.
- Methanol rinse (less than 10 percent solution).
- Air dry.

#### 4.4. Personal Protective Equipment

4.4.1. All personal protective equipment (PPE) should be donned and maintained in accordance with the site-specific work plan or health and safety plan during all sampling procedures. In the event that no PPE has been specified for a particular sampling event, disposable latex gloves should be donned, as a minimum, during all sampling procedures. All LEA cardinal rules shall be followed. At a minimum, steel-toe shoes, hard hats, and safety glasses shall be worn at all times, as well as the company-provided vest. Noise protection is required when drilling equipment operate in the vicinity.





#### 4.5. Overview of Sampling Approach

The soil sample collection procedure for determination of VOCs is a two-step process:

**Step 1 – Collect an undisturbed soil sample**, as defined below, from the subsurface, or expose the targeted area from where a sub-sample for laboratory analysis will be collected,

**Step 2 – Collect a representative sub-sample** from the undisturbed sample or directly from the exposed subsurface.

#### 4.6. Collection of Undisturbed Samples

When collecting samples for laboratory determination of VOCs, the device used to collect the undisturbed soil sample shall be removed as soon as possible from the subsurface; and most importantly, **the sub-samples that are intended for VOC determination must be collected as soon as possible (ideally within five minutes of collection of the undisturbed sample) to reduce loss of VOCs due to volatilization.** Attempts must be made to further minimize loss of VOCs by managing the sample collection environment (i.e. limiting sun, wind, heat, etc.).

Planning and careful preparation are critical for a successful sampling event. Checklists should be used to ensure that all necessary equipment and supplies are present and in proper working order and that the following conditions are achieved:

- Undisturbed soil to be collected for sub-sampling should be collected in a manner that controls the acquisition of the samples such that they do not “stack up” awaiting logging and sub-sampling;
- Cores should not be stored in small- or large-diameter sampling devices or capped liners (brass, acetate, lexan, polycarbonate etc.);
- Cores should not be exposed to extreme weather conditions, such as direct sunlight, rain and wind, and sub-sample collection should occur in an area that minimizes exposure to the elements (e.g. under cover, shady areas); and
- Undisturbed soil samples cannot be transferred from the core sampler to a secondary container (empty sample bottle, re-sealable bag, aluminum foil, or sampling bowls) for future sample collection.

Leaving samples in core tubes, split-spoons, covered liners, or intermediate containers will lead to VOC losses and will thus yield poor quality data.





To the extent practicable, undisturbed samples should always be collected. However, in some cases, collection of a disturbed sample using a hand auger may be necessary to characterize source areas or other critical locations. If disturbed soil samples must be collected, the rationale for collecting such disturbed samples must be provided. However, under no circumstances should a sub-sample be collected from a disturbed sample that was previously used for field-screening purposes.

#### 4.7. Collection of the Soil Sub-Sample for Determination of VOCs

Sub-samples are those samples that are submitted to the laboratory for analysis for VOCs. Sub-sampling of the undisturbed soil sample must be performed using a dedicated or decontaminated small-diameter sampler. Sub-samples must be collected as soon as possible from the undisturbed sample (ideally within five minutes) after the undisturbed soil sample is collected.

### 5. Overview of Sub-Sampling Devices

Sub-sampling of the large-diameter or bulk sampling device for VOCs must be performed with the use of a dedicated or decontaminated small-diameter core sampler. The small-diameter core sampler should fit inside the mouth of the sample container to avoid loss of sample, prevent damage to the sealing surfaces or container threads and ease the soil transfer process.

#### 5.1. Procedure for Obtaining Test Samples to Determine Sub-Sample Volume

The purge and trap laboratory procedure used to determine volatile organic compounds requires approximately equal amounts of soil and liquid to be used in the analysis. If the ratio of soil to liquid is too high, the soil will not be adequately dispersed in the liquid, leading to poor results. If the amount of soil is too low, the detection limits will be increased, potentially rendering the results to be of limited use. It is better to use a slightly lower weight of soil than a higher weight, as the regulatory limits are, in general, significantly higher than the typical laboratory reporting limit for volatile analytes.

The small-diameter core sampler must be able to deliver a minimum of 5 grams of sample ( $\approx 3 \text{ cm}^3$  of sample, assuming a density of  $1.7 \text{ g/cm}^3$ ) into a 40-ml VOA vial. While most small-diameter core samplers can only be used for sampling and placement into the appropriate sample containers, only the En Core<sup>®</sup>-type samplers can be used for sampling, storage, and transportation of the sample to the laboratory.





It is important that the small-diameter core sampler provide the required mass of sample material. As such, a test sample (of similar matrix to that being sampled) may be collected and weighed to determine the amount of soil needed to obtain the required mass of sample material for each type of small-diameter core sampler and analytical method.

5.1.1. The procedure for obtaining a test sample is as follows:

- 5.1.1.1. Using a small electronic portable scale with an accuracy of 0.1 grams, weigh the empty small-diameter core sampler (e.g., disposable syringe) to the nearest 0.1 grams. The scale must be calibrated before use and intermittently checked during the day to ensure accurate weight measurement. Calibration information must be recorded in the field logbook. A translucent cover can be placed over the scale during the weighing process to negate variations caused by wind.
- 5.1.1.2. Push the small-diameter core sampler test sample into the matrix to collect the required mass of material (3 cm<sup>3</sup> should yield approximately 5 grams of sample [wet weight]).
- 5.1.1.3. Wipe clean any soil adhering to the outside of the small-diameter core sampler before weighing.
- 5.1.1.4. If the weight is above the required amount, remove excessive soil by extruding a small portion of the core and cutting it away with a decontaminated trowel or spatula. If the weight is below the weight limit, obtain additional soil by reinserting the small-diameter core sampler into the soil core. Re-weigh after each addition or removal of sample from the small-diameter core sampler until the target weight is attained. Note the sample volume and amount in the small-diameter core sampler.
- 5.1.1.5. Discard the test sample appropriately.
- 5.1.1.6. Use the volume of the test sample as a guide in collecting the appropriately sized sub-sample of a similar matrix. **Additional test samples should be weighed whenever a change in the matrix is observed.**





## 5.2. Overview of Procedure for Collection of Sub-Samples

The goal of soil sampling for the purposes of evaluating concentrations of contaminants in soil is to obtain a representative soil sample in accordance with the data quality objectives for the project. Often, this is accomplished using an appropriate small-diameter core sampler.

Different sample matrices (e.g., sand, gravel, clay, fill) will be encountered and may warrant slightly different sub-sampling field techniques. The goal for all techniques is to collect the sub-sample as quickly as possible while minimizing disruption. Environmental professionals should use good judgment as to how to handle samples that do not fit into the samplers and must describe the rationale for any deviations from this guidance.

The procedure for obtaining soil sub-samples is as follows:

- 5.2.1. Once the sampling interval has been selected, trim off the exposed surface of the matrix to expose a fresh surface. A loss of VOCs from the surface of the matrix will occur even if the matrix has been exposed for a short period of time (during screening, etc.). Removal of the unwanted surficial material can be accomplished by scraping the matrix surface with a decontaminated spatula or trowel. Soil sampling must commence immediately once a fresh surface has been exposed.
- 5.2.2. If hand augering, collect the sub-sample directly from the bottom of the hand auger immediately after pulling it from the ground. Do not attempt to remove the soil from the hand auger first. Hand augering may be needed occasionally to establish utility clearance.
- 5.2.3. Using the test sample as a guide, push the small-diameter core sampler into the matrix to collect a volume of material that will yield the required mass of sample (wet weight) as determined by the analytical method.
- 5.2.4. Depending upon the texture, depth or moisture content, insert the small-diameter core sampler straight into the matrix, on an angle. Multiple insertions can be made to obtain the required sample weight.
- 5.2.5. After sample collection, wipe the outside of the small-diameter core sampler to remove any excess material adhering to the barrel.
- 5.2.6. Immediately open the sample container and extrude the soil core into the sample container that will be submitted to the laboratory. Avoid splashing any preservative, if present, out of the sample container by





holding the container at an angle while slowly extruding the soil core into the sample container. Do not immerse the small-diameter core sampler into the preservative. If an En Core<sup>®</sup>-type sampler is to be used for storage and shipment, prepare the sampler for shipment according to manufacturers instructions.

- 5.2.7. Collect the required number of sample containers or En Core<sup>®</sup>-type samplers based on the chosen preservation and analytical methods, as discussed in the subsequent section on soil preservation methods.
- 5.2.8. Include an additional sample for determination of soil moisture content and sample screening.
- 5.2.9. Ensure the threads and cap of the sample container or En Core<sup>®</sup>-type sampler are free of soil particles. Use a clean paper towel to remove soil particles from the threads and sealing surface of the sample container or En Core<sup>®</sup>-type sampler. The presence of soil particles will compromise the container's seal and may result in loss of preservative or VOCs. This loss ultimately may invalidate the sample analysis. Always make sure the sample lid is firmly secure.
- 5.2.10. Record the laboratory and field identification numbers in the field notes and on the chain of custody. Record the sample identification information on the sample container using a suitable marker. Container labels with wire or rubber band attachments can be used, provided they can be removed easily for sample weighing. Do not attach any additional adhesive-backed labels or tape to the sample containers unless requested by laboratory or specified in manufacturer instructions. This will increase the weight of the sample container and the laboratory will not be able to determine the sample weight.
- 5.2.11. After sample collection, immediately return the containers to an iced cooler. Sample containers from different locations should be placed in separate re-sealable bags to help avoid cross-contamination. The laboratory sample number or field sample identification number may be placed on the bag and cross-referenced on the chain of custody. The laboratory performing the analysis will determine the sample weight.

## **6. Preservation of the Soil Sample**

### **6.1. Overview of the Soil Preservation Procedure**





The preservation of samples for VOC analysis can be initiated either at the time of sample collection or in the laboratory. This section deals with the preservation of soil samples in the field using chemical and physical preservation methods.

It is important that the laboratory analytical methods, field preservation methods, appropriate sample containers and sample holding times are determined prior to mobilizing to the field. It is also necessary to consider that additional sample containers maybe required for various quality control/ quality assurance (QA/QC) samples such as matrix-spike and matrix-spike duplicates (MS/MSD). The number of extra containers required varies by laboratory and analytical procedure.

In addition to the various chemical preservation methods, samples must be physically preserved (e.g. iced or frozen) in the field immediately upon sample collection. It is important to match up the correct physical preservation method with the appropriate sample container and field chemical preservation method. According to USEPA Contract Laboratory Protocol (CLP) Guidance for Field Samplers, the physical preservation methods are described as:

Iced – soil and sample containers are cooled to  $4^{\circ} \pm 2^{\circ}\text{C}$ .

Frozen – soil and sample containers are cooled to between  $-7^{\circ}$  to  $-15^{\circ}\text{C}$ .

Sample containers that will be frozen should be placed on their side prior to freezing process to prevent breakage. Additional aliquots for screening and moisture determination need only be iced and kept cooled at  $4^{\circ} \pm 2^{\circ}\text{C}$ ; these sample containers should not be frozen. ***Sample containers and En Core®-type samplers should not be frozen below  $-20^{\circ}\text{C}$ , as the integrity of the container seals, o-rings and septum may be compromised by the freezing, resulting in the loss of VOCs upon thawing of the sample.***

In addition, the use of dry ice to freeze samples immediately upon sample collection or for use during shipment is not recommended. Dry ice, which is at a temperature of  $-78.5^{\circ}\text{C}$ , will lower the temperature of the sample container below the design specifications, causing damage to the glass, septum, seals, o-rings, and cap. In addition, dry ice has specific handling, storage and shipping requirements that outweigh its usefulness to the field sampling team.

## 6.2. Sub-Soil Sample Collection Procedures

When collecting soil sub-samples for determination of volatile organic compounds, up to four types of samples may be required:

- A high-concentration-level sample (two options)
- A low-concentration-level sample (four options)





- An SPLP/TCLP sample
- A sample for percent solids determination

When the expected VOC concentrations are not known, it is recommended to collect both the high- and low-concentration samples. The analysis procedure should be coordinated with the laboratory. For example, one approach would be to analyze one first (and if needed, the second one).

Additional samples may be necessary for matrix spikes and matrix spike duplicates. Field and trip blanks also may be required.

An overview of the various options for sample collection procedures is attached as Figure 1.

### 6.3. High-Concentration Sub-sample Collection Procedures

There are two options for collection of the high-concentrations sample: collection of the sample in a methanol preserved VOA vial or using En Core<sup>®</sup>-type samplers.

#### 6.3.1. OPTION 1 – High Concentration Sample, Methanol Preservation

Supplies:

- Electronic field balance accurate to 0.1 grams
- Minimum of one VOA vial (40 ml), pre-weighed and containing 5 or 10 ml of methanol
- Sub-sampling device

- 6.3.1.1. Label the vials as appropriate. Do not add excessive labels (e.g. more weight) to the pre-weighed vials.
- 6.3.1.2. Weigh the vials to confirm the recorded vial weight.
- 6.3.1.3. Select the area to be sampled as soon as possible after the soil is exposed.
- 6.3.1.4. Obtain a test sample, using the coring device and field balance, to determine approximately how much volume of soil will yield equal grams of soil to methanol ( $5 \text{ or } 10 \pm 1$  grams). This step may be skipped when the amount of soil needed for a particular matrix at a site has been determined.
- 6.3.1.5. Scrape away the surface material from the area to be sampled to expose fresh soil.





- 6.3.1.6. Rapidly insert the syringe into the soil to obtain the sample. Quickly extrude the sample into the vial containing the methanol. Wipe off the threads and cap; seal the vial.
- 6.3.1.7. Using the field balance, weigh and record the weight of the vial. A record of the weight must be submitted with the samples to the laboratory.
- 6.3.1.8. Place sample in cooler with ice.
- 6.3.1.9. Collect separate sample for percent solids, if necessary.

#### **6.3.2. OPTION 2 - High-Concentration Sample, Using En Core®-Type Samplers**

Supplies:

- One 5 or 10-gram En Core®-type Sampler

- 6.3.2.1. Label the sample as appropriate.
- 6.3.2.2. Select the area to be sampled as soon as possible after the soil is exposed.
- 6.3.2.3. Scrape away the surface material from the area to be sampled to expose fresh soil.
- 6.3.2.4. Rapidly insert the sampler into the soil to obtain the sample. Quickly wipe the contact areas to remove any soil particles, close and seal the device.
- 6.3.2.5. Place devices in re-sealable pouch, place in cooler on ice.
- 6.3.2.6. Collect separate sample for percent solids, if necessary.
- 6.3.2.7. Samples must be frozen, preserved or analyzed within 48 hours of collection.

#### **6.4. Low-Concentration Sub-Sample Collection Procedures**

There are four options for collecting low-concentration soil samples:

- Collection in VOA vials containing water.





- Collection in empty VOA vials.
- Collection in VOA vials containing sodium bisulfate.
- Collection using En Core<sup>®</sup>-type devices.

All of the procedures using VOA vials are essentially the same, except for the media contained in the vial. It should be noted that sodium bisulfate preservation might lead to formation of acetone in samples containing high amount of humic material. Additionally, certain analytes, such as styrene, vinyl chloride, trichloroethylene (TCE), may be decomposed by the bisulfate, leading to low-biased results. Also carbonate rich soils may effervesce. The effervescing will result in significant losses of VOCs, and in such cases the sodium bisulfate cannot be used. Environmental professionals should use caution in using this preservation technique. **For these reasons, the DEP recommends use of the one of the other low-level preservation options. If the sodium bisulfate preservation option is used, the data should be considered in relation to the conceptual site model.**

#### 6.4.1. OPTION 1 - Low-Concentration Sample, Using VOA Vials Containing Water

##### Supplies:

- Electronic field balance accurate to 0.1 grams.
  - 2 VOA vials (40 ml), pre-weighed and containing 5 ml of water and a magnetic stir bar.
  - Sub-sampling device.
- 6.4.1.1. Label the vials as appropriate. Do not add excessive labels (e.g. more weight) to the pre-weighed vials.
- 6.4.1.2. Select the area to be sampled as soon as possible after the soil is exposed.
- 6.4.1.3. Obtain a test sample, using the coring device and field balance, to determine approximately how much volume of soil will yield 5 grams of soil. Note that the sample weight should be within 1 gram of the nominal weight, e.g.  $5 \pm 1$  gram. This step may be skipped when the amount of soil needed for a particular matrix at a site has been determined.
- 6.4.1.4. Scrape away the surface material from the area to be sampled to expose fresh soil.





- 6.4.1.5. Rapidly insert the syringe into the soil to obtain the first 5-gram sample. Quickly extrude the sample into one of the two vials containing the water. Wipe off the threads and cap; seal the vial.
- 6.4.1.6. Repeat steps 6.4.1.4 & 6.4.1.5 for the second vial containing water.
- 6.4.1.7. Using the field balance, weigh and record the weight of each vial. A record of the weight must be submitted with the samples to the laboratory.
- 6.4.1.8. Place all samples in cooler with ice.
- 6.4.1.9. Collect separate sample for percent solids, if necessary.
- 6.4.1.10. Samples must be frozen or analyzed within 48 hours of collection.

**6.4.2. OPTION 2 - Low-Concentration Sample, Collection in Empty VOA Vials**

**Supplies:**

- Electronic field balance accurate to 0.1 grams.
  - 2 VOA vials (40 ml), pre-weighed containing a magnetic stir bar.
  - Sub-sampling device.
- 6.4.2.1. Label the vials as appropriate. Do not add excessive labels (e.g. more weight) to the pre-weighed vials.
  - 6.4.2.2. Select the area to be sampled as soon as possible after the soil is exposed.
  - 6.4.2.3. Obtain a test sample using the coring device and field balance, to determine approximately how much volume of soil will yield 5 grams of soil. Note that the sample weight should be within 1 gram of the nominal weight, e.g.  $5 \pm 1$  gram. This step may be skipped when the amount of soil needed for a particular matrix at a site has been determined.





- 6.4.2.4. Scrape away the surface material from the area to be sampled to expose fresh soil.
- 6.4.2.5. Rapidly insert the syringe into the soil to obtain the first 5-gram sample. Quickly extrude the sample into one of the two vials. Wipe off the threads and cap; seal the vial.
- 6.4.2.6. Repeat steps 6.4.2.4 & 6.4.2.5 for the second vial.
- 6.4.2.7. Using the field balance, weigh and record the weight of each vial. A record of the weight must be submitted with the samples to the laboratory.
- 6.4.2.8. Place all samples in cooler with ice.
- 6.4.2.9. Collect separate sample for percent solids, if necessary.
- 6.4.2.10. Samples must be frozen or analyzed within 48 hours of collection.

**6.4.3. OPTION 3: Low-Concentration Sample, Collection in VOA Vials Containing Sodium Bisulfate**

**Supplies:**

- Electronic field balance accurate to 0.1 grams.
  - 2 VOA vials (40 ml), pre-weighed containing 5 ml sodium bisulfate solution and a magnetic stir bar.
  - Sub-sampling device.
- 6.4.3.1. Label the vials as appropriate. Do not add excessive labels (e.g. more weight) to the pre-weighed vials.
  - 6.4.3.2. Select the area to be sampled as soon as possible after the soil is exposed.
  - 6.4.3.3. Obtain a test sample using the coring device and field balance to determine approximately how much volume of soil will yield 5 grams of soil. Note that the sample weight should be within 1 gram of the nominal weight, e.g.  $5 \pm 1$  gram. This step may be skipped when the amount of soil needed for a particular matrix at a site has been determined.





- 6.4.3.4. Scrape away the surface material from the area to be sampled to expose fresh soil.
- 6.4.3.5. Rapidly insert the syringe into the soil to obtain the first 5-gram sample. Quickly extrude the sample into one of the two vials containing the bisulfate solution. Wipe off the threads and cap; seal the vial.
- 6.4.3.6. Repeat steps 6.4.3.4 and 6.4.3.5 for the second vial.
- 6.4.3.7. Using the field balance, weigh and record the weight of each vial. A record of the weight must be submitted with the samples to the laboratory.
- 6.4.3.8. Place all samples in cooler with ice.
- 6.4.3.9. Collect separate sample for percent solids, if necessary.

6.4.4. **OPTION 4 - Low-Concentration Sample, Collection Using En Core<sup>®</sup>-Type Devices**

Supplies:

- Two 5-gram En Core<sup>®</sup>-type sampling devices

- 6.4.4.1. Label the sample as appropriate.
- 6.4.4.2. Select the area to be sampled as soon as possible after the soil is exposed.
- 6.4.4.3. Scrape away the surface material from the area to be sampled to expose fresh soil.
- 6.4.4.4. Rapidly insert the sampler into the soil to obtain the first sample. Quickly wipe the contact areas to remove any soil particles, close and seal the device. Place device in re-sealable pouch
- 6.4.4.5. Repeat steps 6.4.4.3 and 6.4.4.4 for the second En Core<sup>®</sup>-type device.
- 6.4.4.6. Place both devices in re-sealable pouches, place in cooler on ice.





- 6.4.4.7. Collect separate sample for percent solids, if necessary.
- 6.4.4.8. Samples must be frozen, preserved or analyzed within 48 hours of collection.

#### 6.5. Collection of Soil Samples for TCLP or SPLP Volatile Organic Analysis

The holding time for soil samples to begin the leaching procedure for TCLP or SPLP extraction for VOC analysis is 14 days from collection. If the environmental professional requests the laboratory to hold the samples until the results of the total (e.g., mass) analysis for VOCs is available, the total analysis must be available within a time-frame that will permit the environmental professional to give the laboratory sufficient notice to be able to start the SPLP/TCLP leaching within the 14-day holding time.

##### Supplies:

- 25-gram En Core<sup>®</sup>-Type Sampler.

- 6.5.1.1. Label the sampler as appropriate.
- 6.5.1.2. Select the area to be sampled as soon as possible after the soil is exposed.
- 6.5.1.3. Scrape away the surface material from the area to be sampled to expose fresh soil.
- 6.5.1.4. Rapidly insert the sampler into the soil to obtain the sample. Wipe off the threads and cap; seal the sampler.
- 6.5.1.5. Place sampler in re-sealable pouch and place in cooler with ice.
- 6.5.1.6. Samples must be frozen or leached within 48 hours of collection.

#### 6.6. Collection of Soil Samples for Percent Solids Determination

A laboratory typically can use any container submitted for analysis to determine the percent solids of a soil, **except a container submitted for VOC analysis**. If the other laboratory analyses, besides volatile organic compounds (either total or TCLP/SPLP volatiles), are to be performed on soil for a given sampling interval and location, a separate container(s) will be needed for the other tests. The percent solids determination can then be performed using the soil in the container(s) for the other tests. In the event that only VOCs are to be determined for a given soil





sample, the environmental professional must collect additional sample (no more than 20 grams would be needed) in a separate container for submittal to the laboratory. Typically, a small plastic container would suffice, although any container would do.

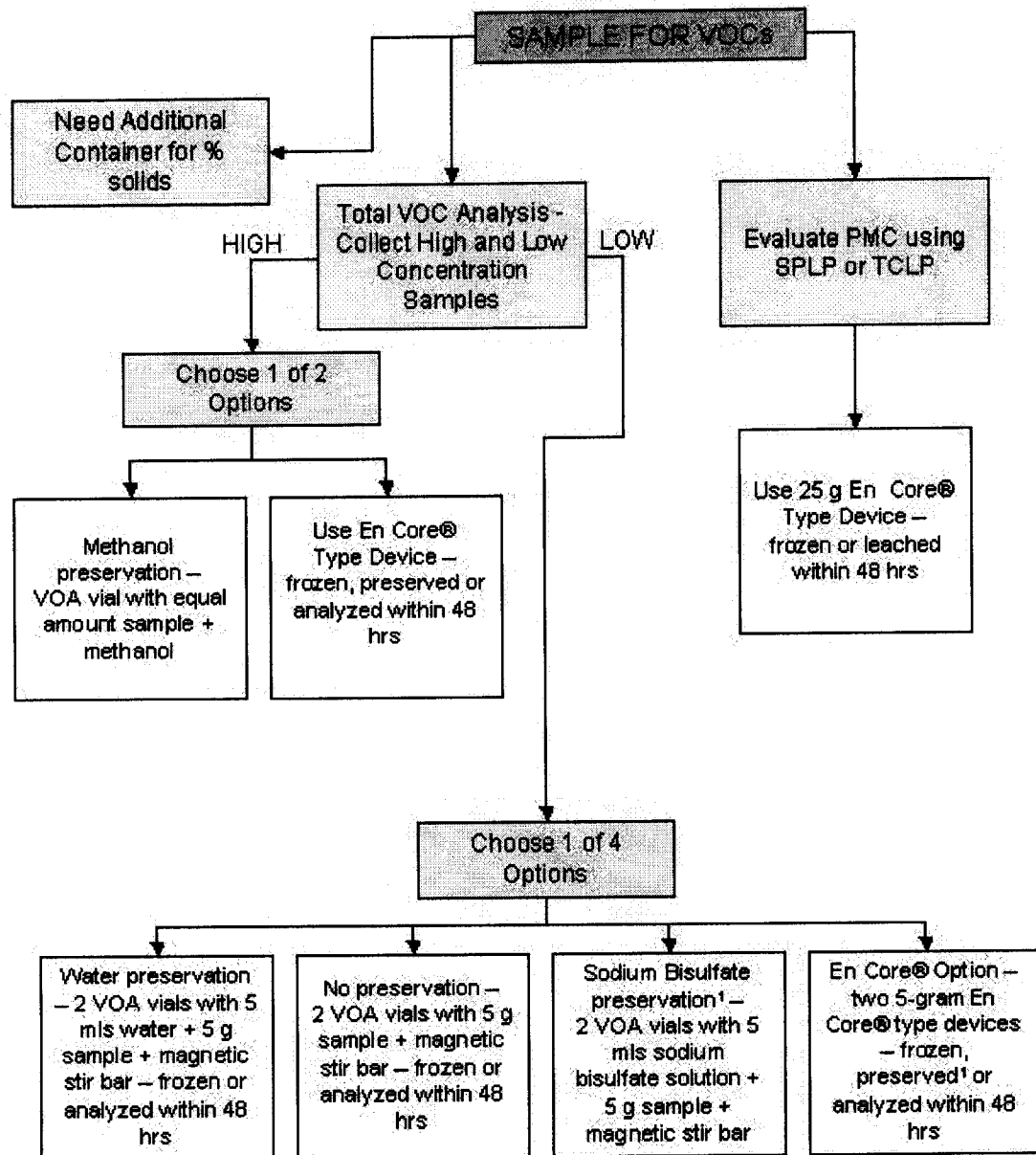
## 7. References

- 7.1. State of Connecticut, Department of Environmental Protection, *Guidance for Collecting and Preserving Soil and Sediment Samples for Laboratory Determination of Volatile Organic Compounds*, Version 2.0, February 28, 2006.
- 7.2. United States Environmental Protection Agency (EPA), *Behavior and Determination of Volatile Organic Compounds in Soil*, EPA/600/R-93/140, May 1993.
- 7.3. United States Army Corps of Engineers (USACE), Chemical Preservation of Volatile Organic Compounds in Soil Subsamples, Hewitt, A.D., USACE Special Report 95-5, February 1995.
- 7.4. Hewitt, A.D. and Lukash, N., USACE, *Obtaining and Transferring Soils for In-Vial Analysis of Volatile Organic Compounds*, USACE Special Report 96-5, February 1996.
- 7.5. USACE, *Sample Collection and Preparation Strategies for Volatile Organic Compounds in Solids* (October 1998). <http://clu-in.org/download/stats/sampling.pdf>.
- 7.6. Hewitt, A.D., USACE, *Preparing Soil Samples for Volatile Organic Compound Analysis*, USACE Special Report 97-11, April 1997.
- 7.7. Hewitt, A.D., USACE, *Storage and Preservation of Soil Samples for Volatile Organic Compound Analysis*, USACE Special Report 99-5, May 1999.
- 7.8. Connecticut Department of Environmental Protection Laboratory Quality Assurance and Quality Control Workgroup, *Rationale for Preservation of Soil and Sediment Samples for Determination of Volatile Organic Compounds*, October 2005, <http://www.epoc.org>.





**Figure 1 – Sample Collection Flow Chart**



1. Not appropriate for all circumstances – see Section 4.4 of this document





**Loureiro Engineering Associates, Inc.  
Standard Operating Procedure  
for  
Management of  
Investigation-Derived Waste**

**SOP ID: 10059  
Date Initiated: 03/04/09  
Revision No. 000: 00/00/00**

<b>Approved By:</b>	<u><i>/s/ Margaret Averill</i></u>	<u><i>03/04/09</i></u>
	<b>Margaret Averill, LEP</b>	<b>Date</b>
	<b>Vice President</b>	
	<u><i>/s/ Nick D. Skoularikis</i></u>	<u><i>03/04/09</i></u>
	<b>Nick D. Skoularikis</b>	<b>Date</b>
	<b>Senior Project Manager</b>	



## REVISION RECORD

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<u>Rev #</u>	<u>Date</u>	<u>Additions/Deletions/Modifications</u>
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Initial Issue	03/04/09	
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**Loureiro Engineering Associates, Inc.**  
**Standard Operating Procedure**  
**for**  
**Management of**  
**Investigation-Derived Waste**

**1. Purpose and Scope**

During field investigation activities, there are various investigation derived wastes (IDW) generated by day-to-day operations that may pose a risk to human health and the environment. Types of IDW include:

- Soil cuttings;
- Drilling muds;
- Purged groundwater;
- Decontamination fluids (water and other fluids);
- Disposable sampling equipment; and
- Contaminated disposable personal protective equipment (PPE).

These materials are typically stored in containers (i.e. portable devices including 55-gallon drums, cubic yard boxes, roll-off containers, etc.) temporarily and managed by the client/property owner prior to off-site disposal.

The management of IDW at Loureiro Engineering Associates, Inc. (LEA) client sites must be performed in such a way as to ensure protection of human health and the environment and must comply with applicable regulatory requirements.

**2. Definitions**

- 2.1. IDW are wastes generated during the normal course of environmental site investigations and include materials such as soil cuttings, purge waters, drilling muds, PPE, and decontamination fluids.
- 2.2. Temporary storage: Temporary storage is defined as the holding of waste materials for a temporary period, at the end of which the waste material is treated, disposed of, or stored elsewhere.
- 2.3. Container: A container is a portable device in which a material is stored, transported, treated, disposed of, or otherwise handled.



### **3. Equipment**

- 3.1. Containers (Open-top & closed-top drums, cubic yard boxes, totes, roll-offs, etc.).
- 3.2. Containment pallets.
- 3.3. Wood pallets.
- 3.4. Adhesive labels.
- 3.5. Clear tape.
- 3.6. Indelible markers.
- 3.7. Paint stick.

### **4. Procedure**

#### **4.1. Pre-job communications**

- 4.1.1. The project manager or designee shall communicate with the assigned field personnel the management methods for IDW generated at the site. Based on the planned scope of work, ensure the appropriate number and types of containers are available for the volume and types of IDW generated.
- 4.1.2. Clearly identify how the naming convention for IDW containers at the site will be done to facilitate identification at time of disposal. Note: some clients/sites issue containers with existing container identifications (IDs) and labels, however, this is not typical. Typically, we provide containers and assign a unique container designation that consists of the following information, each separated by a dash:

4.1.2.1. A two-letter site identifier (e.g., XY-):

4.1.2.2. A two digit container type identifier (e.g., OT-)

4.1.2.3. A three-digit container identifier (e.g., 001)

Using the above information, the resulting container designation is XY-OT-001. Container type identifiers are as follows:

OT – Open Top Drum  
CT – Closed Top Drum  
CY – Cubic Yard Box  
5G – 5 Gallon Pail  
PT – Portable Tank/Tote  
RO – Roll-Off



- 4.1.3. Based on Resource Conservation and Recovery Act (RCRA) regulations, a site may be limited in the number of hazardous waste containers on a site at any given time (i.e., small quantity generators and conditionally exempt quantity generators). If it is known or presumed that the IDW generated meets the definition of a hazardous waste, the project manager or designee shall communicate with the assigned field personnel the maximum amount of waste that may be generated at the site prior to IDW characterization.

#### 4.2. Temporary storage area location:

- 4.2.1. The location chosen for the temporary storage of IDW must be determined in advance and approved by the project manager or client. At locations where the client may not be the property owner, a location must be approved by the operating facility manager to ensure that they have knowledge of the material in case of an emergency condition (fire, flood, storm, etc.) and that the storage/location of the containers does not interfere with daily operations.
- 4.2.2. The location of the temporary storage area should be level and stable in order to prevent containers from shifting/tipping.
- 4.2.3. The location chosen should be readily accessible for waste vendors and transportation vehicles at the time of off-site disposal. Containers should not be located in areas which are not accessible for their removal.

#### 4.3. Container Identification

- 4.3.1. Clearly identify each container with a unique container identification number and record information on daily field sheet. Write generator site name/address and a description of the waste along with the accumulation date on adhesive label and attach to the side of the container. The container markings should also include the words “investigation derived waste pending determination” and the container designation. The markings and labels should be covered with clear tape to prevent wash off and fading. A sample label is provided below. **Note:** once a container is full the word “full” should be marked on the container so that no additional material is added.



XYZ Corporation  
10 Main Street  
Somewhere, CT 00000  
  
Investigation-Derived Waste Pending Determination  
(Soil Cuttings, Disposable sampling equipment)  
XY-OT-001  
  
Accumulation Start Date: 03/05/2009

- 4.3.2. If a label is not available, use a paint marker and paint the following information on the side of the container: "Investigation derived waste pending determination", Container ID, description of the waste and accumulation date.
- 4.3.3. If it is known or presumed that the IDW generated meets the definition of a hazardous waste, the IDW drum shall be labeled as specified by the project manager and/or the site-specific work plan, but at a minimum should be marked with the words "hazardous waste" along with the other labeling information listed above.

#### 4.4. Container Management

- 4.4.1. Only use containers that are compatible with the IDW generated.
- 4.4.2. Containers must be closed securely except when actively adding or removing waste.
- 4.4.3. Do not handle containers in a manner that could cause them to leak.
- 4.4.4. If a container holding IDW is not in good condition, or it begins to leak, transfer the IDW to another container in good condition.
- 4.4.5. Open-top drums are for the management of solid-phase IDW only (i.e., soil, PPE, disposable sampling equipment, debris). Liquid-phase IDW must not be managed in open-top drums.
- 4.4.6. Do not completely fill liquid containers. Leave at least two to four inches of headspace in all liquid containers to allow for expansion (in the event of heat generation or freezing conditions). To minimize the potential for container failure, work with the client to arrange for disposal of the IDW as soon as possible following generation.



- 4.4.7. Any IDW that is known to be characteristically hazardous for ignitability (D001) or reactivity (D003) must be stored at least 50 feet from the facility property line.

#### 4.5. Temporary storage area management

- 4.5.1. Containers of IDW known to be hazardous should be physically segregated from non-hazardous IDW to minimize the volume of hazardous IDW that must be disposed of.
- 4.5.2. Place containers on surface that will allow monitoring for leakage. Liquid containers must be stored off the ground surface (e.g., be placed on a shipping pallet). If the IDW is known or presumed that the IDW generated meets the definition of a hazardous waste, the IDW must be placed on an impervious surface, such as a coated concrete floor or a containment pallet. Asphalt or uncoated concrete do not constitute an impervious surface.
- 4.5.3. Provide adequate access to each container for the purposes of inspection and emergency response. Containers must be arranged so that each container may be accessed.
- 4.5.4. If the IDW is incompatible with other wastes generated or materials stored in the area, (e.g., acids and bases), segregate the containers by waste type. Do not store incompatible wastes/materials together.
- 4.5.5. Arrange containers on pallet in a manner in which that identification information is visible (facing outward).
- 4.5.6. If temporary storage area is located outside, cover containers with plastic sheeting and secure sheeting to prevent rips, tears, and loss.
- 4.5.7. If there are a large number of containers, segregate by waste type (e.g., soil/groundwater/decon fluid, hazardous/non-hazardous/PCBs). It is likely that different handling will be required for the contents.
- 4.5.8. When demobilizing from the site, confirm waste container storage area free of waste materials and/or debris upon departure. Photograph the storage area to document the condition, if possible.

#### 4.6. Post-Job Client Communications

- 4.6.1. Upon completion of sampling activities, provide the client with a copy of the IDW inventory on-site.



- 4.6.2. Upon receipt of the analytical data, provide the client with a copy of the data to assist with characterization and disposal of the IDW containers on-site.
- 4.6.3. Additional assistance with characterization and/or management of IDW may be provided for certain clients as specified by the project manager and/or the site-specific work plan.

## **5. Safety**

- 5.1 Proper safety precautions must be followed during the management and handling of IDW. Site specific health & safety plans should be consulted for guidelines on safety precautions, including movement of containers and chemical safety.

## **6. Records and Markings**

- 6.1. Due to the time limitations and restrictions posed by RCRA regulations on storage of hazardous waste, accumulation dates should be identified on all containers of IDW so that they can be managed in a timely manner.
- 6.2 Summarize waste container inventory on “Waste Container Inventory Sheet” included as Attachment 1, and include with daily field record sheets when no additional waste will be generated.
- 6.3. Provide facility representative with waste container inventory to allow them to make arrangements for disposal.

## **7. References**

- 7.1. *Management of Investigation Derived Waste*, United States Environmental Protection Agency, Science and Ecosystem Support Division, Operating Procedure SESDPROC-202-R1, November 1, 2007.
- 7.2. *Management of Remediation Waste Under RCRA*, United States Environmental Protection Agency, Publication EPA/530-F-98-026, October 1998.
- 7.3. *Superfund Program Representative Sampling Guidance, Volume 4: Waste*, United States Environmental Protection Agency, OSWER Directive 9360.4-14, Publication EPA/540/R-95/141, December 1995.
- 7.4. *Guide to Management of Investigation-Derived Wastes*, United States Environmental Protection Agency, OSWER Directive 9345.3-03FS, April 1992.



**ATTACHMENT 1**

**Waste Container Inventory Sheet**





# WASTE CONTAINER INVENTORY SHEET

Page \_\_ of \_\_

Loureiro Engineering Associates, Inc.

<b>PROJECT:</b>						<b>COMM NO.:</b>		
<b>CLIENT:</b>						<b>DATE:</b>		
<b>LOCATION:</b>						<b>PREPARED BY:</b>		
#	Waste Container ID	Description of Contents	Accumulation State Date	Container Full		Container Labeled	Container in Good Condition	Sample Locations (Borings, wells, etc.) associated with container
				Yes	No			



## **APPENDIX B**

### **Geologic Boring Logs**



# GEOLOGIC BORING LOG

Page 1 of 1

<b>Project:</b> CTDECD Mystic 240 Oral School Rd-Ph II <b>LEA Commission Number</b> 18HM301.002 <b>Client</b> Connecticut DECD <b>Location</b> Mystic - 240 Oral School Road				<b>Start Date</b> 01/24/2013  <b>End Date</b> 01/24/2013	<b>Boring ID</b> <b>MW-01</b>
<b>Drilling Contractor</b> Loureiro Engineering Associates, Inc. <b>Drilling Method</b> Direct Push <b>Sampling Method</b> Macro Core <b>Groundwater Observation</b> <b>Depth</b> 8.0 at <b>Hours</b> <b>Depth</b> at <b>Hours</b>				<b>Logged by</b> Keith Volkert <b>Drilling Foreman</b> Jeremy Corcoran <b>Drill Rig</b> Geoprobe 6610DT <b>Surface Elevation</b> <b>Latitude</b> <b>Longitude</b>	
Depth	Sample Information			Soil Description Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structure, Density, Cohesiveness, Other	PID/FID ppm
	Sample No.	Recovery (%)	Blows /6"		
0-     	1273755	50		Top 2": Top Soil Bottom 10": Brown medium to coarse GRAVEL, trace brown very fine Sand, trace (-) Silt, loose, moist	0.0
2-     	1273756	50		Dark brown fine to very fine SAND, little (+) fine to medium Gravel, loose, moist	0.0
4-     	1273757	54		Brown fine to very fine SAND, trace medium Sand, trace (+) fine to medium Gravel, loose, moist	0.0
6-     	1273758	54		As Above	0.0
8- V     	1273759	63		Gray very fine to medium SAND, some fine to medium Gravel, moderately dense, wet	0.0
10-       12	1273760	63		As Above  Bottom of Boring at 12'	0.0





# GEOLOGIC BORING LOG

Page 1 of 1

<b>Project:</b> CTDECD Mystic 240 Oral School Rd-Ph II <b>Commission Number</b> 18HM301.002 <b>Client</b> Connecticut DECD <b>Location</b> Mystic - 240 Oral School Road				<b>Start Date</b> 01/24/2013  <b>End Date</b> 01/24/2013	<b>Boring ID</b> <b>MW-02</b>
<b>Drilling Contractor</b> Loureiro Engineering Associates, Inc. <b>Drilling Method</b> Direct Push <b>Sampling Method</b> Macro Core <b>Groundwater Observation</b> <b>Depth</b> 5.2 at <b>Hours</b> <b>Depth</b> at <b>Hours</b>				<b>Logged by</b> Keith Volkert <b>Drilling Foreman</b> Jeremy Corcoran <b>Drill Rig</b> Geoprobe 6610DT <b>Surface Elevation</b> <b>Latitude</b> <b>Longitude</b>	
Depth	Sample Information			Soil Description Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structure, Density, Cohesiveness, Other	PID/FID ppm
	Sample No.	Recovery (%)	Blows /6"		
0-	1273775	88		Dark brown fine to very fine SAND, trace Silt, trace fine Gravel, loose, moist	0.0
0.5-	1273776	88		Dark brown fine to medium SAND, little Asphalt pieces, Ash, loose, moist	0.0
2-	1273777	88		Brown fine to very fine SAND, trace Silt, trace fine Gravel, loose, moist	0.0
4- V	1273778	67		Yellow brown gray mottled fine to very fine SAND, trace Silt, trace fine to medium Gravel, loose, moist	0.0
6-	1273779	67		As Above, wet	0.0
8- 10	1273780	100		Yellow gray fine to very fine SAND, some fine to medium Gravel, loose, wet  Geoprobe Refusal at 10'	0.0





# GEOLOGIC BORING LOG

Page 1 of 1

<b>Project:</b> CTDECD Mystic 240 Oral School Rd-Ph II <b>Commission Number</b> 18HM301.002 <b>Client</b> Connecticut DECD <b>Location</b> Mystic - 240 Oral School Road				<b>Start Date</b> 01/28/2013  <b>End Date</b> 01/28/2013	<b>Boring ID</b> <b>MW-03</b>
<b>Drilling Contractor</b> Loureiro Engineering Associates, Inc. <b>Drilling Method</b> Direct Push <b>Sampling Method</b> Macro Core <b>Groundwater Observation</b> <b>Depth</b> 5.4 at <b>Hours</b> <b>Depth</b> at <b>Hours</b>				<b>Logged by</b> Keith Volkert <b>Drilling Foreman</b> Jeremy Corcoran <b>Drill Rig</b> Geoprobe 6610DT <b>Surface Elevation</b> <b>Latitude</b> <b>Longitude</b>	
Depth	Sample Information			Soil Description Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structure, Density, Cohesiveness, Other	PID/FID ppm
	Sample No.	Recovery (%)	Blows /6"		
0-     	1273829	58		Top 2": Asphalt Bottom 12": Brown fine to very fine SAND, trace (+) fine to medium Gravel, trace (-) medium to coarse Sand, loose, moist	0.0
2-     	1273830	58		As Above (bottom 12")	0.0
4-   V   	1273831	54		Dark brown fine to very fine SAND, little (-) Silt, trace (+) fine to medium Gravel, loose, wet	0.0
6-     	1273832	54		Brown fine to very fine SAND, trace (+) Silt, trace (-) medium Gravel, loose, wet	0.0
8-     	1273833	69		As Above	0.0
10-       12.4	1273834	69		Brown fine to very fine SAND and fine to coarse GRAVEL, moderately dense, moist  Geoprobe Refusal at 12.4'	0.0





## GEOLOGIC BORING LOG

Page 1 of 1

<b>Project:</b> CTDECD Mystic 240 Oral School Rd-Ph II				<b>Start Date</b> 01/24/2013	<b>Boring ID</b> <b>SB-001</b>
<b>Commission Number</b> 18HM301.002				<b>End Date</b> 01/24/2013	
<b>Client</b> Connecticut DECD					
<b>Location</b> Mystic - 240 Oral School Road					
<b>Drilling Contractor</b> Loureiro Engineering Associates, Inc.				<b>Logged by</b>	Keith Volkert
<b>Drilling Method</b> Direct Push				<b>Drilling Foreman</b>	Jeremy Corcoran
<b>Sampling Method</b> Macro Core				<b>Drill Rig</b>	Geoprobe 97
<b>Groundwater Observation</b>				<b>Surface Elevation</b>	
<b>Depth</b>	4.00	<b>at</b>	<b>Hours</b>	<b>Latitude</b>	
<b>Depth</b>		<b>at</b>	<b>Hours</b>	<b>Longitude</b>	

Depth	Sample Information			Soil Description Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structure, Density, Cohesiveness, Other	PID/FID ppm
	Sample No.	Recovery (%)	Blows /6"		
0-     	1273750	77		Top 4": Top Soil Bottom 14.5": Brown fine to very fine SAND, trace (+) fine Gravel, trace (-) Silt, loose, moist	0.0
2-     	1273751	77		Dark brown fine to very fine SAND, little Silt, trace medium Gravel Bottom 4": Yellow brown very fine SAND, some Silt, trace medium Gravel, loose, moist	0.0
4- V     	1273752	50		Light gray very fine SAND, little Silt, trace (-) Clay, moderately dense, wet	0.0
6-     	1273753	50		Light brown fine to very fine SAND, trace (+) medium Sand, Iron staining at 14" (from top), trace (+) medium to coarse Gravel, loose, wet	0.0
8-   9	1273754	100		Light gray fine to very fine SAND, trace medium Sand, little fine to medium Gravel, loose, wet  Geoprobe Refusal at 9'	0.0





# GEOLOGIC BORING LOG

Page 1 of 1

<b>Project:</b> CTDECD Mystic 240 Oral School Rd-Ph II <b>LEA Commission Number</b> 18HM301.002 <b>Client</b> Connecticut DECD <b>Location</b> Mystic - 240 Oral School Road				<b>Start Date</b> 01/24/2013  <b>End Date</b> 01/24/2013	<b>Boring ID</b> <b>SB-002</b>
<b>Drilling Contractor</b> Loureiro Engineering Associates, Inc. <b>Drilling Method</b> Hand Auger <b>Sampling Method</b> Grab <b>Groundwater Observation</b> <b>Depth</b> at <b>Hours</b> <b>Depth</b> at <b>Hours</b>				<b>Logged by</b> Jeremy Marcantonio <b>Drilling Foreman</b> Sam Rooney <b>Drill Rig</b> Hand Auger <b>Surface Elevation</b> <b>Latitude</b> <b>Longitude</b>	
Depth	Sample Information			Soil Description Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structure, Density, Cohesiveness, Other	PID/FID ppm
	Sample No.	Recovery (%)	Blows /6"		
0-	1270649	100		Dark brown fine to very fine SAND, some medium Sand, trace very fine Gravel, loose, moist	0.4
0.5-     2	1270650	100		As Above  Bottom of Boring at 2'	0.4





# GEOLOGIC BORING LOG

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<b>Project:</b> CTDECD Mystic 240 Oral School Rd-Ph II <b>Commission Number</b> 18HM301.002 <b>Client</b> Connecticut DECD <b>Location</b> Mystic - 240 Oral School Road				<b>Start Date</b> 01/24/2013  <b>End Date</b> 01/24/2013	<b>Boring ID</b> <b>SB-003</b>
<b>Drilling Contractor</b> Loureiro Engineering Associates, Inc. <b>Drilling Method</b> Direct Push <b>Sampling Method</b> Macro Core <b>Groundwater Observation</b> <b>Depth</b> at <b>Hours</b> <b>Depth</b> at <b>Hours</b>				<b>Logged by</b> Keith Volkert <b>Drilling Foreman</b> Jeremy Corcoran <b>Drill Rig</b> Geoprobe 97 <b>Surface Elevation</b> <b>Latitude</b> <b>Longitude</b>	
Depth	Sample Information			Soil Description Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structure, Density, Cohesiveness, Other	PID/FID ppm
	Sample No.	Recovery (%)	Blows /6"		
0-	1273768	100		Top 4": Top Soil Bottom 8": Brown fine to very fine SAND, trace medium Sand, trace Silt, trace fine Gravel, loose, moist	0.0
0.5-     2.0	1273769	100		As Above, bottom 8"  Bottom of Boring at 2'	0.0





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<b>Project:</b> CTDECD Mystic 240 Oral School Rd-Ph II <b>Commission Number</b> 18HM301.002 <b>Client</b> Connecticut DECD <b>Location</b> Mystic - 240 Oral School Road				<b>Start Date</b> 01/24/2013  <b>End Date</b> 01/24/2013	<b>Boring ID</b> <b>SB-004</b>
<b>Drilling Contractor</b> Loureiro Engineering Associates, Inc. <b>Drilling Method</b> Hand Auger <b>Sampling Method</b> Grab <b>Groundwater Observation</b> <b>Depth</b> at <b>Hours</b> <b>Depth</b> at <b>Hours</b>				<b>Logged by</b> Jeremy Marcantonio <b>Drilling Foreman</b> Sam Rooney <b>Drill Rig</b> Hand Auger <b>Surface Elevation</b> <b>Latitude</b> <b>Longitude</b>	
Depth	Sample Information			Soil Description Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structure, Density, Cohesiveness, Other	PID/FID ppm
	Sample No.	Recovery (%)	Blows /6"		
0-	1273744	100		Brown fine to very fine SAND, trace medium Sand, trace fine Gravel, loose, slightly moist	0.0
0.5-     2	1273745	100		As Above  Bottom of Boring at 2'	0.0





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<b>Project:</b> CTDECD Mystic 240 Oral School Rd-Ph II <b>Commission Number</b> 18HM301.002 <b>Client</b> Connecticut DECD <b>Location</b> Mystic - 240 Oral School Road				<b>Start Date</b> 01/24/2013  <b>End Date</b> 01/24/2013	<b>Boring ID</b> <b>SB-005</b>
<b>Drilling Contractor</b> Loureiro Engineering Associates, Inc. <b>Drilling Method</b> Direct Push <b>Sampling Method</b> Macro Core <b>Groundwater Observation</b> <b>Depth</b> 4.00 <b>at</b> <b>Hours</b> <b>Depth</b> <b>at</b> <b>Hours</b>				<b>Logged by</b> Keith Volkert <b>Drilling Foreman</b> Jeremy Corcoran <b>Drill Rig</b> Geoprobe 97 <b>Surface Elevation</b> <b>Latitude</b> <b>Longitude</b>	
Depth	Sample Information			Soil Description Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structure, Density, Cohesiveness, Other	PID/FID ppm
	Sample No.	Recovery (%)	Blows /6"		
0-	1273770	65		Top 2": Top soil Bottom 4": Brown fine to very fine SAND, trace medium Sand, trace (+) fine Gravel, trace (-) Silt, loose, moist	0.0
0.5-   	1273771	65		As Above (bottom 4")	0.0
2-     	1273772	65		Brown very fine SAND, trace (+) Silt, trace (-) fine Gravel, loose, moist	0.0
4- V     	1273773	83		Yellow brown gray mottled very fine SAND, some Silt, trace (-) fine Gravel, moderately dense, wet	0.0
6-       8	1273774	83		Orange fine to very fine SAND, little (-) Silt from 14"-21" Bottom 19": Gray brown fine to very fine SAND, trace medium Sand, little fine to medium Gravel, loose, wet  Geoprobe Refusal at 8'	0.0





# GEOLOGIC BORING LOG

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<b>Project:</b> CTDECD Mystic 240 Oral School Rd-Ph II <b>Commission Number</b> 18HM301.002 <b>Client</b> Connecticut DECD <b>Location</b> Mystic - 240 Oral School Road				<b>Start Date</b> 01/24/2013  <b>End Date</b> 01/24/2013	<b>Boring ID</b> <b>SB-006</b>
<b>Drilling Contractor</b> Loureiro Engineering Associates, Inc. <b>Drilling Method</b> Hand Auger <b>Sampling Method</b> Grab <b>Groundwater Observation</b> <b>Depth</b> at <b>Hours</b> <b>Depth</b> at <b>Hours</b>				<b>Logged by</b> Jeremy Marcantonio <b>Drilling Foreman</b> Sam Rooney <b>Drill Rig</b> Hand Auger <b>Surface Elevation</b> <b>Latitude</b> <b>Longitude</b>	
Depth	Sample Information			Soil Description Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structure, Density, Cohesiveness, Other	PID/FID ppm
	Sample No.	Recovery (%)	Blows /6"		
0-	1273746	100		Brown fine to very fine SAND, trace medium Sand, some very fine to fine Gravel, loose, slightly moist	0.0
0.5-     2	1273747	100		As Above  Bottom of Boring at 2'	0.0





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<b>Project:</b> CTDECD Mystic 240 Oral School Rd-Ph II <b>Commission Number</b> 18HM301.002 <b>Client</b> Connecticut DECD <b>Location</b> Mystic - 240 Oral School Road				<b>Start Date</b> 01/24/2013  <b>End Date</b> 01/24/2013	<b>Boring ID</b> <b>SB-007</b>
<b>Drilling Contractor</b> Loureiro Engineering Associates, Inc. <b>Drilling Method</b> Hand Auger <b>Sampling Method</b> Grab <b>Groundwater Observation</b> <b>Depth</b> at <b>Hours</b> <b>Depth</b> at <b>Hours</b>				<b>Logged by</b> Jeremy Marcantonio <b>Drilling Foreman</b> Sam Rooney <b>Drill Rig</b> Hand Auger <b>Surface Elevation</b> <b>Latitude</b> <b>Longitude</b>	
Depth	Sample Information			Soil Description Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structure, Density, Cohesiveness, Other	PID/FID ppm
	Sample No.	Recovery (%)	Blows /6"		
0-	1273748	100		Brown fine to very fine SAND, some medium Sand, some very fine to fine Gravel, loose, slightly moist	0.0
0.5-     2	1273749	100		As Above  Bottom of Boring at 2'	0.0





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<b>Project:</b> CTDECD Mystic 240 Oral School Rd-Ph II <b>Commission Number</b> 18HM301.002 <b>Client</b> Connecticut DECD <b>Location</b> Mystic - 240 Oral School Road				<b>Start Date</b> 01/24/2013  <b>End Date</b> 01/24/2013	<b>Boring ID</b> <b>SB-008</b>
<b>Drilling Contractor</b> Loureiro Engineering Associates, Inc. <b>Drilling Method</b> Direct Push <b>Sampling Method</b> Macro Core <b>Groundwater Observation</b> <b>Depth</b> at <b>Hours</b> <b>Depth</b> at <b>Hours</b>				<b>Logged by</b> Keith Volkert <b>Drilling Foreman</b> Jeremy Corcoran <b>Drill Rig</b> Geoprobe 97 <b>Surface Elevation</b> <b>Latitude</b> <b>Longitude</b>	
Depth	Sample Information			Soil Description Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structure, Density, Cohesiveness, Other	PID/FID ppm
	Sample No.	Recovery (%)	Blows /6"		
0-	1273781	75		Dark brown fine to very fine SAND, trace Silt, loose, moist	0.0
0.5-	1273782	75		Brown fine to very fine SAND, trace Silt, trace fine to medium Gravel, loose, moist	0.0
2-	1273783	75		As Above	0.0
4-   5		67		Pulverized Rock  Geoprobe Refusal at 5'	0.0





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<b>Project:</b> CTDECD Mystic 240 Oral School Rd-Ph II <b>Commission Number</b> 18HM301.002 <b>Client</b> Connecticut DECD <b>Location</b> Mystic - 240 Oral School Road				<b>Start Date</b> 01/29/2013  <b>End Date</b> 01/29/2013	<b>Boring ID</b> <b>SB-009</b>
<b>Drilling Contractor</b> Loureiro Engineering Associates, Inc. <b>Drilling Method</b> Hand Auger <b>Sampling Method</b> Grab <b>Groundwater Observation</b> <b>Depth</b> at <b>Hours</b> <b>Depth</b> at <b>Hours</b>				<b>Logged by</b> Keith Volkert <b>Drilling Foreman</b> Sam Rooney <b>Drill Rig</b> Hand Auger <b>Surface Elevation</b> <b>Latitude</b> <b>Longitude</b>	
Depth	Sample Information			Soil Description Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structure, Density, Cohesiveness, Other	PID/FID ppm
	Sample No.	Recovery (%)	Blows /6"		
0-   1	1273863	100		Top 6": Concrete Brown fine to very fine SAND, trace medium Sand, trace (+) fine to medium Gravel, loose, moist  Hand Auger Refusal at 1'	0.0





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<b>Project:</b> CTDECD Mystic 240 Oral School Rd-Ph II				<b>Start Date</b> 01/29/2013	<b>Boring ID</b> <b>SB-010</b>
<b>Commission Number</b> 18HM301.002				<b>End Date</b> 01/29/2013	
<b>Client</b> Connecticut DECD					
<b>Location</b> Mystic - 240 Oral School Road					
<b>Drilling Contractor</b> Loureiro Engineering Associates, Inc.				<b>Logged by</b>	Keith Volkert
<b>Drilling Method</b> Hand Auger				<b>Drilling Foreman</b>	Sam Rooney
<b>Sampling Method</b> Grab				<b>Drill Rig</b>	Hand Auger
<b>Groundwater Observation</b>				<b>Surface Elevation</b>	
<b>Depth</b> at <b>Hours</b>				<b>Latitude</b>	
<b>Depth</b> at <b>Hours</b>				<b>Longitude</b>	
Depth	Sample Information			Soil Description	PID/FID ppm
	Sample No.	Recovery (%)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structure, Density, Cohesiveness, Other	
0-     1.8	1273864	100		Top 6": Concrete Brown fine to medium SAND, trace medium Sand, trace fine to medium Gravel, loose, moist  Hand Auger Refusal at 1.8'	0.0





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<b>Project:</b> CTDECD Mystic 240 Oral School Rd-Ph II <b>Commission Number</b> 18HM301.002 <b>Client</b> Connecticut DECD <b>Location</b> Mystic - 240 Oral School Road				<b>Start Date</b> 01/29/2013  <b>End Date</b> 01/29/2013	<b>Boring ID</b> <b>SB-011</b>
<b>Drilling Contractor</b> Loureiro Engineering Associates, Inc. <b>Drilling Method</b> Hand Auger <b>Sampling Method</b> Grab <b>Groundwater Observation</b> <b>Depth</b> at <b>Hours</b> <b>Depth</b> at <b>Hours</b>				<b>Logged by</b> Keith Volkert <b>Drilling Foreman</b> Sam Rooney <b>Drill Rig</b> Hand Auger <b>Surface Elevation</b> <b>Latitude</b> <b>Longitude</b>	
Depth	Sample Information			Soil Description Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structure, Density, Cohesiveness, Other	PID/FID ppm
	Sample No.	Recovery (%)	Blows /6"		
0-     1.5	1273865	100		Top 6": Concrete Brown fine to very fine SAND, trace medium Sand, trace fine to medium Gravel, loose, moist  Hand Auger Refusal at 1.5'	0.0





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<b>Project:</b> CTDECD Mystic 240 Oral School Rd-Ph II <b>Commission Number</b> 18HM301.002 <b>Client</b> Connecticut DECD <b>Location</b> Mystic - 240 Oral School Road				<b>Start Date</b> 01/29/2013  <b>End Date</b> 01/29/2013	<b>Boring ID</b>  <b>SB-012</b>
<b>Drilling Contractor</b> Loureiro Engineering Associates, Inc. <b>Drilling Method</b> Hand Auger <b>Sampling Method</b> Grab <b>Groundwater Observation</b> <b>Depth</b> at <b>Hours</b> <b>Depth</b> at <b>Hours</b>				<b>Logged by</b> Keith Volkert <b>Drilling Foreman</b> Sam Rooney <b>Drill Rig</b> Hand Auger <b>Surface Elevation</b> <b>Latitude</b> <b>Longitude</b>	
Depth	Sample Information			Soil Description Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structure, Density, Cohesiveness, Other	PID/FID ppm
	Sample No.	Recovery (%)	Blows /6"		
0-       2	1273866	100		Top 6": Concrete Brown fine to very fine SAND, trace medium to coarse Sand, trace fine to medium Gravel, loose, moist  Bottom of Boring at 2'	0.0





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<b>Project:</b> CTDECD Mystic 240 Oral School Rd-Ph II <b>Commission Number</b> 18HM301.002 <b>Client</b> Connecticut DECD <b>Location</b> Mystic - 240 Oral School Road				<b>Start Date</b> 01/25/2013  <b>End Date</b> 01/25/2013	<b>Boring ID</b>  <b>SB-014</b>
<b>Drilling Contractor</b> Loureiro Engineering Associates, Inc. <b>Drilling Method</b> Direct Push <b>Sampling Method</b> Macro Core <b>Groundwater Observation</b> <b>Depth</b> at <b>Hours</b> <b>Depth</b> at <b>Hours</b>				<b>Logged by</b> Kara D'Onofrio <b>Drilling Foreman</b> Jeremy Corcoran <b>Drill Rig</b> Geoprobe 97 <b>Surface Elevation</b> <b>Latitude</b> <b>Longitude</b>	
Depth	Sample Information			Soil Description Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structure, Density, Cohesiveness, Other	PID/FID ppm
	Sample No.	Recovery (%)	Blows /6"		
0-       2	1273801	100		Top 12": Asphalt Bottom 12": Brown fine to very fine SAND, trace fine Gravel, loose, moist (sampled bottom 8")  Bottom of Boring at 2'	0.0





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<b>Project:</b> CTDECD Mystic 240 Oral School Rd-Ph II <b>Commission Number</b> 18HM301.002 <b>Client</b> Connecticut DECD <b>Location</b> Mystic - 240 Oral School Road				<b>Start Date</b> 01/25/2013  <b>End Date</b> 01/25/2013	<b>Boring ID</b>  <b>SB-015</b>
<b>Drilling Contractor</b> Loureiro Engineering Associates, Inc. <b>Drilling Method</b> Direct Push <b>Sampling Method</b> Macro Core <b>Groundwater Observation</b> <b>Depth</b> at <b>Hours</b> <b>Depth</b> at <b>Hours</b>				<b>Logged by</b> Keith Volkert <b>Drilling Foreman</b> Jeremy Corcoran <b>Drill Rig</b> Geoprobe 97 <b>Surface Elevation</b> <b>Latitude</b> <b>Longitude</b>	
Depth	Sample Information			Soil Description Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structure, Density, Cohesiveness, Other	PID/FID ppm
	Sample No.	Recovery (%)	Blows /6"		
0-       2	1273802	100		Top 12": Asphalt Bottom 12": Brown fine to very fine SAND, trace fine Gravel, loose, moist (sampled bottom 8")  Bottom of Boring at 2'	0.0





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<b>Project:</b> CTDECD Mystic 240 Oral School Rd-Ph II <b>Commission Number</b> 18HM301.002 <b>Client</b> Connecticut DECD <b>Location</b> Mystic - 240 Oral School Road				<b>Start Date</b> 01/25/2013  <b>End Date</b> 01/25/2013	<b>Boring ID</b>  <b>SB-016</b>
<b>Drilling Contractor</b> Loureiro Engineering Associates, Inc. <b>Drilling Method</b> Direct Push <b>Sampling Method</b> Macro Core <b>Groundwater Observation</b> <b>Depth</b> at <b>Hours</b> <b>Depth</b> at <b>Hours</b>				<b>Logged by</b> Keith Volkert <b>Drilling Foreman</b> Jeremy Corcoran <b>Drill Rig</b> Geoprobe 97 <b>Surface Elevation</b> <b>Latitude</b> <b>Longitude</b>	
Depth	Sample Information			Soil Description Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structure, Density, Cohesiveness, Other	PID/FID ppm
	Sample No.	Recovery (%)	Blows /6"		
0-       2	1273803	100		Top 12": Asphalt Bottom 12": Brown fine to very fine SAND, trace fine Gravel, loose, moist (sampled bottom 8")  Bottom of Boring at 2'	0.0





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<b>Project:</b> CTDECD Mystic 240 Oral School Rd-Ph II <b>Commission Number</b> 18HM301.002 <b>Client</b> Connecticut DECD <b>Location</b> Mystic - 240 Oral School Road				<b>Start Date</b> 01/25/2013  <b>End Date</b> 01/25/2013	<b>Boring ID</b> <b>SB-022</b>
<b>Drilling Contractor</b> Loureiro Engineering Associates, Inc. <b>Drilling Method</b> Direct Push <b>Sampling Method</b> Macro Core <b>Groundwater Observation</b> <b>Depth</b> at <b>Hours</b> <b>Depth</b> at <b>Hours</b>				<b>Logged by</b> Kara D'Onofrio <b>Drilling Foreman</b> Jeremy Corcoran <b>Drill Rig</b> Geoprobe 6610 <b>Surface Elevation</b> <b>Latitude</b> <b>Longitude</b>	
Depth	Sample Information			Soil Description Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structure, Density, Cohesiveness, Other	PID/FID ppm
	Sample No.	Recovery (%)	Blows /6"		
0.0-	1273800	75		Dark brown fine SAND, little Silt, loose, very moist	0.4
0.5-	1273804	75		As Above	0.3
2.0				Refusal at 2' Bottom of Boring at 2'	





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<b>Project:</b> CTDECD Mystic 240 Oral School Rd-Ph II <b>Commission Number</b> 18HM301.002 <b>Client</b> Connecticut DECD <b>Location</b> Mystic - 240 Oral School Road				<b>Start Date</b> 01/25/2013  <b>End Date</b> 01/25/2013	<b>Boring ID</b>  <b>SB-023</b>
<b>Drilling Contractor</b> Loureiro Engineering Associates, Inc. <b>Drilling Method</b> Direct Push <b>Sampling Method</b> Macro Core <b>Groundwater Observation</b> <b>Depth</b> at <b>Hours</b> <b>Depth</b> at <b>Hours</b>				<b>Logged by</b> Kara D'Onofrio <b>Drilling Foreman</b> Jeremy Corcoran <b>Drill Rig</b> Geoprobe 6610 <b>Surface Elevation</b> <b>Latitude</b> <b>Longitude</b>	
Depth	Sample Information			Soil Description Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structure, Density, Cohesiveness, Other	PID/FID ppm
	Sample No.	Recovery (%)	Blows /6"		
0.0-	1273805	58		Dark brown fine to very fine SAND, trace Silt, loose, very moist	0.5
0.5-	1273806	58		Brown fine to very fine SAND, little Silt, loose, very moist, little pulverized Rock	0.4
2.0				Bottom of Boring at 2'	





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<b>Project:</b> CTDECD Mystic 240 Oral School Rd-Ph II <b>Commission Number</b> 18HM301.002 <b>Client</b> Connecticut DECD <b>Location</b> Mystic - 240 Oral School Road				<b>Start Date</b> 01/25/2013  <b>End Date</b> 01/25/2013	<b>Boring ID</b> <b>SB-028</b>
<b>Drilling Contractor</b> Loureiro Engineering Associates, Inc. <b>Drilling Method</b> Direct Push <b>Sampling Method</b> Macro Core <b>Groundwater Observation</b> <b>Depth</b> at <b>Hours</b> <b>Depth</b> at <b>Hours</b>				<b>Logged by</b> Kara D'Onofrio <b>Drilling Foreman</b> Jeremy Corcoran <b>Drill Rig</b> Geoprobe 6610 <b>Surface Elevation</b> <b>Latitude</b> <b>Longitude</b>	
Depth	Sample Information			Soil Description Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structure, Density, Cohesiveness, Other	PID/FID ppm
	Sample No.	Recovery (%)	Blows /6"		
0-     	1273808	79		Top 2": Asphalt Brown fine SAND, little pulverized Rock, loose, moist	0.3
2-     	1273809	79		As Above	0.4
4-     5.5	1273810	67		Gray-brown fine SAND, some pulverized Rock, loose, moist  Refusal at 5.5' Bottom of Boring at 5.5'	0.2





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<b>Project:</b> CTDECD Mystic 240 Oral School Rd-Ph II <b>Commission Number</b> 18HM301.002 <b>Client</b> Connecticut DECD <b>Location</b> Mystic - 240 Oral School Road				<b>Start Date</b> 01/25/2013  <b>End Date</b> 01/25/2013	<b>Boring ID</b> <b>SB-029</b>
<b>Drilling Contractor</b> Loureiro Engineering Associates, Inc. <b>Drilling Method</b> Direct Push <b>Sampling Method</b> Macro Core <b>Groundwater Observation</b> <b>Depth</b> at <b>Hours</b> <b>Depth</b> at <b>Hours</b>				<b>Logged by</b> Kara D'Onofrio <b>Drilling Foreman</b> Jeremy Corcoran <b>Drill Rig</b> Geoprobe 6610 <b>Surface Elevation</b> <b>Latitude</b> <b>Longitude</b>	
Depth	Sample Information			Soil Description Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structure, Density, Cohesiveness, Other	PID/FID ppm
	Sample No.	Recovery (%)	Blows /6"		
0.0-       2.0	1273807	83		Brown fine to very fine SAND, trace Silt, little fine to medium Gravel, loose, moist  Refusal at 2' Bottom of Boring at 2'	0.2





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<b>Project:</b> CTDECD Mystic 240 Oral School Rd-Ph II				<b>Start Date</b> 01/28/2013	<b>Boring ID</b> <b>SB-032</b>
<b>Commission Number</b> 18HM301.002				<b>End Date</b> 01/28/2013	
<b>Client</b> Connecticut DECD					
<b>Location</b> Mystic - 240 Oral School Road					
<b>Drilling Contractor</b> Loureiro Engineering Associates, Inc.				<b>Logged by</b>	Keith Volkert
<b>Drilling Method</b> Direct Push				<b>Drilling Foreman</b>	Jeremy Corcoran
<b>Sampling Method</b> Macro Core				<b>Drill Rig</b>	Geoprobe 6610DT
<b>Groundwater Observation</b>				<b>Surface Elevation</b>	
<b>Depth</b>	<b>at</b>	<b>Hours</b>		<b>Latitude</b>	
<b>Depth</b>	<b>at</b>	<b>Hours</b>		<b>Longitude</b>	

Depth	Sample Information			Soil Description Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structure, Density, Cohesiveness, Other	PID/FID ppm
	Sample No.	Recovery (%)	Blows /6"		
0-     	1273843	50		Top 2": Asphalt Bottom 10": Brown fine to very fine SAND, trace fine to medium Gravel, trace Silt, loose, moist	0.0
2-     	1273844	50		Light brown fine to medium SAND, loose, moist  Geoprobe Refusal at 4.2', offset 3' west	0.0
4-     	1273851	57		Gray fine to very fine SAND, trace medium Sand, trace (+) fine to medium Gravel, loose, moist	0.0
6-     7.5	1273852	57		As Above  Geoprobe Refusal at 7.5'	0.0





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<b>Project:</b> CTDECD Mystic 240 Oral School Rd-Ph II <b>Commission Number</b> 18HM301.002 <b>Client</b> Connecticut DECD <b>Location</b> Mystic - 240 Oral School Road				<b>Start Date</b> 01/28/2013  <b>End Date</b> 01/28/2013	<b>Boring ID</b> <b>SB-033</b>
<b>Drilling Contractor</b> Loureiro Engineering Associates, Inc. <b>Drilling Method</b> Direct Push <b>Sampling Method</b> Macro Core <b>Groundwater Observation</b> <b>Depth</b> at <b>Hours</b> <b>Depth</b> at <b>Hours</b>				<b>Logged by</b> Keith Volkert <b>Drilling Foreman</b> Jeremy Corcoran <b>Drill Rig</b> Geoprobe 6610DT <b>Surface Elevation</b> <b>Latitude</b> <b>Longitude</b>	
Depth	Sample Information			Soil Description Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structure, Density, Cohesiveness, Other	PID/FID ppm
	Sample No.	Recovery (%)	Blows /6"		
0-     	1273839	58		Top 2": Asphalt Bottom 14": Orange brown fine to very fine SAND, trace Silt, trace fine Gravel, moderately dense, moist	0.0
2-     	1273840	58		Top 8": As Above (bottom 14") Bottom 8": Brown fine to very fine SAND, little fine to medium Gravel, loose, moist	0.0
4-     	1273841	83		As Above	0.0
6-   7	1273842	83		As Above  Geoprobe Refusal at 7'	0.0





# GEOLOGIC BORING LOG

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<b>Project:</b> CTDECD Mystic 240 Oral School Rd-Ph II <b>Commission Number</b> 18HM301.002 <b>Client</b> Connecticut DECD <b>Location</b> Mystic - 240 Oral School Road				<b>Start Date</b> 01/24/2013  <b>End Date</b> 01/24/2013	<b>Boring ID</b> <b>SB-034</b>
<b>Drilling Contractor</b> Loureiro Engineering Associates, Inc. <b>Drilling Method</b> Hand Auger <b>Sampling Method</b> Grab <b>Groundwater Observation</b> <b>Depth</b> at <b>Hours</b> <b>Depth</b> at <b>Hours</b>				<b>Logged by</b> Jeremy Marcantonio <b>Drilling Foreman</b> Sam Rooney <b>Drill Rig</b> Hand Auger <b>Surface Elevation</b> <b>Latitude</b> <b>Longitude</b>	
Depth	Sample Information			Soil Description Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structure, Density, Cohesiveness, Other	PID/FID ppm
	Sample No.	Recovery (%)	Blows /6"		
0-       2	1273765	100		Brown fine to very fine SAND, some medium Sand, some very fine to fine Gravel, loose, slightly moist  Bottom of Boring at 2'	0.5





# GEOLOGIC BORING LOG

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<b>Project:</b> CTDECD Mystic 240 Oral School Rd-Ph II <b>Commission Number</b> 18HM301.002 <b>Client</b> Connecticut DECD <b>Location</b> Mystic - 240 Oral School Road				<b>Start Date</b> 01/24/2013  <b>End Date</b> 01/24/2013	<b>Boring ID</b> <b>SB-035</b>
<b>Drilling Contractor</b> Loureiro Engineering Associates, Inc. <b>Drilling Method</b> Hand Auger <b>Sampling Method</b> Grab <b>Groundwater Observation</b> <b>Depth</b> at <b>Hours</b> <b>Depth</b> at <b>Hours</b>				<b>Logged by</b> Jeremy Marcantonio <b>Drilling Foreman</b> Sam Rooney <b>Drill Rig</b> Hand Auger <b>Surface Elevation</b> <b>Latitude</b> <b>Longitude</b>	
Depth	Sample Information			Soil Description Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structure, Density, Cohesiveness, Other	PID/FID ppm
	Sample No.	Recovery (%)	Blows /6"		
0-       2	1273766, 1273767	100		Brown fine to very fine SAND, some medium Sand, little very fine to fine Gravel, loose, slightly moist  Bottom of Boring at 2'	0.6





# GEOLOGIC BORING LOG

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<b>Project:</b> CTDECD Mystic 240 Oral School Rd-Ph II <b>Commission Number</b> 18HM301.002 <b>Client</b> Connecticut DECD <b>Location</b> Mystic - 240 Oral School Road				<b>Start Date</b> 01/29/2013  <b>End Date</b> 01/29/2013	<b>Boring ID</b> <b>SB-037</b>
<b>Drilling Contractor</b> Loureiro Engineering Associates, Inc. <b>Drilling Method</b> Hand Auger <b>Sampling Method</b> Grab <b>Groundwater Observation</b> <b>Depth</b> at <b>Hours</b> <b>Depth</b> at <b>Hours</b>				<b>Logged by</b> Keith Volkert <b>Drilling Foreman</b> Sam Rooney <b>Drill Rig</b> Hand Auger <b>Surface Elevation</b> <b>Latitude</b> <b>Longitude</b>	
Depth	Sample Information			Soil Description Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structure, Density, Cohesiveness, Other	PID/FID ppm
	Sample No.	Recovery (%)	Blows /6"		
0-       2	1273869	100		Top 6": Concrete Dark brown fine to medium SAND, trace coarse Sand, trace fine to medium Gravel, loose, moist  Bottom of Boring at 2'	0.0





# GEOLOGIC BORING LOG

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<b>Project:</b> CTDECD Mystic 240 Oral School Rd-Ph II <b>Commission Number</b> 18HM301.002 <b>Client</b> Connecticut DECD <b>Location</b> Mystic - 240 Oral School Road				<b>Start Date</b> 01/29/2013  <b>End Date</b> 01/29/2013	<b>Boring ID</b>  <b>SB-038</b>
<b>Drilling Contractor</b> Loureiro Engineering Associates, Inc. <b>Drilling Method</b> Hand Auger <b>Sampling Method</b> Grab <b>Groundwater Observation</b> <b>Depth</b> at <b>Hours</b> <b>Depth</b> at <b>Hours</b>				<b>Logged by</b> Keith Volkert <b>Drilling Foreman</b> Sam Rooney <b>Drill Rig</b> Hand Auger <b>Surface Elevation</b> <b>Latitude</b> <b>Longitude</b>	
Depth	Sample Information			Soil Description Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structure, Density, Cohesiveness, Other	PID/FID ppm
	Sample No.	Recovery (%)	Blows /6"		
0-       2	1273867, 1273868	100		Top 6": Concrete Brown fine to medium SAND, trace coarse Sand, trace fine to medium Gravel, loose, moist  Bottom of Boring at 2'	0.0





# GEOLOGIC BORING LOG

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<b>Project:</b> CTDECD Mystic 240 Oral School Rd-Ph II <b>LEA Commission Number</b> 18HM301.002 <b>Client</b> Connecticut DECD <b>Location</b> Mystic - 240 Oral School Road				<b>Start Date</b> 01/30/2013  <b>End Date</b> 01/30/2013	<b>Boring ID</b>  <b>SB-039</b>
<b>Drilling Contractor</b> Loureiro Engineering Associates, Inc. <b>Drilling Method</b> Hand Auger <b>Sampling Method</b> Grab <b>Groundwater Observation</b> <b>Depth</b> at <b>Hours</b> <b>Depth</b> at <b>Hours</b>				<b>Logged by</b> Keith Volkert <b>Drilling Foreman</b> Keith Volkert <b>Drill Rig</b> Hand Auger <b>Surface Elevation</b> <b>Latitude</b> <b>Longitude</b>	
Depth	Sample Information			Soil Description	PID/FID ppm
	Sample No.	Recovery (%)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structure, Density, Cohesiveness, Other	
0-       2	1273872, 1273871	100		Concrete 4" Brown very fine to medium SAND, trace(-) coarse Sand, trace fine Gravel, loose, moist  Bottom of Boring 2'	0.0





# GEOLOGIC BORING LOG

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<b>Project:</b> CTDECD Mystic 240 Oral School Rd-Ph II <b>Commission Number</b> 18HM301.002 <b>Client</b> Connecticut DECD <b>Location</b> Mystic - 240 Oral School Road				<b>Start Date</b> 01/25/2013  <b>End Date</b> 01/25/2013	<b>Boring ID</b> <b>SB-040</b>
<b>Drilling Contractor</b> Loureiro Engineering Associates, Inc. <b>Drilling Method</b> Direct Push <b>Sampling Method</b> Macro Core <b>Groundwater Observation</b> <b>Depth</b> at <b>Hours</b> <b>Depth</b> at <b>Hours</b>				<b>Logged by</b> Kara D'Onofrio <b>Drilling Foreman</b> Jeremy Corcoran <b>Drill Rig</b> Geoprobe 6610 <b>Surface Elevation</b> <b>Latitude</b> <b>Longitude</b>	
Depth	Sample Information			Soil Description Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structure, Density, Cohesiveness, Other	PID/FID ppm
	Sample No.	Recovery (%)	Blows /6"		
0.0-	1273811	88		Brown fine to medium SAND, little fine to medium Gravel, loose, moist	0.4
0.5-	1273812	88		Brown fine to medium SAND, little fine to medium Gravel, trace pulverized Rock, loose, very moist	0.4
2				Bottom of Boring at 2'	





# GEOLOGIC BORING LOG

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<b>Project:</b> CTDECD Mystic 240 Oral School Rd-Ph II <b>Commission Number</b> 18HM301.002 <b>Client</b> Connecticut DECD <b>Location</b> Mystic - 240 Oral School Road				<b>Start Date</b> 01/25/2013  <b>End Date</b> 01/25/2013	<b>Boring ID</b> <b>SB-041</b>
<b>Drilling Contractor</b> Loureiro Engineering Associates, Inc. <b>Drilling Method</b> Direct Push <b>Sampling Method</b> Macro Core <b>Groundwater Observation</b> <b>Depth</b> at <b>Hours</b> <b>Depth</b> at <b>Hours</b>				<b>Logged by</b> Kara D'Onofrio <b>Drilling Foreman</b> Jeremy Corcoran <b>Drill Rig</b> Geoprobe 6610 <b>Surface Elevation</b> <b>Latitude</b> <b>Longitude</b>	
Depth	Sample Information			Soil Description Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structure, Density, Cohesiveness, Other	PID/FID ppm
	Sample No.	Recovery (%)	Blows /6"		
0.0-	1273813	100		Brown fine to medium SAND, little fine to medium Gravel, loose, moist	0.5
0.5-	1273814	100		Brown very fine to medium SAND, little fine to medium Gravel, trace pulverized Rock, loose, very moist	0.1
2				Bottom of Boring at 2'	





# GEOLOGIC BORING LOG

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<b>Project:</b> CTDECD Mystic 240 Oral School Rd-Ph II <b>Commission Number</b> 18HM301.002 <b>Client</b> Connecticut DECD <b>Location</b> Mystic - 240 Oral School Road				<b>Start Date</b> 01/25/2013  <b>End Date</b> 01/25/2013	<b>Boring ID</b>  <b>SB-042</b>
<b>Drilling Contractor</b> Loureiro Engineering Associates, Inc. <b>Drilling Method</b> Direct Push <b>Sampling Method</b> Macro Core <b>Groundwater Observation</b> <b>Depth</b> at <b>Hours</b> <b>Depth</b> at <b>Hours</b>				<b>Logged by</b> Kara D'Onofrio <b>Drilling Foreman</b> Jeremy Corcoran <b>Drill Rig</b> Geoprobe 6610 <b>Surface Elevation</b> <b>Latitude</b> <b>Longitude</b>	
Depth	Sample Information			Soil Description Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structure, Density, Cohesiveness, Other	PID/FID ppm
	Sample No.	Recovery (%)	Blows /6"		
0-         2.5	1273828, 1273824	67		Brown fine to medium SAND, little fine to medium Gravel, loose, moist  Refusal at 2.5' Bottom of Boring at 2.5'	0.1





## GEOLOGIC BORING LOG

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<b>Project:</b> CTDECD Mystic 240 Oral School Rd-Ph II				<b>Start Date</b> 01/25/2013	<b>Boring ID</b> <b>SB-043</b>
<b>Commission Number</b> 18HM301.002				<b>End Date</b> 01/25/2013	
<b>Client</b> Connecticut DECD					
<b>Location</b> Mystic - 240 Oral School Road					
<b>Drilling Contractor</b> Loureiro Engineering Associates, Inc.				<b>Logged by</b>	Kara D'Onofrio
<b>Drilling Method</b> Direct Push				<b>Drilling Foreman</b>	Jeremy Corcoran
<b>Sampling Method</b> Macro Core				<b>Drill Rig</b>	Geoprobe 6610
<b>Groundwater Observation</b>				<b>Surface Elevation</b>	
<b>Depth</b> 6.00	<b>at</b>	<b>Hours</b>		<b>Latitude</b>	
<b>Depth</b>	<b>at</b>	<b>Hours</b>		<b>Longitude</b>	

Depth	Sample Information			Soil Description Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structure, Density, Cohesiveness, Other	PID/FID ppm
	Sample No.	Recovery (%)	Blows /6"		
0-     	1273816, 1273815	88		Brown very fine to medium SAND, little fine to medium Gravel, loose, moist	0.2
2-     	1273817	88		As Above, little pulverized Rock	0.1
4-     	1273818	63		As Above, very moist	0.3
6- V     	1273819	63		Brown very fine to fine SAND, little fine to medium Gravel, loose, wet	0.3
8-     	1273820	71		As Above	0.2
10-     	1273821	71		Red brown fine to medium SAND, trace fine to medium Gravel, loose, wet	0.0
12-     	1273822	63		Brown fine SAND, little fine to medium Gravel, loose, wet	0.1
14-       16	1273823	63		As Above, some Asphalt  Bottom of Boring at 16'	0.1





# GEOLOGIC BORING LOG

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<b>Project:</b> CTDECD Mystic 240 Oral School Rd-Ph II <b>LEA Commission Number</b> 18HM301.002 <b>Client</b> Connecticut DECD <b>Location</b> Mystic - 240 Oral School Road				<b>Start Date</b> 01/24/2013  <b>End Date</b> 01/24/2013	<b>Boring ID</b>  <b>SB-044</b>
<b>Drilling Contractor</b> Loureiro Engineering Associates, Inc. <b>Drilling Method</b> Direct Push <b>Sampling Method</b> Macro Core <b>Groundwater Observation</b> <b>Depth</b> 10.00 <b>at</b> <b>Hours</b> <b>Depth</b> <b>at</b> <b>Hours</b>				<b>Logged by</b> Keith Volkert <b>Drilling Foreman</b> Jeremy Corcoran <b>Drill Rig</b> Geoprobe 97 <b>Surface Elevation</b> <b>Latitude</b> <b>Longitude</b>	
Depth	Sample Information			Soil Description Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structure, Density, Cohesiveness, Other	PID/FID ppm
	Sample No.	Recovery (%)	Blows /6"		
0-     	1273794	79		Top 2": Asphalt Bottom 17": Dark brown fine to very fine SAND, trace Silt, loose, moist	0.0
2-     	1273795	79		Gray fine to very fine SAND, trace Silt, trace fine Gravel, loose, moist	0.0
4-     	1273796	75		As Above	0.0
6-     	1273797	75		As Above	0.0
8-     	1273798	63		As Above	0.0
10- V       12	1273799	63		Brown fine to very fine SAND, little Silt, trace (+) fine to medium Gravel, loose, wet  Geoprobe Refusal at 12'	0.0





# GEOLOGIC BORING LOG

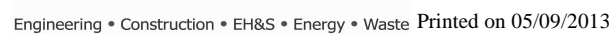
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<b>Project:</b> CTDECD Mystic 240 Oral School Rd-Ph II <b>Commission Number</b> 18HM301.002 <b>Client</b> Connecticut DECD <b>Location</b> Mystic - 240 Oral School Road				<b>Start Date</b> 01/28/2013  <b>End Date</b> 01/28/2013	<b>Boring ID</b> <b>SB-045</b>
<b>Drilling Contractor</b> Loureiro Engineering Associates, Inc. <b>Drilling Method</b> Hand Auger <b>Sampling Method</b> Grab <b>Groundwater Observation</b> <b>Depth</b> at <b>Hours</b> <b>Depth</b> at <b>Hours</b>				<b>Logged by</b> Jeremy Marcantonio <b>Drilling Foreman</b> Sam Rooney <b>Drill Rig</b> Hand Auger <b>Surface Elevation</b> <b>Latitude</b> <b>Longitude</b>	
Depth	Sample Information			Soil Description Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structure, Density, Cohesiveness, Other	PID/FID ppm
	Sample No.	Recovery (%)	Blows /6"		
0-       2	1273858, 1273860	100		Top 6": Concrete Light brown fine to very fine SAND, little medium Sand, trace very fine to fine Gravel, loose, slightly moist  Bottom of Boring at 2'	0.6





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**SB-048**



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<b>Project:</b> CTDECD Mystic 240 Oral School Rd-Ph II				<b>Start Date</b> 01/25/2013	<b>Boring ID</b> <b>SB-049</b>
<b>Commission Number</b> 18HM301.002				<b>End Date</b> 01/25/2013	
<b>Client</b> Connecticut DECD					
<b>Location</b> Mystic - 240 Oral School Road					
<b>Drilling Contractor</b> Loureiro Engineering Associates, Inc.				<b>Logged by</b>	Jeremy Marcantonio
<b>Drilling Method</b> Hand Auger				<b>Drilling Foreman</b>	Sam Rooney
<b>Sampling Method</b> Grab				<b>Drill Rig</b>	Hand Auger
<b>Groundwater Observation</b>				<b>Surface Elevation</b>	
<b>Depth</b> at <b>Hours</b>				<b>Latitude</b>	
<b>Depth</b> at <b>Hours</b>				<b>Longitude</b>	
Depth	Sample Information			Soil Description	PID/FID ppm
	Sample No.	Recovery (%)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structure, Density, Cohesiveness, Other	
0-       2	1273826	100		Top 11": Concrete Greyish brown fine to very fine SAND, some medium Sand, some very fine to fine Gravel, loose, slightly moist  Bottom of Boring at 2'	0.6





# GEOLOGIC BORING LOG

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<b>Project:</b> CTDECD Mystic 240 Oral School Rd-Ph II <b>Commission Number</b> 18HM301.002 <b>Client</b> Connecticut DECD <b>Location</b> Mystic - 240 Oral School Road				<b>Start Date</b> 01/25/2013  <b>End Date</b> 01/25/2013	<b>Boring ID</b> <b>SB-050</b>
<b>Drilling Contractor</b> Loureiro Engineering Associates, Inc. <b>Drilling Method</b> Hand Auger <b>Sampling Method</b> Grab <b>Groundwater Observation</b> <b>Depth</b> at <b>Hours</b> <b>Depth</b> at <b>Hours</b>				<b>Logged by</b> Jeremy Marcantonio <b>Drilling Foreman</b> Sam Rooney <b>Drill Rig</b> Hand Auger <b>Surface Elevation</b> <b>Latitude</b> <b>Longitude</b>	
Depth	Sample Information			Soil Description Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structure, Density, Cohesiveness, Other	PID/FID ppm
	Sample No.	Recovery (%)	Blows /6"		
0-       2	1273827	100		Top 12": Concrete Brown fine to very fine SAND, some medium Sand, little fine to very fine Gravel, loose, slightly moist  Bottom of Boring at 2'	0.5





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<b>Project:</b> CTDECD Mystic 240 Oral School Rd-Ph II				<b>Start Date</b> 01/28/2013	<b>Boring ID</b> <b>SB-051</b>
<b>Commission Number</b> 18HM301.002				<b>End Date</b> 01/28/2013	
<b>Client</b> Connecticut DECD					
<b>Location</b> Mystic - 240 Oral School Road					
<b>Drilling Contractor</b> Loureiro Engineering Associates, Inc.				<b>Logged by</b>	Jeremy Marcantonio
<b>Drilling Method</b> Hand Auger				<b>Drilling Foreman</b>	Sam Rooney
<b>Sampling Method</b> Grab				<b>Drill Rig</b>	Hand Auger
<b>Groundwater Observation</b>				<b>Surface Elevation</b>	
<b>Depth</b> at <b>Hours</b>				<b>Latitude</b>	
<b>Depth</b> at <b>Hours</b>				<b>Longitude</b>	
Depth	Sample Information			Soil Description	PID/FID ppm
	Sample No.	Recovery (%)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structure, Density, Cohesiveness, Other	
0-       2	1273859	100		Top 7": Concrete Brown fine to very fine SAND, some medium Sand, little very fine to fine Gravel, loose, slightly moist  Bottom of Boring at 2'	0.4





# GEOLOGIC BORING LOG

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<b>Project:</b> CTDECD Mystic 240 Oral School Rd-Ph II <b>Commission Number</b> 18HM301.002 <b>Client</b> Connecticut DECD <b>Location</b> Mystic - 240 Oral School Road				<b>Start Date</b> 01/28/2013  <b>End Date</b> 01/28/2013	<b>Boring ID</b>  <b>SB-052</b>
<b>Drilling Contractor</b> Loureiro Engineering Associates, Inc. <b>Drilling Method</b> Hand Auger <b>Sampling Method</b> Grab <b>Groundwater Observation</b> <b>Depth</b> at <b>Hours</b> <b>Depth</b> at <b>Hours</b>				<b>Logged by</b> Jeremy Marcantonio <b>Drilling Foreman</b> Sam Rooney <b>Drill Rig</b> Hand Auger <b>Surface Elevation</b> <b>Latitude</b> <b>Longitude</b>	
Depth	Sample Information			Soil Description Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structure, Density, Cohesiveness, Other	PID/FID ppm
	Sample No.	Recovery (%)	Blows /6"		
0-       2	1273857	100		Top 9": Concrete Brown fine to very fine SAND, little medium Sand, little fine to very fine Gravel, loose, slightly moist  Bottom of Boring at 2'	0.5





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<b>Project:</b> CTDECD Mystic 240 Oral School Rd-Ph II				<b>Start Date</b> 01/28/2013	<b>Boring ID</b> <b>SB-053</b>
<b>Commission Number</b> 18HM301.002				<b>End Date</b> 01/28/2013	
<b>Client</b> Connecticut DECD					
<b>Location</b> Mystic - 240 Oral School Road					
<b>Drilling Contractor</b> Loureiro Engineering Associates, Inc.				<b>Logged by</b>	Jeremy Marcantonio
<b>Drilling Method</b> Hand Auger				<b>Drilling Foreman</b>	Sam Rooney
<b>Sampling Method</b> Grab				<b>Drill Rig</b>	Hand Auger
<b>Groundwater Observation</b>				<b>Surface Elevation</b>	
<b>Depth</b> at <b>Hours</b>				<b>Latitude</b>	
<b>Depth</b> at <b>Hours</b>				<b>Longitude</b>	
Depth	Sample Information			Soil Description	PID/FID ppm
	Sample No.	Recovery (%)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structure, Density, Cohesiveness, Other	
0-       2	1273856	100		Top 8": Concrete Brown and light brown fine to very fine SAND, some medium Sand, little very fine to fine Gravel, loose, slightly moist  Bottom of Boring at 2'	0.7





# GEOLOGIC BORING LOG

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<b>Project:</b> CTDECD Mystic 240 Oral School Rd-Ph II <b>LEA Commission Number</b> 18HM301.002 <b>Client</b> Connecticut DECD <b>Location</b> Mystic - 240 Oral School Road				<b>Start Date</b> 01/30/2013  <b>End Date</b> 01/30/2013	<b>Boring ID</b>  <b>SB-054</b>
<b>Drilling Contractor</b> Loureiro Engineering Associates, Inc. <b>Drilling Method</b> Hand Auger <b>Sampling Method</b> Grab <b>Groundwater Observation</b> <b>Depth</b> at <b>Hours</b> <b>Depth</b> at <b>Hours</b>				<b>Logged by</b> Keith Volkert <b>Drilling Foreman</b> Keith Volkert <b>Drill Rig</b> Hand Auger <b>Surface Elevation</b> <b>Latitude</b> <b>Longitude</b>	
Depth	Sample Information			Soil Description Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structure, Density, Cohesiveness, Other	PID/FID ppm
	Sample No.	Recovery (%)	Blows /6"		
0-       2	1273873	100		Concrete 3" Gray brown fine to medium SAND and fine to medium Gravel, loose, moist  Bottom of Boring 2'	0.0





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**GEOLOGIC BORING LOG**

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<b>Project:</b> CTDECD Mystic 240 Oral School Rd-Ph II				<b>Start Date</b> 01/29/2013	<b>Boring ID</b> <b>SB-056</b>
<b>Commission Number</b> 18HM301.002				<b>End Date</b> 01/29/2013	
<b>Client</b> Connecticut DECD					
<b>Location</b> Mystic - 240 Oral School Road					
<b>Drilling Contractor</b> Loureiro Engineering Associates, Inc.				<b>Logged by</b> Keith Volkert	
<b>Drilling Method</b> Hand Auger				<b>Drilling Foreman</b> Sam Rooney	
<b>Sampling Method</b> Grab				<b>Drill Rig</b> Hand Auger	
<b>Groundwater Observation</b>				<b>Surface Elevation</b>	
<b>Depth</b> at <b>Hours</b>				<b>Latitude</b>	
<b>Depth</b> at <b>Hours</b>				<b>Longitude</b>	
Depth	Sample Information			Soil Description	PID/FID ppm
	Sample No.	Recovery (%)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structure, Density, Cohesiveness, Other	
0-       2	1273862	100		Top 6": Concrete, Plastic liner under Concrete Brown fine to very fine SAND, trace medium Sand, trace (+) fine to medium Gravel, loose, moist  Bottom of Boring at 2'	0.0





# GEOLOGIC BORING LOG

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<b>Project:</b> CTDECD Mystic 240 Oral School Rd-Ph II <b>Commission Number</b> 18HM301.002 <b>Client</b> Connecticut DECD <b>Location</b> Mystic - 240 Oral School Road				<b>Start Date</b> 01/29/2013  <b>End Date</b> 01/29/2013	<b>Boring ID</b> <b>SB-058</b>
<b>Drilling Contractor</b> Loureiro Engineering Associates, Inc. <b>Drilling Method</b> Hand Auger <b>Sampling Method</b> Grab <b>Groundwater Observation</b> <b>Depth</b> at <b>Hours</b> <b>Depth</b> at <b>Hours</b>				<b>Logged by</b> Keith Volkert <b>Drilling Foreman</b> Sam Rooney <b>Drill Rig</b> Hand Auger <b>Surface Elevation</b> <b>Latitude</b> <b>Longitude</b>	
Depth	Sample Information			Soil Description Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structure, Density, Cohesiveness, Other	PID/FID ppm
	Sample No.	Recovery (%)	Blows /6"		
0-       2	1273870	100		Dark brown fine to very fine SAND, little fine Gravel, trace (-) Silt, loose, moist  Bottom of Boring at 2'	0.0





**GEOLOGIC BORING LOG**

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<b>Project:</b> CTDECD Mystic 240 Oral School Rd-Ph II				<b>Start Date</b> 01/28/2013	<b>Boring ID</b> <b>SB-059</b>
<b>Commission Number</b> 18HM301.002				<b>End Date</b> 01/28/2013	
<b>Client</b> Connecticut DECD					
<b>Location</b> Mystic - 240 Oral School Road					
<b>Drilling Contractor</b> Loureiro Engineering Associates, Inc.				<b>Logged by</b>	Jeremy Marcantonio
<b>Drilling Method</b> Hand Auger				<b>Drilling Foreman</b>	Sam Rooney
<b>Sampling Method</b> Grab				<b>Drill Rig</b>	Hand Auger
<b>Groundwater Observation</b>				<b>Surface Elevation</b>	
<b>Depth</b> at <b>Hours</b>				<b>Latitude</b>	
<b>Depth</b> at <b>Hours</b>				<b>Longitude</b>	
Depth	Sample Information			Soil Description	PID/FID ppm
	Sample No.	Recovery (%)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structure, Density, Cohesiveness, Other	
0-       2	1273854, 1273855	100		Top 8": Concrete Light brown fine to very fine SAND, little medium Sand, some fine to very fine Gravel, loose, slightly moist  Bottom of Boring at 2'	0.4





# GEOLOGIC BORING LOG

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<b>Project:</b> CTDECD Mystic 240 Oral School Rd-Ph II <b>Commission Number</b> 18HM301.002 <b>Client</b> Connecticut DECD <b>Location</b> Mystic - 240 Oral School Road				<b>Start Date</b> 01/28/2013  <b>End Date</b> 01/28/2013	<b>Boring ID</b> <b>SB-061</b>
<b>Drilling Contractor</b> Loureiro Engineering Associates, Inc. <b>Drilling Method</b> Hand Auger <b>Sampling Method</b> Grab <b>Groundwater Observation</b> <b>Depth</b> at <b>Hours</b> <b>Depth</b> at <b>Hours</b>				<b>Logged by</b> Jeremy Marcantonio <b>Drilling Foreman</b> Sam Rooney <b>Drill Rig</b> Hand Auger <b>Surface Elevation</b> <b>Latitude</b> <b>Longitude</b>	
Depth	Sample Information			Soil Description Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structure, Density, Cohesiveness, Other	PID/FID ppm
	Sample No.	Recovery (%)	Blows /6"		
0-     1.8	1273853	100		Top 6": Concrete Light brown fine to very fine SAND, little medium Sand, trace very fine to medium Gravel, loose, slightly moist  Hand Auger Refusal at 1.8' Bottom of Boring at 1.8'	0.6





# GEOLOGIC BORING LOG

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<b>Project:</b> CTDECD Mystic 240 Oral School Rd-Ph II <b>Commission Number</b> 18HM301.002 <b>Client</b> Connecticut DECD <b>Location</b> Mystic - 240 Oral School Road				<b>Start Date</b> 01/28/2013  <b>End Date</b> 01/28/2013	<b>Boring ID</b> <b>SB-062</b>
<b>Drilling Contractor</b> Loureiro Engineering Associates, Inc. <b>Drilling Method</b> Direct Push <b>Sampling Method</b> Macro Core <b>Groundwater Observation</b> <b>Depth</b> at <b>Hours</b> <b>Depth</b> at <b>Hours</b>				<b>Logged by</b> Keith Volkert <b>Drilling Foreman</b> Jeremy Corcoran <b>Drill Rig</b> Geoprobe 6610DT <b>Surface Elevation</b> <b>Latitude</b> <b>Longitude</b>	
Depth	Sample Information			Soil Description Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structure, Density, Cohesiveness, Other	PID/FID ppm
	Sample No.	Recovery (%)	Blows /6"		
0-     	1273845	56		Top 2": Asphalt Bottom 11": Brown fine to very fine SAND, trace (+) fine to medium Gravel, trace (-) Silt, loose, moist	0.0
2-     	1273846	56		As Above (bottom 11")	0.0
4-     	1273847	79		Light gray brown fine to very fine SAND, trace fine Gravel, trace (-) Silt, loose, moist	0.0
6-     	1273848	79		As Above	0.0
8-     	1273849	58		As Above, moderately dense	0.0
10-         12	1273850	58		Gray fine to very fine SAND, little fine to medium Gravel, moderately dense, moist  Geoprobe Refusal at 12'	0.0





# GEOLOGIC BORING LOG

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<b>Project:</b> CTDECD Mystic 240 Oral School Rd-Ph II <b>Commission Number</b> 18HM301.002 <b>Client</b> Connecticut DECD <b>Location</b> Mystic - 240 Oral School Road				<b>Start Date</b> 01/28/2013  <b>End Date</b> 01/28/2013	<b>Boring ID</b> <b>SB-063</b>
<b>Drilling Contractor</b> Loureiro Engineering Associates, Inc. <b>Drilling Method</b> Direct Push <b>Sampling Method</b> Macro Core <b>Groundwater Observation</b> <b>Depth</b> at <b>Hours</b> <b>Depth</b> at <b>Hours</b>				<b>Logged by</b> Keith Volkert <b>Drilling Foreman</b> Jeremy Corcoran <b>Drill Rig</b> Geoprobe 6610DT <b>Surface Elevation</b> <b>Latitude</b> <b>Longitude</b>	
Depth	Sample Information			Soil Description Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structure, Density, Cohesiveness, Other	PID/FID ppm
	Sample No.	Recovery (%)	Blows /6"		
0-     	1273835	48		Brown fine to very fine SAND, trace Silt, trace Organic Material, loose, moist	0.0
2-     	1273836	48		Brown fine to very fine SAND, trace Silt, trace (+) fine to medium Gravel, loose, moist	0.0
4-     	1273837	54		As Above, pieces of Coal throughout	0.0
6-     	1273838	54		As Above, pieces of Coal throughout	0.0
8-   9		33		Pulverized Rock, no Sample  Geoprobe Refusal at 9'	0.0





# GEOLOGIC BORING LOG

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<b>Project:</b> CTDECD Mystic 240 Oral School Rd-Ph II <b>Commission Number</b> 18HM301.002 <b>Client</b> Connecticut DECD <b>Location</b> Mystic - 240 Oral School Road				<b>Start Date</b> 01/24/2013  <b>End Date</b> 01/24/2013	<b>Boring ID</b> <b>SS-01</b>
<b>Drilling Contractor</b> Loureiro Engineering Associates, Inc. <b>Drilling Method</b> Hand Auger <b>Sampling Method</b> Grab <b>Groundwater Observation</b> <b>Depth</b> at <b>Hours</b> <b>Depth</b> at <b>Hours</b>				<b>Logged by</b> Jeremy Marcantonio <b>Drilling Foreman</b> Sam Rooney <b>Drill Rig</b> Hand Auger <b>Surface Elevation</b> <b>Latitude</b> <b>Longitude</b>	
Depth	Sample Information			Soil Description Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structure, Density, Cohesiveness, Other	PID/FID ppm
	Sample No.	Recovery (%)	Blows /6"		
0-0.5	1273761	100		Brown fine to very fine SAND, trace medium Sand, little very fine Gravel, loose, slightly moist  Bottom of Boring at 0.5'	0.1





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<b>Project:</b> CTDECD Mystic 240 Oral School Rd-Ph II				<b>Start Date</b> 01/24/2013	<b>Boring ID</b> <b>SS-02</b>
<b>Commission Number</b> 18HM301.002				<b>End Date</b> 01/24/2013	
<b>Client</b> Connecticut DECD					
<b>Location</b> Mystic - 240 Oral School Road					
<b>Drilling Contractor</b> Loureiro Engineering Associates, Inc.				<b>Logged by</b>	Jeremy Marcantonio
<b>Drilling Method</b> Hand Auger				<b>Drilling Foreman</b>	Sam Rooney
<b>Sampling Method</b> Grab				<b>Drill Rig</b>	Hand Auger
<b>Groundwater Observation</b>				<b>Surface Elevation</b>	
<b>Depth</b> at <b>Hours</b>				<b>Latitude</b>	
<b>Depth</b> at <b>Hours</b>				<b>Longitude</b>	
Depth	Sample Information			Soil Description	PID/FID ppm
	Sample No.	Recovery (%)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structure, Density, Cohesiveness, Other	
0- 0.5	1273762	100		Brown fine to very fine SAND, trace medium Sand, trace very fine Gravel, loose, slightly moist  Bottom of Boring at 0.5'	0.2





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<b>Project:</b> CTDECD Mystic 240 Oral School Rd-Ph II <b>Commission Number</b> 18HM301.002 <b>Client</b> Connecticut DECD <b>Location</b> Mystic - 240 Oral School Road				<b>Start Date</b> 01/24/2013  <b>End Date</b> 01/24/2013	<b>Boring ID</b>  <b>SS-03</b>
<b>Drilling Contractor</b> Loureiro Engineering Associates, Inc. <b>Drilling Method</b> Hand Auger <b>Sampling Method</b> Grab <b>Groundwater Observation</b> <b>Depth</b> at <b>Hours</b> <b>Depth</b> at <b>Hours</b>				<b>Logged by</b> Jeremy Marcantonio <b>Drilling Foreman</b> Sam Rooney <b>Drill Rig</b> Hand Auger <b>Surface Elevation</b> <b>Latitude</b> <b>Longitude</b>	
Depth	Sample Information			Soil Description Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structure, Density, Cohesiveness, Other	PID/FID ppm
	Sample No.	Recovery (%)	Blows /6"		
0-0.5	1273763	100		Brown fine to very fine SAND, some medium Sand, trace very fine Gravel, loose, slightly moist  Bottom of Boring at 0.5'	0.1





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<b>Project:</b> CTDECD Mystic 240 Oral School Rd-Ph II <b>Commission Number</b> 18HM301.002 <b>Client</b> Connecticut DECD <b>Location</b> Mystic - 240 Oral School Road				<b>Start Date</b> 01/24/2013  <b>End Date</b> 01/24/2013	<b>Boring ID</b> <b>SS-07</b>
<b>Drilling Contractor</b> Loureiro Engineering Associates, Inc. <b>Drilling Method</b> Hand Auger <b>Sampling Method</b> Grab <b>Groundwater Observation</b> <b>Depth</b> at <b>Hours</b> <b>Depth</b> at <b>Hours</b>				<b>Logged by</b> Jeremy Marcantonio <b>Drilling Foreman</b> Sam Rooney <b>Drill Rig</b> Hand Auger <b>Surface Elevation</b> <b>Latitude</b> <b>Longitude</b>	
Depth	Sample Information			Soil Description Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structure, Density, Cohesiveness, Other	PID/FID ppm
	Sample No.	Recovery (%)	Blows /6"		
0-0.5	1273741	100		Brown fine to very fine SAND, little medium Sand, trace very fine Gravel, loose, slightly moist  Bottom of Boring at 0.5'	0.0





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<b>Project:</b> CTDECD Mystic 240 Oral School Rd-Ph II <b>Commission Number</b> 18HM301.002 <b>Client</b> Connecticut DECD <b>Location</b> Mystic - 240 Oral School Road				<b>Start Date</b> 01/24/2013  <b>End Date</b> 01/24/2013	<b>Boring ID</b> <b>SS-08</b>
<b>Drilling Contractor</b> Loureiro Engineering Associates, Inc. <b>Drilling Method</b> Hand Auger <b>Sampling Method</b> Grab <b>Groundwater Observation</b> <b>Depth</b> at <b>Hours</b> <b>Depth</b> at <b>Hours</b>				<b>Logged by</b> Jeremy Marcantonio <b>Drilling Foreman</b> Sam Rooney <b>Drill Rig</b> Hand Auger <b>Surface Elevation</b> <b>Latitude</b> <b>Longitude</b>	
Depth	Sample Information			Soil Description Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structure, Density, Cohesiveness, Other	PID/FID ppm
	Sample No.	Recovery (%)	Blows /6"		
0-0.5	1273742	100		Brown fine to very fine SAND, little medium Sand, trace very fine Gravel, loose, slightly moist  Bottom of Boring at 0.5'	0.0





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<b>Project:</b> CTDECD Mystic 240 Oral School Rd-Ph II <b>Commission Number</b> 18HM301.002 <b>Client</b> Connecticut DECD <b>Location</b> Mystic - 240 Oral School Road				<b>Start Date</b> 01/24/2013  <b>End Date</b> 01/24/2013	<b>Boring ID</b> <b>SS-09</b>
<b>Drilling Contractor</b> Loureiro Engineering Associates, Inc. <b>Drilling Method</b> Hand Auger <b>Sampling Method</b> Grab <b>Groundwater Observation</b> <b>Depth</b> at <b>Hours</b> <b>Depth</b> at <b>Hours</b>				<b>Logged by</b> Jeremy Marcantonio <b>Drilling Foreman</b> Sam Rooney <b>Drill Rig</b> Hand Auger <b>Surface Elevation</b> <b>Latitude</b> <b>Longitude</b>	
Depth	Sample Information			Soil Description Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structure, Density, Cohesiveness, Other	PID/FID ppm
	Sample No.	Recovery (%)	Blows /6"		
0-0.5	1273743	100		Brown fine to very fine SAND, little medium Sand, trace very fine Gravel, loose, slightly moist  Bottom of Boring at 0.5'	0.0





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<b>Project:</b> CTDECD Mystic 240 Oral School Rd-Ph II				<b>Start Date</b> 01/24/2013	<b>Boring ID</b> <b>SS-13</b>
<b>Commission Number</b> 18HM301.002				<b>End Date</b> 01/24/2013	
<b>Client</b> Connecticut DECD					
<b>Location</b> Mystic - 240 Oral School Road					
<b>Drilling Contractor</b> Loureiro Engineering Associates, Inc.				<b>Logged by</b>	Jeremy Marcantonio
<b>Drilling Method</b> Hand Auger				<b>Drilling Foreman</b>	Sam Rooney
<b>Sampling Method</b> Grab				<b>Drill Rig</b>	Hand Auger
<b>Groundwater Observation</b>				<b>Surface Elevation</b>	
<b>Depth</b> at <b>Hours</b>				<b>Latitude</b>	
<b>Depth</b> at <b>Hours</b>				<b>Longitude</b>	
Depth	Sample Information			Soil Description	PID/FID ppm
	Sample No.	Recovery (%)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structure, Density, Cohesiveness, Other	
0- 0.5	1273764	100		Brown fine to very fine SAND, some medium Sand, trace very fine to fine Gravel, loose, slightly moist  Bottom of Boring at 0.5'	0.3





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<b>Project:</b> CTDECD Mystic 240 Oral School Rd-Ph II				<b>Start Date</b> 01/24/2013	<b>Boring ID</b> <b>SS-14</b>
<b>Commission Number</b> 18HM301.002				<b>End Date</b> 01/24/2013	
<b>Client</b> Connecticut DECD					
<b>Location</b> Mystic - 240 Oral School Road					
<b>Drilling Contractor</b> Loureiro Engineering Associates, Inc.				<b>Logged by</b>	Jeremy Marcantonio
<b>Drilling Method</b> Hand Auger				<b>Drilling Foreman</b>	Sam Rooney
<b>Sampling Method</b> Grab				<b>Drill Rig</b>	Hand Auger
<b>Groundwater Observation</b>				<b>Surface Elevation</b>	
<b>Depth</b> at <b>Hours</b>				<b>Latitude</b>	
<b>Depth</b> at <b>Hours</b>				<b>Longitude</b>	
Depth	Sample Information			Soil Description	PID/FID ppm
	Sample No.	Recovery (%)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structure, Density, Cohesiveness, Other	
0- 0.5	1273784	100		Brown fine to very fine SAND, trace medium Sand, little very fine Gravel, loose, slightly moist  Bottom of Boring at 0.5'	0.3





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<b>Project:</b> CTDECD Mystic 240 Oral School Rd-Ph II				<b>Start Date</b> 01/24/2013	<b>Boring ID</b> <b>SS-15</b>
<b>Commission Number</b> 18HM301.002				<b>End Date</b> 01/24/2013	
<b>Client</b> Connecticut DECD					
<b>Location</b> Mystic - 240 Oral School Road					
<b>Drilling Contractor</b> Loureiro Engineering Associates, Inc.				<b>Logged by</b>	Jeremy Marcantonio
<b>Drilling Method</b> Hand Auger				<b>Drilling Foreman</b>	Sam Rooney
<b>Sampling Method</b> Grab				<b>Drill Rig</b>	Hand Auger
<b>Groundwater Observation</b>				<b>Surface Elevation</b>	
<b>Depth</b> at <b>Hours</b>				<b>Latitude</b>	
<b>Depth</b> at <b>Hours</b>				<b>Longitude</b>	
Depth	Sample Information			Soil Description	PID/FID ppm
	Sample No.	Recovery (%)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structure, Density, Cohesiveness, Other	
0-0.5	1273785	100		Brown fine to very fine SAND, little medium Sand, trace very fine Gravel, loose, slightly moist  Bottom of Boring at 0.5'	0.4





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<b>Project:</b> CTDECD Mystic 240 Oral School Rd-Ph II <b>Commission Number</b> 18HM301.002 <b>Client</b> Connecticut DECD <b>Location</b> Mystic - 240 Oral School Road				<b>Start Date</b> 01/24/2013  <b>End Date</b> 01/24/2013	<b>Boring ID</b>  <b>SS-16</b>
<b>Drilling Contractor</b> Loureiro Engineering Associates, Inc. <b>Drilling Method</b> Hand Auger <b>Sampling Method</b> Grab <b>Groundwater Observation</b> <b>Depth</b> at <b>Hours</b> <b>Depth</b> at <b>Hours</b>				<b>Logged by</b> Jeremy Marcantonio <b>Drilling Foreman</b> Sam Rooney <b>Drill Rig</b> Hand Auger <b>Surface Elevation</b> <b>Latitude</b> <b>Longitude</b>	
Depth	Sample Information			Soil Description Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structure, Density, Cohesiveness, Other	PID/FID ppm
	Sample No.	Recovery (%)	Blows /6"		
0-0.5	1273786	100		Brown fine to very fine SAND, trace medium Sand, trace very fine Gravel, loose, slightly moist  Bottom of Boring at 0.5'	0.2





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<b>Project:</b> CTDECD Mystic 240 Oral School Rd-Ph II <b>Commission Number</b> 18HM301.002 <b>Client</b> Connecticut DECD <b>Location</b> Mystic - 240 Oral School Road				<b>Start Date</b> 01/24/2013  <b>End Date</b> 01/24/2013	<b>Boring ID</b> <b>SS-17</b>
<b>Drilling Contractor</b> Loureiro Engineering Associates, Inc. <b>Drilling Method</b> Hand Auger <b>Sampling Method</b> Grab <b>Groundwater Observation</b> <b>Depth</b> at <b>Hours</b> <b>Depth</b> at <b>Hours</b>				<b>Logged by</b> Jeremy Marcantonio <b>Drilling Foreman</b> Sam Rooney <b>Drill Rig</b> Hand Auger <b>Surface Elevation</b> <b>Latitude</b> <b>Longitude</b>	
Depth	Sample Information			Soil Description Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structure, Density, Cohesiveness, Other	PID/FID ppm
	Sample No.	Recovery (%)	Blows /6"		
0-0.5	1273787	100		Brown fine to very fine SAND, trace medium Sand, some fine to very fine Gravel, loose, slightly moist  Bottom of Boring at 0.5'	0.6





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<b>Project:</b> CTDECD Mystic 240 Oral School Rd-Ph II <b>Commission Number</b> 18HM301.002 <b>Client</b> Connecticut DECD <b>Location</b> Mystic - 240 Oral School Road				<b>Start Date</b> 01/24/2013  <b>End Date</b> 01/24/2013	<b>Boring ID</b>  <b>SS-18</b>
<b>Drilling Contractor</b> Loureiro Engineering Associates, Inc. <b>Drilling Method</b> Hand Auger <b>Sampling Method</b> Grab <b>Groundwater Observation</b> <b>Depth</b> at <b>Hours</b> <b>Depth</b> at <b>Hours</b>				<b>Logged by</b> Jeremy Marcantonio <b>Drilling Foreman</b> Sam Rooney <b>Drill Rig</b> Hand Auger <b>Surface Elevation</b> <b>Latitude</b> <b>Longitude</b>	
Depth	Sample Information			Soil Description Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structure, Density, Cohesiveness, Other	PID/FID ppm
	Sample No.	Recovery (%)	Blows /6"		
0-0.5	1273788	100		Brown fine to very fine SAND, trace medium Sand, trace very fine to fine Gravel, loose, slightly moist  Bottom of Boring at 0.5'	0.5





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<b>Project:</b> CTDECD Mystic 240 Oral School Rd-Ph II				<b>Start Date</b> 01/24/2013	<b>Boring ID</b> <b>SS-19</b>
<b>Commission Number</b> 18HM301.002				<b>End Date</b> 01/24/2013	
<b>Client</b> Connecticut DECD					
<b>Location</b> Mystic - 240 Oral School Road					
<b>Drilling Contractor</b> Loureiro Engineering Associates, Inc.				<b>Logged by</b>	Jeremy Marcantonio
<b>Drilling Method</b> Hand Auger				<b>Drilling Foreman</b>	Sam Rooney
<b>Sampling Method</b> Grab				<b>Drill Rig</b>	Hand Auger
<b>Groundwater Observation</b>				<b>Surface Elevation</b>	
<b>Depth</b> at <b>Hours</b>				<b>Latitude</b>	
<b>Depth</b> at <b>Hours</b>				<b>Longitude</b>	
Depth	Sample Information			Soil Description	PID/FID ppm
	Sample No.	Recovery (%)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structure, Density, Cohesiveness, Other	
0- 0.5	1273789	100		Brown fine to very fine SAND, trace medium Sand, trace very fine Gravel, loose, slightly moist  Bottom of Boring at 0.5'	0.5





**GEOLOGIC BORING LOG**

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<b>Project:</b> CTDECD Mystic 240 Oral School Rd-Ph II				<b>Start Date</b> 01/24/2013	<b>Boring ID</b> <b>SS-20</b>
<b>Commission Number</b> 18HM301.002				<b>End Date</b> 01/24/2013	
<b>Client</b> Connecticut DECD					
<b>Location</b> Mystic - 240 Oral School Road					
<b>Drilling Contractor</b> Loureiro Engineering Associates, Inc.				<b>Logged by</b>	Jeremy Marcantonio
<b>Drilling Method</b> Hand Auger				<b>Drilling Foreman</b>	Sam Rooney
<b>Sampling Method</b> Grab				<b>Drill Rig</b>	Hand Auger
<b>Groundwater Observation</b>				<b>Surface Elevation</b>	
<b>Depth</b> at <b>Hours</b>				<b>Latitude</b>	
<b>Depth</b> at <b>Hours</b>				<b>Longitude</b>	
Depth	Sample Information			Soil Description	PID/FID ppm
	Sample No.	Recovery (%)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structure, Density, Cohesiveness, Other	
0- 0.5	1273790	100		Brown fine to very fine SAND, trace medium Sand, loose, slightly moist  Bottom of Boring at 0.5'	0.5





# GEOLOGIC BORING LOG

Page 1 of 1

<b>Project:</b> CTDECD Mystic 240 Oral School Rd-Ph II <b>Commission Number</b> 18HM301.002 <b>Client</b> Connecticut DECD <b>Location</b> Mystic - 240 Oral School Road				<b>Start Date</b> 01/24/2013  <b>End Date</b> 01/24/2013	<b>Boring ID</b> <b>SS-21</b>
<b>Drilling Contractor</b> Loureiro Engineering Associates, Inc. <b>Drilling Method</b> Hand Auger <b>Sampling Method</b> Grab <b>Groundwater Observation</b> <b>Depth</b> at <b>Hours</b> <b>Depth</b> at <b>Hours</b>				<b>Logged by</b> Jeremy Marcantonio <b>Drilling Foreman</b> Sam Rooney <b>Drill Rig</b> Hand Auger <b>Surface Elevation</b> <b>Latitude</b> <b>Longitude</b>	
Depth	Sample Information			Soil Description Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structure, Density, Cohesiveness, Other	PID/FID ppm
	Sample No.	Recovery (%)	Blows /6"		
0-0.5	1273791	100		Brown fine to very fine SAND, trace medium Sand, trace very fine to fine Gravel, loose, slightly moist  Bottom of Boring at 0.5'	0.3





## **APPENDIX C**

### **Well Completion Logs**



# WELL COMPLETION LOG

<b>Project:</b> CTDECD Mystic 240 Oral School Rd-Ph II <b>Commission Number</b> 18HM301.002 <b>Client</b> Connecticut DECD <b>Location</b> Mystic - 240 Oral School Road	<b>Start Date</b> 01/24/2013  <b>End Date</b> 01/30/2013	<b>Well ID</b> <b>MW-01</b>
<b>Drilling Contractor</b> Loureiro Engineering Associates, Inc. <b>Drilling Method</b> Direct Push <b>Sampling Method</b> <b>Groundwater Observation</b> <b>Depth</b> 14.7 <b>at</b> <b>Hours</b> Average depth to water is 14.72	<b>Logged by</b> Keith Volkert <b>Drilling Foreman</b> Jeremy Corcoran <b>Drill Rig</b> Geoprobe 6610DT	

<b>Protector</b> Material Steel Pipe Diameter 6" Length 5' Ground Stickup 4' Key # Cover Type  <b>Top Seal</b> Top Bottom Material  <b>Backfill</b> Top Bottom Material  <b>Secondary Sand</b> Top Bottom Size  <b>Filter Pack</b> Top 3.0 Bottom 15.0 Material Zero Sand  Reported depth to bottom of boring 15.00 Last measured depth 18.55  Comments		Concrete Diameter 12" Concrete Thickness 12"  <b>Reference</b> Elevation Description  <b>Casing</b> Diameter 1" Material Sch40 PVC Length 9' Top Elevation  <b>Seal</b> Top 2.0 Bottom 3.0 Material Bentonite Chips  <b>Screen</b> Top 5.00 Bottom 15.00 Material Sch40 PVC Diameter 1" Length 10 Slot Size 10'  <b>Soil Description</b> 4' to 6': Brown fine to very fine SAND, trace medium Sand, trace (+) fine to medium Gravel, loose, moist 6' to 8': As Above 8' to 10': Gray very fine to medium SAND, some fine to medium Gravel, moderately dense, wet 10' to 12': As Above  Bottom of Boring at 12'
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Vertical scale ~ 1:40





## WELL COMPLETION LOG

<b>Project:</b> CTDECD Mystic 240 Oral School Rd-Ph II <b>LEA Commission Number</b> 18HM301.002 <b>Client</b> Connecticut DECD <b>Location</b> Mystic - 240 Oral School Road		<b>Start Date</b> 01/24/2013 <b>End Date</b> 01/31/2013	<b>Well ID</b> <b>MW-02</b>
<b>Drilling Contractor</b> Loureiro Engineering Associates, Inc. <b>Drilling Method</b> Direct Push <b>Sampling Method</b> <b>Groundwater Observation</b> <b>Depth</b> 6 <b>at</b> <b>Hours</b> Average depth to water is 5.19		<b>Logged by</b> Keith Volkert <b>Drilling Foreman</b> Jeremy Corcoran <b>Drill Rig</b> Geoprobe 6610DT	

<b>Protector</b> Material Road box Diameter 4" Length 12"                      Ground Stickup Key # Cover Type	Concrete Diameter 1.5' Concrete Thickness 1'  <b>Reference</b> Elevation Description	
<b>Top Seal</b> Top Bottom Material	<b>Casing</b> Diameter 1.5" Material Sch40 PVC Length 5.0 Top Elevation	
<b>Backfill</b> Top 1' Bottom 2.0 Material	<b>Seal</b> Top 2.0 Bottom 3.0 Material Bentonite Chips	
<b>Secondary Sand</b> Top 3' Bottom 10' Size Zero Sand	<b>Screen</b> Top 5.00 Bottom 10.00 Material Sch40Prepack Diameter 1.5" Length 5.0 Slot Size 10'	
<b>Filter Pack</b> Top 3.0 Bottom 10.0 Material Prepack	<b>Soil Description</b>  4' to 6': Yellow brown gray mottled fine to very fine SAND, trace Silt, trace fine to medium Gravel, loose, moist 6' to 8': As Above, wet 8' to 10': Yellow gray fine to very fine SAND, some fine to medium Gravel, loose, wet  Geoprobe Refusal at 10'	
Reported depth to bottom of boring 10.00 Last measured depth 10.15  Comments		

*Vertical scale ~ 1:30*





# WELL COMPLETION LOG

<b>Project:</b> CTDECD Mystic 240 Oral School Rd-Ph II <b>Commission Number</b> 18HM301.002 <b>Client</b> Connecticut DECD <b>Location</b> Mystic - 240 Oral School Road		<b>Start Date</b> 01/28/2013 <b>End Date</b> 01/31/2013	<b>Well ID</b> <b>MW-03</b>
<b>Drilling Contractor</b> Loureiro Engineering Associates, Inc. <b>Drilling Method</b> Direct Push <b>Sampling Method</b> <b>Groundwater Observation</b> <b>Depth</b> 5.4 <b>at</b> <b>Hours</b> Average depth to water is 5.43		<b>Logged by</b> Keith Volkert <b>Drilling Foreman</b> Jeremy Corcoran <b>Drill Rig</b> Geoprobe 6610DT	

<b>Protector</b> Material Road box Diameter 4" Length 12" Stickup Key # Cover Type  <b>Top Seal</b> Top Bottom Material  <b>Backfill</b> Top Bottom Material  <b>Secondary Sand</b> Top Bottom Size Zero Sand  <b>Filter Pack</b> Top 3.0 Bottom 15.0 Material Zero Sand	Concrete Diameter 24"X18" Concrete Thickness 12"  <b>Reference</b> Elevation Description  <b>Casing</b> Diameter 1" Material Sch40 PVC Length 5.0 Top Elevation  <b>Seal</b> Top 2.0 Bottom 3.0 Material Bentonite Chips  <b>Screen</b> Top 5.00 Bottom 15.00 Material Sch40 PVC Diameter 1" Length 10.0 Slot Size 10'	<div style="text-align: center;"> </div> <p>Reported depth to bottom of boring 15.00          Last measured depth 14.87</p> <p><b>Comments</b></p> <p style="text-align: right;">Soil Description</p> <p>4' to 6': Dark brown fine to very fine SAND, little (-) Silt, trace (+) fine to medium Gravel, loose, wet          6' to 8': Brown fine to very fine SAND, trace (+) Silt, trace (-) medium Gravel, loose, wet          8' to 10': As Above          10' to 12.4': Brown fine to very fine SAND and fine to coarse GRAVEL, moderately dense, moist           Geoprobe Refusal at 12.4'</p>
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Vertical scale ~ 1:40





## **APPENDIX D**

### **Con-Test Laboratory Analytical Reports**



February 4, 2013

David Scotti  
Loureiro Engineering Associates  
100 Northwest Drive  
Plainville, CT 06062

Project Location: 240 Oral School Road, Mystic, CT  
Client Job Number:  
Project Number: [none]  
Laboratory Work Order Number: 13A0643

Enclosed are results of analyses for samples received by the laboratory on January 24, 2013. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Lisa A. Worthington  
Project Manager



Loureiro Engineering Associates  
100 Northwest Drive  
Plainville, CT 06062  
ATTN: David Scotti

REPORT DATE: 2/4/2013

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

**ANALYTICAL SUMMARY**

WORK ORDER NUMBER: 13A0643

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

PROJECT LOCATION: 240 Oral School Road, Mystic, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
1273937	13A0643-01	Trip Blank Water		SW-846 8260C	
1273791	13A0643-02	Soil		SM 2540G	
				SW-846 6010C	
				SW-846 8081B	
1273790	13A0643-03	Soil		SM 2540G	
				SW-846 8081B	
1273789	13A0643-04	Soil		SM 2540G	
				SW-846 6010C	
				SW-846 8081B	
1273788	13A0643-05	Soil		SM 2540G	
				SW-846 6010C	
				SW-846 8081B	
1273787	13A0643-06	Soil		SM 2540G	
				SW-846 8081B	
1273786	13A0643-07	Soil		SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8081B	
				SW-846 8260C	
				SW-846 8270D	
1273785	13A0643-08	Soil		SM 2540G	
				SW-846 6010C	
				SW-846 8081B	
1273784	13A0643-09	Soil		SM 2540G	
				SW-846 6010C	
				SW-846 8081B	
1270649	13A0643-11	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8081B	
				SW-846 8082A	
				SW-846 8260C	
				SW-846 8270D	
1273766	13A0643-12	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8260C	
				SW-846 8270D	



Loureiro Engineering Associates  
100 Northwest Drive  
Plainville, CT 06062  
ATTN: David Scotti

REPORT DATE: 2/4/2013

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

**ANALYTICAL SUMMARY**

WORK ORDER NUMBER: 13A0643

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

PROJECT LOCATION: 240 Oral School Road, Mystic, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
1273767	13A0643-13	Soil		CTDEP ETPH SM 2540G SW-846 8260C SW-846 8270D	
1273765	13A0643-14	Soil		CTDEP ETPH SM 2540G SW-846 8260C SW-846 8270D	
1273764	13A0643-15	Soil		SM 2540G SW-846 6010C SW-846 8081B	
1273763	13A0643-16	Soil		CTDEP ETPH SM 2540G SW-846 8082A SW-846 8270D	
1273762	13A0643-17	Soil		CTDEP ETPH SM 2540G SW-846 8082A SW-846 8270D	
1273761	13A0643-18	Soil		CTDEP ETPH SM 2540G SW-846 8082A SW-846 8270D	
1273741	13A0643-19	Soil		CTDEP ETPH SM 2540G SW-846 8082A SW-846 8270D	
1273742	13A0643-20	Soil		CTDEP ETPH SM 2540G SW-846 8082A SW-846 8270D	
1273743	13A0643-21	Soil		CTDEP ETPH SM 2540G SW-846 8082A SW-846 8270D	



Loureiro Engineering Associates  
100 Northwest Drive  
Plainville, CT 06062  
ATTN: David Scotti

REPORT DATE: 2/4/2013

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

**ANALYTICAL SUMMARY**

WORK ORDER NUMBER: 13A0643

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

PROJECT LOCATION: 240 Oral School Road, Mystic, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
1273744	13A0643-22	Soil		CTDEP ETPH SM 2540G SW-846 6010C SW-846 7471B SW-846 8082A SW-846 8260C SW-846 8270D	
1273746	13A0643-24	Soil		CTDEP ETPH SM 2540G SW-846 6010C SW-846 7471B SW-846 8082A SW-846 8260C SW-846 8270D	
1273748	13A0643-26	Soil		CTDEP ETPH SM 2540G SW-846 6010C SW-846 7471B SW-846 8082A SW-846 8260C SW-846 8270D	
1273750	13A0643-28	Soil		CTDEP ETPH SM 2540G SW-846 6010C SW-846 7471B SW-846 8082A SW-846 8260C SW-846 8270D	
1273752	13A0643-30	Soil		CTDEP ETPH SM 2540G SW-846 6010C SW-846 7471B SW-846 8082A SW-846 8260C SW-846 8270D	



Loureiro Engineering Associates  
100 Northwest Drive  
Plainville, CT 06062  
ATTN: David Scotti

REPORT DATE: 2/4/2013

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

**ANALYTICAL SUMMARY**

WORK ORDER NUMBER: 13A0643

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

PROJECT LOCATION: 240 Oral School Road, Mystic, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
1273756	13A0643-34	Soil		CTDEP ETPH SM 2540G SW-846 6010C SW-846 7471B SW-846 8082A SW-846 8260C SW-846 8270D	
1273759	13A0643-37	Soil		CTDEP ETPH SM 2540G SW-846 6010C SW-846 7471B SW-846 8082A SW-846 8260C SW-846 8270D	
1273768	13A0643-39	Soil		CTDEP ETPH SM 2540G SW-846 6010C SW-846 7471B SW-846 8081B SW-846 8082A SW-846 8260C SW-846 8270D	
1273769	13A0643-40	Soil		CTDEP ETPH SM 2540G SW-846 6010C SW-846 7471B SW-846 8082A SW-846 8260C SW-846 8270D	
1273770	13A0643-41	Soil		CTDEP ETPH SM 2540G SW-846 6010C SW-846 7471B SW-846 8081B SW-846 8082A SW-846 8151A SW-846 8260C SW-846 8270D	





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

Loureiro Engineering Associates  
100 Northwest Drive  
Plainville, CT 06062  
ATTN: David Scotti

REPORT DATE: 2/4/2013

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

#### ANALYTICAL SUMMARY

WORK ORDER NUMBER: 13A0643

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

PROJECT LOCATION: 240 Oral School Road, Mystic, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
1273771	13A0643-42	Soil		CTDEP ETPH SM 2540G SW-846 6010C SW-846 7471B SW-846 8081B SW-846 8082A SW-846 8151A SW-846 8260C SW-846 8270D	
1273773	13A0643-44	Soil		CTDEP ETPH SM 2540G SW-846 6010C SW-846 7471B SW-846 8082A SW-846 8260C SW-846 8270D	
1273775	13A0643-46	Soil		CTDEP ETPH SM 2540G SW-846 6010C SW-846 7471B SW-846 8081B SW-846 8082A SW-846 8151A SW-846 8260C SW-846 8270D	
1273778	13A0643-49	Soil		CTDEP ETPH SM 2540G SW-846 6010C SW-846 7471B SW-846 8082A SW-846 8260C SW-846 8270D	
1273781	13A0643-52	Soil		CTDEP ETPH SM 2540G SW-846 6010C SW-846 7471B SW-846 8081B SW-846 8082A SW-846 8151A SW-846 8260C SW-846 8270D	





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

Loureiro Engineering Associates  
100 Northwest Drive  
Plainville, CT 06062  
ATTN: David Scotti

REPORT DATE: 2/4/2013

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

#### ANALYTICAL SUMMARY

WORK ORDER NUMBER: 13A0643

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

PROJECT LOCATION: 240 Oral School Road, Mystic, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
1273782	13A0643-53	Soil		CTDEP ETPH SM 2540G SW-846 6010C SW-846 7471B SW-846 8082A SW-846 8260C SW-846 8270D	
1273935	13A0643-55	Ground Water		CTDEP ETPH SW-846 8082A SW-846 8260C SW-846 8270D	
1273935UF	13A0643-56	Ground Water		SW-846 6020A SW-846 7470A	
1273936	13A0643-57	Ground Water		CTDEP ETPH SW-846 6020A SW-846 7470A SW-846 8081B SW-846 8082A SW-846 8151A SW-846 8260C SW-846 8270D	



#### **CASE NARRATIVE SUMMARY**

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

For method 6020, only RCRA 8 metals, Cu, Ni and Zn were requested and reported.

For method 6010, only Pb was requested and reported for samples 13A0643-02, 04, 05, 08, 09 and 15. For all other samples RCRA 8 metals, Cu, Ni and Zn were requested and reported.

For method 8270 only PAHs were requested and reported.



**CTDEP ETPH****Qualifications:**

---

Elevated reporting limit due to matrix.

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

13A0643-30RE1[1273752], 13A0643-42[1273771]

---

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**

13A0643-26RE1[1273748], 13A0643-53[1273782]

---

Surrogate recovery is outside of control limits, matrix interference suspected. Reanalysis yielded similar surrogate non-conformance.

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

13A0643-24RE1[1273746], 13A0643-24RE2[1273746]

---

**SW-846 6010C****Qualifications:**

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

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

13A0643-04[1273789], 13A0643-05[1273788], 13A0643-08[1273785], 13A0643-09[1273784], 13A0643-15[1273764], B066739-MRL1

---

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

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

B066738-MS1

---

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

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

B066738-DUP1

---

**SW-846 8081B****Qualifications:**

---

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

**Analyte & Samples(s) Qualified:****Heptachlor Epoxide, Heptachlor Epoxide [2C]**

13A0643-02[1273791], B066713-MS1, B066713-MSD1

---



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:****4,4'-DDT, Endrin Ketone, Hexachlorobenzene, Hexachlorobenzene [2C]**

13A0643-39[1273768], B066768-MS1, B066768-MSD1, 13A0643-02[1273791], B066713-MS1, B066713-MSD1

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:****Aldrin [2C], Chlordane**

B066768-BS1, B066768-BSD1, B066768-MS1, B066768-MSD1, 13A0643-02[1273791]

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**

13A0643-03[1273790], 13A0643-05[1273788], 13A0643-07[1273786], 13A0643-09[1273784]

**SW-846 8151A****Qualifications:**

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

**Analyte & Samples(s) Qualified:****Dicamba [2C]**

B066636-BS1

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

**Analyte & Samples(s) Qualified:****2,4,5-T**

B066636-BLK1, B066636-BS1, B066636-BSD1, B066899-BLK1, B066899-BS1, B066899-BSD1

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

**Analyte & Samples(s) Qualified:****2,4,5-T [2C], 2,4,5-TP (Silvex) [2C], Dicamba [2C]**

B066636-BS1, B066636-BSD1, B066899-BS1, B066899-BSD1

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

**Analyte & Samples(s) Qualified:****2,4,5-T [2C], Dicamba [2C]**

13A0643-57[1273936], 13A0643-41[1273770], 13A0643-42[1273771], 13A0643-46[1273775], 13A0643-52[1273781]

**SW-846 8260C****Qualifications:**

Reported result is estimated. Value reported over verified calibration range.

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

13A0643-26[1273748]



Laboratory fortified blank /laboratory control sample recovery outside of control limits. Data validation is not affected since all results are "not detected" for all samples in this batch for this compound and bias is on the high side.

**Analyte & Samples(s) Qualified:****2-Hexanone (MBK), Bromomethane**

B066796-BS1, B066901-BS1, B066902-BS1

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

**Analyte & Samples(s) Qualified:****1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene, Chloromethane, Dichlorodifluoromethane (Freon 12), Naphthalene, Vinyl Chloride**

13A0643-12[1273766], B066859-MS1

Sample preserved in the laboratory, not in the field as required by the method.

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

13A0643-07[1273786], 13A0643-11[1270649]

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

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

13A0643-01[1273937], 13A0643-12[1273766], 13A0643-13[1273767], 13A0643-14[1273765], 13A0643-22[1273744], 13A0643-24[1273746], 13A0643-26[1273748], 13A0643-28[1273750], 13A0643-30[1273752], 13A0643-34[1273756], 13A0643-37[1273759], 13A0643-39[1273768], 13A0643-40[1273769], 13A0643-41[1273770], 13A0643-42[1273771], 13A0643-44[1273773], 13A0643-46[1273775], 13A0643-49[1273778], 13A0643-52[1273781], 13A0643-53[1273782], 13A0643-53RE1[1273782], B066859-BLK1, B066859-BS1, B066859-MS1, B066916-BLK1, B066916-BS1

Internal standard area <50% of associated calibration standard internal standard area.

**Analyte & Samples(s) Qualified:****1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene, 1,2,4-Trimethylbenzene, 1,2-Dibromo-3-chloropropane (DBCP), 1,2-Dichlorobenzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 1,4-Dichlorobenzene-d4, Hexachlorobutadiene, Naphthalene, n-Butylbenzene, p-Isopropyltoluene (p-Cymene), sec-Butylbenzene, tert-Butylbenzene**

13A0643-53[1273782], 13A0643-53RE1[1273782]

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

**Analyte & Samples(s) Qualified:****2-Hexanone (MBK), Bromomethane**

B066796-BS1, B066901-BS1, B066902-BS1

SW-846 8270D

**Qualifications:**

Elevated reporting limit due to matrix.

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

13A0643-14[1273765], 13A0643-20[1273742], 13A0643-20RE1[1273742], 13A0643-30[1273752], 13A0643-53[1273782]

Reported result is estimated. Value reported over verified calibration range.

**Analyte & Samples(s) Qualified:****Fluoranthene, Phenanthrene, Pyrene**

13A0643-20[1273742]



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:****Acenaphthylene (low)**

B066746-BS1, B066746-BSD1

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

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

13A0643-13[1273767]

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**

B066731-BLK1, B066731-BS1, B066731-BSD1

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

**Analyte & Samples(s) Qualified:****Benzo(b)fluoranthene (low), Indeno(1,2,3-cd)pyrene (low)**

B066746-BLK1, B066746-BS1, B066746-BSD1

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

**Analyte & Samples(s) Qualified:****Indeno(1,2,3-cd)pyrene (low)**

B066746-BLK1

**SW-846 8260C**

All water reporting limits specified on the chain-of-custody were met except for Acrylonitrile, where the most protective criteria are not met since the laboratory cannot achieve the required RCP calibration criteria at these levels, unless otherwise listed in this narrative.

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

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



Michael A. Erickson  
Laboratory Director



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273937

Sampled: 1/24/2013 09:40

Sample ID: 13A0643-01

Sample Matrix: Trip Blank Water

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.10	mg/Kg wet	1		SW-846 8260C	1/25/13	1/29/13 9:05	MFF
Acrylonitrile	ND	0.0060	mg/Kg wet	1	V-16	SW-846 8260C	1/25/13	1/29/13 9:05	MFF
Benzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/25/13	1/29/13 9:05	MFF
Bromobenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/25/13	1/29/13 9:05	MFF
Bromodichloromethane	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/25/13	1/29/13 9:05	MFF
Bromoform	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/25/13	1/29/13 9:05	MFF
Bromomethane	ND	0.010	mg/Kg wet	1		SW-846 8260C	1/25/13	1/29/13 9:05	MFF
2-Butanone (MEK)	ND	0.040	mg/Kg wet	1		SW-846 8260C	1/25/13	1/29/13 9:05	MFF
n-Butylbenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/25/13	1/29/13 9:05	MFF
sec-Butylbenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/25/13	1/29/13 9:05	MFF
tert-Butylbenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/25/13	1/29/13 9:05	MFF
Carbon Disulfide	ND	0.0060	mg/Kg wet	1		SW-846 8260C	1/25/13	1/29/13 9:05	MFF
Carbon Tetrachloride	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/25/13	1/29/13 9:05	MFF
Chlorobenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/25/13	1/29/13 9:05	MFF
Chlorodibromomethane	ND	0.0010	mg/Kg wet	1		SW-846 8260C	1/25/13	1/29/13 9:05	MFF
Chloroethane	ND	0.020	mg/Kg wet	1		SW-846 8260C	1/25/13	1/29/13 9:05	MFF
Chloroform	ND	0.0040	mg/Kg wet	1		SW-846 8260C	1/25/13	1/29/13 9:05	MFF
Chloromethane	ND	0.010	mg/Kg wet	1		SW-846 8260C	1/25/13	1/29/13 9:05	MFF
2-Chlorotoluene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/25/13	1/29/13 9:05	MFF
4-Chlorotoluene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/25/13	1/29/13 9:05	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg wet	1	V-16	SW-846 8260C	1/25/13	1/29/13 9:05	MFF
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet	1		SW-846 8260C	1/25/13	1/29/13 9:05	MFF
Dibromomethane	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/25/13	1/29/13 9:05	MFF
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/25/13	1/29/13 9:05	MFF
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/25/13	1/29/13 9:05	MFF
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/25/13	1/29/13 9:05	MFF
trans-1,4-Dichloro-2-butene	ND	0.0040	mg/Kg wet	1		SW-846 8260C	1/25/13	1/29/13 9:05	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.020	mg/Kg wet	1		SW-846 8260C	1/25/13	1/29/13 9:05	MFF
1,1-Dichloroethane	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/25/13	1/29/13 9:05	MFF
1,2-Dichloroethane	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/25/13	1/29/13 9:05	MFF
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet	1		SW-846 8260C	1/25/13	1/29/13 9:05	MFF
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/25/13	1/29/13 9:05	MFF
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/25/13	1/29/13 9:05	MFF
1,2-Dichloropropane	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/25/13	1/29/13 9:05	MFF
1,3-Dichloropropane	ND	0.0010	mg/Kg wet	1		SW-846 8260C	1/25/13	1/29/13 9:05	MFF
2,2-Dichloropropane	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/25/13	1/29/13 9:05	MFF
1,1-Dichloropropene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/25/13	1/29/13 9:05	MFF
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg wet	1		SW-846 8260C	1/25/13	1/29/13 9:05	MFF
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg wet	1		SW-846 8260C	1/25/13	1/29/13 9:05	MFF
Ethylbenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/25/13	1/29/13 9:05	MFF
Hexachlorobutadiene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/25/13	1/29/13 9:05	MFF
2-Hexanone (MBK)	ND	0.020	mg/Kg wet	1		SW-846 8260C	1/25/13	1/29/13 9:05	MFF
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/25/13	1/29/13 9:05	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/25/13	1/29/13 9:05	MFF



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273937

Sampled: 1/24/2013 09:40

Sample ID: 13A0643-01

Sample Matrix: Trip Blank Water

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet	1		SW-846 8260C	1/25/13	1/29/13 9:05	MFF
Methylene Chloride	ND	0.020	mg/Kg wet	1		SW-846 8260C	1/25/13	1/29/13 9:05	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet	1		SW-846 8260C	1/25/13	1/29/13 9:05	MFF
Naphthalene	ND	0.0040	mg/Kg wet	1		SW-846 8260C	1/25/13	1/29/13 9:05	MFF
n-Propylbenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/25/13	1/29/13 9:05	MFF
Styrene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/25/13	1/29/13 9:05	MFF
1,1,1,2-Tetrachloroethane	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/25/13	1/29/13 9:05	MFF
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg wet	1		SW-846 8260C	1/25/13	1/29/13 9:05	MFF
Tetrachloroethylene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/25/13	1/29/13 9:05	MFF
Tetrahydrofuran	ND	0.010	mg/Kg wet	1	V-16	SW-846 8260C	1/25/13	1/29/13 9:05	MFF
Toluene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/25/13	1/29/13 9:05	MFF
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/25/13	1/29/13 9:05	MFF
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/25/13	1/29/13 9:05	MFF
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/25/13	1/29/13 9:05	MFF
1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/25/13	1/29/13 9:05	MFF
Trichloroethylene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/25/13	1/29/13 9:05	MFF
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet	1		SW-846 8260C	1/25/13	1/29/13 9:05	MFF
1,2,3-Trichloropropane	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/25/13	1/29/13 9:05	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	mg/Kg wet	1		SW-846 8260C	1/25/13	1/29/13 9:05	MFF
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/25/13	1/29/13 9:05	MFF
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/25/13	1/29/13 9:05	MFF
Vinyl Chloride	ND	0.010	mg/Kg wet	1		SW-846 8260C	1/25/13	1/29/13 9:05	MFF
m+p Xylene	ND	0.0040	mg/Kg wet	1		SW-846 8260C	1/25/13	1/29/13 9:05	MFF
o-Xylene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/25/13	1/29/13 9:05	MFF
Surrogates	% Recovery	Recovery Limits	Flag						
1,2-Dichloroethane-d4	110	70-130							
Toluene-d8	101	70-130							
4-Bromofluorobenzene	99.7	70-130							



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273791

Sampled: 1/24/2013 14:45

Sample ID: 13A0643-02

Sample Matrix: Soil

## Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.026	mg/Kg dry	1		SW-846 8081B	1/25/13	1/28/13 17:41	MJC
Aldrin [1]	ND	0.0064	mg/Kg dry	1		SW-846 8081B	1/25/13	1/28/13 17:41	MJC
alpha-BHC [1]	ND	0.0064	mg/Kg dry	1		SW-846 8081B	1/25/13	1/28/13 17:41	MJC
beta-BHC [1]	ND	0.0064	mg/Kg dry	1		SW-846 8081B	1/25/13	1/28/13 17:41	MJC
delta-BHC [1]	ND	0.0064	mg/Kg dry	1		SW-846 8081B	1/25/13	1/28/13 17:41	MJC
gamma-BHC (Lindane) [1]	ND	0.0026	mg/Kg dry	1		SW-846 8081B	1/25/13	1/28/13 17:41	MJC
Chlordane [2]	0.21	0.026	mg/Kg dry	1		SW-846 8081B	1/25/13	1/28/13 17:41	MJC
4,4'-DDD [1]	ND	0.0051	mg/Kg dry	1		SW-846 8081B	1/25/13	1/28/13 17:41	MJC
4,4'-DDE [1]	ND	0.0051	mg/Kg dry	1		SW-846 8081B	1/25/13	1/28/13 17:41	MJC
4,4'-DDT [1]	ND	0.0051	mg/Kg dry	1		SW-846 8081B	1/25/13	1/28/13 17:41	MJC
Dieldrin [1]	ND	0.0051	mg/Kg dry	1		SW-846 8081B	1/25/13	1/28/13 17:41	MJC
Endosulfan I [1]	ND	0.0064	mg/Kg dry	1		SW-846 8081B	1/25/13	1/28/13 17:41	MJC
Endosulfan II [1]	ND	0.010	mg/Kg dry	1		SW-846 8081B	1/25/13	1/28/13 17:41	MJC
Endosulfan sulfate [1]	ND	0.010	mg/Kg dry	1		SW-846 8081B	1/25/13	1/28/13 17:41	MJC
Endrin [1]	ND	0.010	mg/Kg dry	1		SW-846 8081B	1/25/13	1/28/13 17:41	MJC
Endrin aldehyde [1]	ND	0.010	mg/Kg dry	1		SW-846 8081B	1/25/13	1/28/13 17:41	MJC
Endrin ketone [1]	ND	0.010	mg/Kg dry	1		SW-846 8081B	1/25/13	1/28/13 17:41	MJC
Heptachlor [1]	ND	0.0064	mg/Kg dry	1		SW-846 8081B	1/25/13	1/28/13 17:41	MJC
Heptachlor epoxide [1]	0.039	0.0064	mg/Kg dry	1	MS-07A	SW-846 8081B	1/25/13	1/28/13 17:41	MJC
Hexachlorobenzene [1]	ND	0.0077	mg/Kg dry	1	R-06	SW-846 8081B	1/25/13	1/28/13 17:41	MJC
Methoxychlor [1]	ND	0.064	mg/Kg dry	1		SW-846 8081B	1/25/13	1/28/13 17:41	MJC
Toxaphene [1]	ND	0.13	mg/Kg dry	1		SW-846 8081B	1/25/13	1/28/13 17:41	MJC
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	41.7	30-150							
Decachlorobiphenyl [2]	53.4	30-150							
Tetrachloro-m-xylene [1]	55.8	30-150							
Tetrachloro-m-xylene [2]	54.2	30-150							



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273791

Sampled: 1/24/2013 14:45

Sample ID: 13A0643-02

Sample Matrix: Soil

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**Metals Analyses (Total)**

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	21	0.93	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 15:37	KSH



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

Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273791

Sampled: 1/24/2013 14:45

Sample ID: 13A0643-02

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	76.4		% Wt	1		SM 2540G	1/29/13	1/30/13 9:24	RH



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273790

Sampled: 1/24/2013 14:26

Sample ID: 13A0643-03

Sample Matrix: Soil

## Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.024	mg/Kg dry	1		SW-846 8081B	1/25/13	1/29/13 21:31	JMB
Aldrin [1]	ND	0.0060	mg/Kg dry	1		SW-846 8081B	1/25/13	1/29/13 21:31	JMB
alpha-BHC [1]	ND	0.0060	mg/Kg dry	1		SW-846 8081B	1/25/13	1/29/13 21:31	JMB
beta-BHC [1]	ND	0.0060	mg/Kg dry	1		SW-846 8081B	1/25/13	1/29/13 21:31	JMB
delta-BHC [1]	ND	0.0060	mg/Kg dry	1		SW-846 8081B	1/25/13	1/29/13 21:31	JMB
gamma-BHC (Lindane) [1]	ND	0.0024	mg/Kg dry	1		SW-846 8081B	1/25/13	1/29/13 21:31	JMB
Chlordane [1]	ND	0.024	mg/Kg dry	1		SW-846 8081B	1/25/13	1/29/13 21:31	JMB
4,4'-DDD [1]	ND	0.0048	mg/Kg dry	1	V-20	SW-846 8081B	1/25/13	1/29/13 21:31	JMB
4,4'-DDE [1]	ND	0.0048	mg/Kg dry	1		SW-846 8081B	1/25/13	1/29/13 21:31	JMB
4,4'-DDT [1]	ND	0.0048	mg/Kg dry	1		SW-846 8081B	1/25/13	1/29/13 21:31	JMB
Dieldrin [1]	ND	0.0048	mg/Kg dry	1		SW-846 8081B	1/25/13	1/29/13 21:31	JMB
Endosulfan I [1]	ND	0.0060	mg/Kg dry	1		SW-846 8081B	1/25/13	1/29/13 21:31	JMB
Endosulfan II [1]	ND	0.0096	mg/Kg dry	1		SW-846 8081B	1/25/13	1/29/13 21:31	JMB
Endosulfan sulfate [1]	ND	0.0096	mg/Kg dry	1		SW-846 8081B	1/25/13	1/29/13 21:31	JMB
Endrin [1]	ND	0.0096	mg/Kg dry	1		SW-846 8081B	1/25/13	1/29/13 21:31	JMB
Endrin aldehyde [1]	ND	0.0096	mg/Kg dry	1		SW-846 8081B	1/25/13	1/29/13 21:31	JMB
Endrin ketone [1]	ND	0.0096	mg/Kg dry	1		SW-846 8081B	1/25/13	1/29/13 21:31	JMB
Heptachlor [1]	ND	0.0060	mg/Kg dry	1		SW-846 8081B	1/25/13	1/29/13 21:31	JMB
Heptachlor epoxide [1]	ND	0.0060	mg/Kg dry	1		SW-846 8081B	1/25/13	1/29/13 21:31	JMB
Hexachlorobenzene [1]	ND	0.0072	mg/Kg dry	1		SW-846 8081B	1/25/13	1/29/13 21:31	JMB
Methoxychlor [1]	ND	0.060	mg/Kg dry	1		SW-846 8081B	1/25/13	1/29/13 21:31	JMB
Toxaphene [1]	ND	0.12	mg/Kg dry	1		SW-846 8081B	1/25/13	1/29/13 21:31	JMB
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	32.5	30-150							
Decachlorobiphenyl [2]	48.9	30-150							
Tetrachloro-m-xylene [1]	40.1	30-150							
Tetrachloro-m-xylene [2]	40.7	30-150							



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

Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273790

Sampled: 1/24/2013 14:26

Sample ID: 13A0643-03

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	82.2		% Wt	1		SM 2540G	1/29/13	1/30/13 9:24	RH



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273789

Sampled: 1/24/2013 14:15

Sample ID: 13A0643-04

Sample Matrix: Soil

## Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.023	mg/Kg dry	1		SW-846 8081B	1/25/13	1/28/13 18:01	MJC
Aldrin [1]	ND	0.0058	mg/Kg dry	1		SW-846 8081B	1/25/13	1/28/13 18:01	MJC
alpha-BHC [1]	ND	0.0058	mg/Kg dry	1		SW-846 8081B	1/25/13	1/28/13 18:01	MJC
beta-BHC [1]	ND	0.0058	mg/Kg dry	1		SW-846 8081B	1/25/13	1/28/13 18:01	MJC
delta-BHC [1]	ND	0.0058	mg/Kg dry	1		SW-846 8081B	1/25/13	1/28/13 18:01	MJC
gamma-BHC (Lindane) [1]	ND	0.0023	mg/Kg dry	1		SW-846 8081B	1/25/13	1/28/13 18:01	MJC
Chlordane [2]	ND	0.023	mg/Kg dry	1		SW-846 8081B	1/25/13	1/28/13 18:01	MJC
4,4'-DDD [1]	ND	0.0047	mg/Kg dry	1		SW-846 8081B	1/25/13	1/28/13 18:01	MJC
4,4'-DDE [1]	ND	0.0047	mg/Kg dry	1		SW-846 8081B	1/25/13	1/28/13 18:01	MJC
4,4'-DDT [1]	ND	0.0047	mg/Kg dry	1		SW-846 8081B	1/25/13	1/28/13 18:01	MJC
Dieldrin [1]	ND	0.0047	mg/Kg dry	1		SW-846 8081B	1/25/13	1/28/13 18:01	MJC
Endosulfan I [1]	ND	0.0058	mg/Kg dry	1		SW-846 8081B	1/25/13	1/28/13 18:01	MJC
Endosulfan II [1]	ND	0.0093	mg/Kg dry	1		SW-846 8081B	1/25/13	1/28/13 18:01	MJC
Endosulfan sulfate [1]	ND	0.0093	mg/Kg dry	1		SW-846 8081B	1/25/13	1/28/13 18:01	MJC
Endrin [1]	ND	0.0093	mg/Kg dry	1		SW-846 8081B	1/25/13	1/28/13 18:01	MJC
Endrin aldehyde [1]	ND	0.0093	mg/Kg dry	1		SW-846 8081B	1/25/13	1/28/13 18:01	MJC
Endrin ketone [1]	ND	0.0093	mg/Kg dry	1		SW-846 8081B	1/25/13	1/28/13 18:01	MJC
Heptachlor [1]	ND	0.0058	mg/Kg dry	1		SW-846 8081B	1/25/13	1/28/13 18:01	MJC
Heptachlor epoxide [1]	ND	0.0058	mg/Kg dry	1		SW-846 8081B	1/25/13	1/28/13 18:01	MJC
Hexachlorobenzene [1]	ND	0.0070	mg/Kg dry	1		SW-846 8081B	1/25/13	1/28/13 18:01	MJC
Methoxychlor [1]	ND	0.058	mg/Kg dry	1		SW-846 8081B	1/25/13	1/28/13 18:01	MJC
Toxaphene [1]	ND	0.12	mg/Kg dry	1		SW-846 8081B	1/25/13	1/28/13 18:01	MJC
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	41.1	30-150							
Decachlorobiphenyl [2]	50.0	30-150							
Tetrachloro-m-xylene [1]	51.9	30-150							
Tetrachloro-m-xylene [2]	49.6	30-150							



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

Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273789

Sampled: 1/24/2013 14:15

Sample ID: 13A0643-04

Sample Matrix: Soil

**Metals Analyses (Total)**

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	570	0.82	mg/Kg dry	1	M-12	SW-846 6010C	1/25/13	1/30/13 15:53	KSH



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273789

Sampled: 1/24/2013 14:15

Sample ID: 13A0643-04

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	85.1		% Wt	1		SM 2540G	1/29/13	1/30/13 9:24	RH



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273788

Sampled: 1/24/2013 14:06

Sample ID: 13A0643-05

Sample Matrix: Soil

## Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.025	mg/Kg dry	1		SW-846 8081B	1/25/13	1/29/13 21:51	JMB
Aldrin [1]	ND	0.0063	mg/Kg dry	1		SW-846 8081B	1/25/13	1/29/13 21:51	JMB
alpha-BHC [1]	ND	0.0063	mg/Kg dry	1		SW-846 8081B	1/25/13	1/29/13 21:51	JMB
beta-BHC [1]	ND	0.0063	mg/Kg dry	1		SW-846 8081B	1/25/13	1/29/13 21:51	JMB
delta-BHC [1]	ND	0.0063	mg/Kg dry	1		SW-846 8081B	1/25/13	1/29/13 21:51	JMB
gamma-BHC (Lindane) [1]	ND	0.0025	mg/Kg dry	1		SW-846 8081B	1/25/13	1/29/13 21:51	JMB
Chlordane [1]	ND	0.025	mg/Kg dry	1		SW-846 8081B	1/25/13	1/29/13 21:51	JMB
4,4'-DDD [1]	ND	0.0051	mg/Kg dry	1	V-20	SW-846 8081B	1/25/13	1/29/13 21:51	JMB
4,4'-DDE [1]	ND	0.0051	mg/Kg dry	1		SW-846 8081B	1/25/13	1/29/13 21:51	JMB
4,4'-DDT [1]	ND	0.0051	mg/Kg dry	1		SW-846 8081B	1/25/13	1/29/13 21:51	JMB
Dieldrin [1]	ND	0.0051	mg/Kg dry	1		SW-846 8081B	1/25/13	1/29/13 21:51	JMB
Endosulfan I [1]	ND	0.0063	mg/Kg dry	1		SW-846 8081B	1/25/13	1/29/13 21:51	JMB
Endosulfan II [1]	ND	0.010	mg/Kg dry	1		SW-846 8081B	1/25/13	1/29/13 21:51	JMB
Endosulfan sulfate [1]	ND	0.010	mg/Kg dry	1		SW-846 8081B	1/25/13	1/29/13 21:51	JMB
Endrin [1]	ND	0.010	mg/Kg dry	1		SW-846 8081B	1/25/13	1/29/13 21:51	JMB
Endrin aldehyde [1]	ND	0.010	mg/Kg dry	1		SW-846 8081B	1/25/13	1/29/13 21:51	JMB
Endrin ketone [1]	ND	0.010	mg/Kg dry	1		SW-846 8081B	1/25/13	1/29/13 21:51	JMB
Heptachlor [1]	ND	0.0063	mg/Kg dry	1		SW-846 8081B	1/25/13	1/29/13 21:51	JMB
Heptachlor epoxide [1]	ND	0.0063	mg/Kg dry	1		SW-846 8081B	1/25/13	1/29/13 21:51	JMB
Hexachlorobenzene [1]	ND	0.0076	mg/Kg dry	1		SW-846 8081B	1/25/13	1/29/13 21:51	JMB
Methoxychlor [1]	ND	0.063	mg/Kg dry	1		SW-846 8081B	1/25/13	1/29/13 21:51	JMB
Toxaphene [1]	ND	0.13	mg/Kg dry	1		SW-846 8081B	1/25/13	1/29/13 21:51	JMB
Surrogates	% Recovery	Recovery Limits			Flag				
Decachlorobiphenyl [1]	34.5	30-150						1/29/13 21:51	
Decachlorobiphenyl [2]	49.8	30-150						1/29/13 21:51	
Tetrachloro-m-xylene [1]	44.9	30-150						1/29/13 21:51	
Tetrachloro-m-xylene [2]	43.9	30-150						1/29/13 21:51	



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

Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273788

Sampled: 1/24/2013 14:06

Sample ID: 13A0643-05

Sample Matrix: Soil

**Metals Analyses (Total)**

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	730	0.93	mg/Kg dry	1	M-12	SW-846 6010C	1/25/13	1/30/13 15:59	KSH



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

Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273788

Sampled: 1/24/2013 14:06

Sample ID: 13A0643-05

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	76.1		% Wt	1		SM 2540G	1/29/13	1/30/13 9:24	RH



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273787

Sampled: 1/24/2013 13:59

Sample ID: 13A0643-06

Sample Matrix: Soil

### Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.026	mg/Kg dry	1		SW-846 8081B	1/25/13	1/28/13 18:21	MJC
Aldrin [1]	ND	0.0065	mg/Kg dry	1		SW-846 8081B	1/25/13	1/28/13 18:21	MJC
alpha-BHC [1]	ND	0.0065	mg/Kg dry	1		SW-846 8081B	1/25/13	1/28/13 18:21	MJC
beta-BHC [1]	ND	0.0065	mg/Kg dry	1		SW-846 8081B	1/25/13	1/28/13 18:21	MJC
delta-BHC [1]	ND	0.0065	mg/Kg dry	1		SW-846 8081B	1/25/13	1/28/13 18:21	MJC
gamma-BHC (Lindane) [1]	ND	0.0026	mg/Kg dry	1		SW-846 8081B	1/25/13	1/28/13 18:21	MJC
Chlordane [2]	ND	0.026	mg/Kg dry	1		SW-846 8081B	1/25/13	1/28/13 18:21	MJC
4,4'-DDD [1]	ND	0.0052	mg/Kg dry	1		SW-846 8081B	1/25/13	1/28/13 18:21	MJC
4,4'-DDE [1]	ND	0.0052	mg/Kg dry	1		SW-846 8081B	1/25/13	1/28/13 18:21	MJC
4,4'-DDT [1]	ND	0.0052	mg/Kg dry	1		SW-846 8081B	1/25/13	1/28/13 18:21	MJC
Dieldrin [1]	ND	0.0052	mg/Kg dry	1		SW-846 8081B	1/25/13	1/28/13 18:21	MJC
Endosulfan I [1]	ND	0.0065	mg/Kg dry	1		SW-846 8081B	1/25/13	1/28/13 18:21	MJC
Endosulfan II [1]	ND	0.010	mg/Kg dry	1		SW-846 8081B	1/25/13	1/28/13 18:21	MJC
Endosulfan sulfate [1]	ND	0.010	mg/Kg dry	1		SW-846 8081B	1/25/13	1/28/13 18:21	MJC
Endrin [1]	ND	0.010	mg/Kg dry	1		SW-846 8081B	1/25/13	1/28/13 18:21	MJC
Endrin aldehyde [1]	ND	0.010	mg/Kg dry	1		SW-846 8081B	1/25/13	1/28/13 18:21	MJC
Endrin ketone [1]	ND	0.010	mg/Kg dry	1		SW-846 8081B	1/25/13	1/28/13 18:21	MJC
Heptachlor [1]	ND	0.0065	mg/Kg dry	1		SW-846 8081B	1/25/13	1/28/13 18:21	MJC
Heptachlor epoxide [1]	ND	0.0065	mg/Kg dry	1		SW-846 8081B	1/25/13	1/28/13 18:21	MJC
Hexachlorobenzene [1]	ND	0.0078	mg/Kg dry	1		SW-846 8081B	1/25/13	1/28/13 18:21	MJC
Methoxychlor [1]	ND	0.065	mg/Kg dry	1		SW-846 8081B	1/25/13	1/28/13 18:21	MJC
Toxaphene [1]	ND	0.13	mg/Kg dry	1		SW-846 8081B	1/25/13	1/28/13 18:21	MJC
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	43.2	30-150							
Decachlorobiphenyl [2]	55.2	30-150							
Tetrachloro-m-xylene [1]	61.6	30-150							
Tetrachloro-m-xylene [2]	58.9	30-150							



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

Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273787

Sampled: 1/24/2013 13:59

Sample ID: 13A0643-06

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	77.3		% Wt	1		SM 2540G	1/29/13	1/30/13 9:24	RH



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273786

Sampled: 1/24/2013 13:52

Sample ID: 13A0643-07

Sample Matrix: Soil

Sample Flags: PR-03

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	22	3.3	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 2:19	MFF
Acrylonitrile	ND	0.33	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 2:19	MFF
Benzene	ND	0.067	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 2:19	MFF
Bromobenzene	ND	0.067	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 2:19	MFF
Bromodichloromethane	ND	0.13	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 2:19	MFF
Bromoform	ND	0.067	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 2:19	MFF
Bromomethane	ND	0.13	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 2:19	MFF
2-Butanone (MEK)	ND	1.3	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 2:19	MFF
n-Butylbenzene	ND	0.067	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 2:19	MFF
sec-Butylbenzene	ND	0.067	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 2:19	MFF
tert-Butylbenzene	ND	0.067	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 2:19	MFF
Carbon Disulfide	ND	0.20	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 2:19	MFF
Carbon Tetrachloride	ND	0.067	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 2:19	MFF
Chlorobenzene	ND	0.067	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 2:19	MFF
Chlorodibromomethane	ND	0.033	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 2:19	MFF
Chloroethane	ND	0.13	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 2:19	MFF
Chloroform	ND	0.13	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 2:19	MFF
Chloromethane	ND	0.13	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 2:19	MFF
2-Chlorotoluene	ND	0.067	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 2:19	MFF
4-Chlorotoluene	ND	0.067	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 2:19	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.33	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 2:19	MFF
1,2-Dibromoethane (EDB)	ND	0.067	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 2:19	MFF
Dibromomethane	ND	0.067	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 2:19	MFF
1,2-Dichlorobenzene	ND	0.067	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 2:19	MFF
1,3-Dichlorobenzene	ND	0.067	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 2:19	MFF
1,4-Dichlorobenzene	ND	0.067	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 2:19	MFF
trans-1,4-Dichloro-2-butene	ND	0.13	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 2:19	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.13	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 2:19	MFF
1,1-Dichloroethane	ND	0.067	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 2:19	MFF
1,2-Dichloroethane	ND	0.067	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 2:19	MFF
1,1-Dichloroethylene	ND	0.067	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 2:19	MFF
cis-1,2-Dichloroethylene	ND	0.067	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 2:19	MFF
trans-1,2-Dichloroethylene	ND	0.067	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 2:19	MFF
1,2-Dichloropropane	ND	0.067	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 2:19	MFF
1,3-Dichloropropane	ND	0.033	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 2:19	MFF
2,2-Dichloropropane	ND	0.067	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 2:19	MFF
1,1-Dichloropropene	ND	0.13	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 2:19	MFF
cis-1,3-Dichloropropene	ND	0.033	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 2:19	MFF
trans-1,3-Dichloropropene	ND	0.033	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 2:19	MFF
Ethylbenzene	ND	0.067	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 2:19	MFF
Hexachlorobutadiene	ND	0.067	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 2:19	MFF
2-Hexanone (MBK)	ND	0.67	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 2:19	MFF
Isopropylbenzene (Cumene)	ND	0.067	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 2:19	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.067	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 2:19	MFF



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273786

Sampled: 1/24/2013 13:52

Sample ID: 13A0643-07

Sample Matrix: Soil

Sample Flags: PR-03

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.067	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 2:19	MFF
Methylene Chloride	ND	0.33	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 2:19	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.67	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 2:19	MFF
Naphthalene	ND	0.13	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 2:19	MFF
n-Propylbenzene	ND	0.067	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 2:19	MFF
Styrene	ND	0.067	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 2:19	MFF
1,1,1,2-Tetrachloroethane	ND	0.067	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 2:19	MFF
1,1,2,2-Tetrachloroethane	ND	0.033	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 2:19	MFF
Tetrachloroethylene	ND	0.067	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 2:19	MFF
Tetrahydrofuran	ND	0.67	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 2:19	MFF
Toluene	ND	0.067	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 2:19	MFF
1,2,3-Trichlorobenzene	ND	0.33	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 2:19	MFF
1,2,4-Trichlorobenzene	ND	0.067	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 2:19	MFF
1,1,1-Trichloroethane	ND	0.067	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 2:19	MFF
1,1,2-Trichloroethane	ND	0.067	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 2:19	MFF
Trichloroethylene	ND	0.067	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 2:19	MFF
Trichlorofluoromethane (Freon 11)	ND	0.13	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 2:19	MFF
1,2,3-Trichloropropane	ND	0.13	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 2:19	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.067	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 2:19	MFF
1,2,4-Trimethylbenzene	ND	0.067	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 2:19	MFF
1,3,5-Trimethylbenzene	ND	0.067	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 2:19	MFF
Vinyl Chloride	ND	0.13	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 2:19	MFF
m+p Xylene	ND	0.13	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 2:19	MFF
o-Xylene	ND	0.067	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 2:19	MFF
Surrogates	% Recovery	Recovery Limits	Flag						
1,2-Dichloroethane-d4	102	70-130							
Toluene-d8	103	70-130							
4-Bromofluorobenzene	95.3	70-130							



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273786

Sampled: 1/24/2013 13:52

Sample ID: 13A0643-07

Sample Matrix: Soil

## Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/25/13	1/28/13 13:39	CMR
Acenaphthylene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/25/13	1/28/13 13:39	CMR
Anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/25/13	1/28/13 13:39	CMR
Benzo(a)anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/25/13	1/28/13 13:39	CMR
Benzo(a)pyrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/25/13	1/28/13 13:39	CMR
Benzo(b)fluoranthene	0.21	0.20	mg/Kg dry	1		SW-846 8270D	1/25/13	1/28/13 13:39	CMR
Benzo(g,h,i)perylene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/25/13	1/28/13 13:39	CMR
Benzo(k)fluoranthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/25/13	1/28/13 13:39	CMR
Chrysene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/25/13	1/28/13 13:39	CMR
Dibenz(a,h)anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/25/13	1/28/13 13:39	CMR
Fluoranthene	0.25	0.20	mg/Kg dry	1		SW-846 8270D	1/25/13	1/28/13 13:39	CMR
Fluorene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/25/13	1/28/13 13:39	CMR
Indeno(1,2,3-cd)pyrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/25/13	1/28/13 13:39	CMR
2-Methylnaphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/25/13	1/28/13 13:39	CMR
Naphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/25/13	1/28/13 13:39	CMR
Phenanthrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/25/13	1/28/13 13:39	CMR
Pyrene	0.29	0.20	mg/Kg dry	1		SW-846 8270D	1/25/13	1/28/13 13:39	CMR
Surrogates	% Recovery	Recovery Limits	Flag						
Nitrobenzene-d5	56.2	30-130							
2-Fluorobiphenyl	57.4	30-130							
Terphenyl-d14	66.4	30-130							



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273786

Sampled: 1/24/2013 13:52

Sample ID: 13A0643-07

Sample Matrix: Soil

## Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.023	mg/Kg dry	1		SW-846 8081B	1/25/13	1/29/13 22:11	JMB
Aldrin [1]	ND	0.0058	mg/Kg dry	1		SW-846 8081B	1/25/13	1/29/13 22:11	JMB
alpha-BHC [1]	ND	0.0058	mg/Kg dry	1		SW-846 8081B	1/25/13	1/29/13 22:11	JMB
beta-BHC [1]	ND	0.0058	mg/Kg dry	1		SW-846 8081B	1/25/13	1/29/13 22:11	JMB
delta-BHC [1]	ND	0.0058	mg/Kg dry	1		SW-846 8081B	1/25/13	1/29/13 22:11	JMB
gamma-BHC (Lindane) [1]	ND	0.0023	mg/Kg dry	1		SW-846 8081B	1/25/13	1/29/13 22:11	JMB
Chlordane [1]	ND	0.023	mg/Kg dry	1		SW-846 8081B	1/25/13	1/29/13 22:11	JMB
4,4'-DDD [1]	ND	0.0046	mg/Kg dry	1	V-20	SW-846 8081B	1/25/13	1/29/13 22:11	JMB
4,4'-DDE [1]	ND	0.0046	mg/Kg dry	1		SW-846 8081B	1/25/13	1/29/13 22:11	JMB
4,4'-DDT [1]	ND	0.0046	mg/Kg dry	1		SW-846 8081B	1/25/13	1/29/13 22:11	JMB
Dieldrin [1]	ND	0.0046	mg/Kg dry	1		SW-846 8081B	1/25/13	1/29/13 22:11	JMB
Endosulfan I [1]	ND	0.0058	mg/Kg dry	1		SW-846 8081B	1/25/13	1/29/13 22:11	JMB
Endosulfan II [1]	ND	0.0092	mg/Kg dry	1		SW-846 8081B	1/25/13	1/29/13 22:11	JMB
Endosulfan sulfate [1]	ND	0.0092	mg/Kg dry	1		SW-846 8081B	1/25/13	1/29/13 22:11	JMB
Endrin [1]	ND	0.0092	mg/Kg dry	1		SW-846 8081B	1/25/13	1/29/13 22:11	JMB
Endrin aldehyde [1]	ND	0.0092	mg/Kg dry	1		SW-846 8081B	1/25/13	1/29/13 22:11	JMB
Endrin ketone [1]	ND	0.0092	mg/Kg dry	1		SW-846 8081B	1/25/13	1/29/13 22:11	JMB
Heptachlor [1]	ND	0.0058	mg/Kg dry	1		SW-846 8081B	1/25/13	1/29/13 22:11	JMB
Heptachlor epoxide [1]	ND	0.0058	mg/Kg dry	1		SW-846 8081B	1/25/13	1/29/13 22:11	JMB
Hexachlorobenzene [1]	ND	0.0069	mg/Kg dry	1		SW-846 8081B	1/25/13	1/29/13 22:11	JMB
Methoxychlor [1]	ND	0.058	mg/Kg dry	1		SW-846 8081B	1/25/13	1/29/13 22:11	JMB
Toxaphene [1]	ND	0.12	mg/Kg dry	1		SW-846 8081B	1/25/13	1/29/13 22:11	JMB
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	34.0	30-150							
Decachlorobiphenyl [2]	45.4	30-150							
Tetrachloro-m-xylene [1]	42.6	30-150							
Tetrachloro-m-xylene [2]	41.4	30-150							



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273786

Sampled: 1/24/2013 13:52

Sample ID: 13A0643-07

Sample Matrix: Soil

# Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	2.8	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 16:34	KSH
Barium	46	2.8	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 16:34	KSH
Cadmium	0.29	0.28	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 16:34	KSH
Chromium	13	0.55	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 16:34	KSH
Copper	20	0.55	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 16:34	KSH
Lead	260	0.83	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 16:34	KSH
Mercury	0.048	0.030	mg/Kg dry	1		SW-846 7471B	1/25/13	1/29/13 13:09	AMP
Nickel	6.9	0.55	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 16:34	KSH
Selenium	ND	5.5	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 16:34	KSH
Silver	ND	0.55	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 16:34	KSH
Zinc	73	1.1	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 16:34	KSH



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273786

Sampled: 1/24/2013 13:52

Sample ID: 13A0643-07

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.5		% Wt	1		SM 2540G	1/29/13	1/30/13 9:24	RH



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273785

Sampled: 1/24/2013 13:45

Sample ID: 13A0643-08

Sample Matrix: Soil

## Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.023	mg/Kg dry	1		SW-846 8081B	1/25/13	1/28/13 18:41	MJC
Aldrin [1]	ND	0.0057	mg/Kg dry	1		SW-846 8081B	1/25/13	1/28/13 18:41	MJC
alpha-BHC [1]	ND	0.0057	mg/Kg dry	1		SW-846 8081B	1/25/13	1/28/13 18:41	MJC
beta-BHC [1]	ND	0.0057	mg/Kg dry	1		SW-846 8081B	1/25/13	1/28/13 18:41	MJC
delta-BHC [1]	ND	0.0057	mg/Kg dry	1		SW-846 8081B	1/25/13	1/28/13 18:41	MJC
gamma-BHC (Lindane) [1]	ND	0.0023	mg/Kg dry	1		SW-846 8081B	1/25/13	1/28/13 18:41	MJC
Chlordane [2]	ND	0.023	mg/Kg dry	1		SW-846 8081B	1/25/13	1/28/13 18:41	MJC
4,4'-DDD [1]	ND	0.0046	mg/Kg dry	1		SW-846 8081B	1/25/13	1/28/13 18:41	MJC
4,4'-DDE [1]	ND	0.0046	mg/Kg dry	1		SW-846 8081B	1/25/13	1/28/13 18:41	MJC
4,4'-DDT [1]	ND	0.0046	mg/Kg dry	1		SW-846 8081B	1/25/13	1/28/13 18:41	MJC
Dieldrin [1]	ND	0.0046	mg/Kg dry	1		SW-846 8081B	1/25/13	1/28/13 18:41	MJC
Endosulfan I [1]	ND	0.0057	mg/Kg dry	1		SW-846 8081B	1/25/13	1/28/13 18:41	MJC
Endosulfan II [1]	ND	0.0092	mg/Kg dry	1		SW-846 8081B	1/25/13	1/28/13 18:41	MJC
Endosulfan sulfate [1]	ND	0.0092	mg/Kg dry	1		SW-846 8081B	1/25/13	1/28/13 18:41	MJC
Endrin [1]	ND	0.0092	mg/Kg dry	1		SW-846 8081B	1/25/13	1/28/13 18:41	MJC
Endrin aldehyde [1]	ND	0.0092	mg/Kg dry	1		SW-846 8081B	1/25/13	1/28/13 18:41	MJC
Endrin ketone [1]	ND	0.0092	mg/Kg dry	1		SW-846 8081B	1/25/13	1/28/13 18:41	MJC
Heptachlor [1]	ND	0.0057	mg/Kg dry	1		SW-846 8081B	1/25/13	1/28/13 18:41	MJC
Heptachlor epoxide [1]	ND	0.0057	mg/Kg dry	1		SW-846 8081B	1/25/13	1/28/13 18:41	MJC
Hexachlorobenzene [1]	ND	0.0069	mg/Kg dry	1		SW-846 8081B	1/25/13	1/28/13 18:41	MJC
Methoxychlor [1]	ND	0.057	mg/Kg dry	1		SW-846 8081B	1/25/13	1/28/13 18:41	MJC
Toxaphene [1]	ND	0.11	mg/Kg dry	1		SW-846 8081B	1/25/13	1/28/13 18:41	MJC
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	45.0	30-150							
Decachlorobiphenyl [2]	57.3	30-150							
Tetrachloro-m-xylene [1]	62.7	30-150							
Tetrachloro-m-xylene [2]	60.5	30-150							



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

Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273785

Sampled: 1/24/2013 13:45

Sample ID: 13A0643-08

Sample Matrix: Soil

#### Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	15	0.86	mg/Kg dry	1	M-12	SW-846 6010C	1/25/13	1/30/13 16:05	KSH



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273785

Sampled: 1/24/2013 13:45

Sample ID: 13A0643-08

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.8		% Wt	1		SM 2540G	1/29/13	1/30/13 9:24	RH



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273784

Sampled: 1/24/2013 13:35

Sample ID: 13A0643-09

Sample Matrix: Soil

## Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.023	mg/Kg dry	1		SW-846 8081B	1/25/13	1/29/13 22:31	JMB
Aldrin [1]	ND	0.0059	mg/Kg dry	1		SW-846 8081B	1/25/13	1/29/13 22:31	JMB
alpha-BHC [1]	ND	0.0059	mg/Kg dry	1		SW-846 8081B	1/25/13	1/29/13 22:31	JMB
beta-BHC [1]	ND	0.0059	mg/Kg dry	1		SW-846 8081B	1/25/13	1/29/13 22:31	JMB
delta-BHC [1]	ND	0.0059	mg/Kg dry	1		SW-846 8081B	1/25/13	1/29/13 22:31	JMB
gamma-BHC (Lindane) [1]	ND	0.0023	mg/Kg dry	1		SW-846 8081B	1/25/13	1/29/13 22:31	JMB
Chlordane [1]	ND	0.023	mg/Kg dry	1		SW-846 8081B	1/25/13	1/29/13 22:31	JMB
4,4'-DDD [1]	ND	0.0047	mg/Kg dry	1	V-20	SW-846 8081B	1/25/13	1/29/13 22:31	JMB
4,4'-DDE [1]	ND	0.0047	mg/Kg dry	1		SW-846 8081B	1/25/13	1/29/13 22:31	JMB
4,4'-DDT [1]	ND	0.0047	mg/Kg dry	1		SW-846 8081B	1/25/13	1/29/13 22:31	JMB
Dieldrin [1]	ND	0.0047	mg/Kg dry	1		SW-846 8081B	1/25/13	1/29/13 22:31	JMB
Endosulfan I [1]	ND	0.0059	mg/Kg dry	1		SW-846 8081B	1/25/13	1/29/13 22:31	JMB
Endosulfan II [1]	ND	0.0094	mg/Kg dry	1		SW-846 8081B	1/25/13	1/29/13 22:31	JMB
Endosulfan sulfate [1]	ND	0.0094	mg/Kg dry	1		SW-846 8081B	1/25/13	1/29/13 22:31	JMB
Endrin [1]	ND	0.0094	mg/Kg dry	1		SW-846 8081B	1/25/13	1/29/13 22:31	JMB
Endrin aldehyde [1]	ND	0.0094	mg/Kg dry	1		SW-846 8081B	1/25/13	1/29/13 22:31	JMB
Endrin ketone [1]	ND	0.0094	mg/Kg dry	1		SW-846 8081B	1/25/13	1/29/13 22:31	JMB
Heptachlor [1]	ND	0.0059	mg/Kg dry	1		SW-846 8081B	1/25/13	1/29/13 22:31	JMB
Heptachlor epoxide [1]	ND	0.0059	mg/Kg dry	1		SW-846 8081B	1/25/13	1/29/13 22:31	JMB
Hexachlorobenzene [1]	ND	0.0070	mg/Kg dry	1		SW-846 8081B	1/25/13	1/29/13 22:31	JMB
Methoxychlor [1]	ND	0.059	mg/Kg dry	1		SW-846 8081B	1/25/13	1/29/13 22:31	JMB
Toxaphene [1]	ND	0.12	mg/Kg dry	1		SW-846 8081B	1/25/13	1/29/13 22:31	JMB
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	40.9	30-150							
Decachlorobiphenyl [2]	64.6	30-150							
Tetrachloro-m-xylene [1]	43.5	30-150							
Tetrachloro-m-xylene [2]	43.0	30-150							



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

Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273784

Sampled: 1/24/2013 13:35

Sample ID: 13A0643-09

Sample Matrix: Soil

**Metals Analyses (Total)**

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	470	0.91	mg/Kg dry	1	M-12	SW-846 6010C	1/25/13	1/30/13 16:11	KSH



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

Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273784

Sampled: 1/24/2013 13:35

Sample ID: 13A0643-09

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	82.0		% Wt	1		SM 2540G	1/29/13	1/30/13 9:24	RH



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1270649

Sampled: 1/24/2013 13:10

Sample ID: 13A0643-11

Sample Matrix: Soil

Sample Flags: PR-03

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	22	3.2	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 2:49	MFF
Acrylonitrile	ND	0.32	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 2:49	MFF
Benzene	ND	0.064	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 2:49	MFF
Bromobenzene	ND	0.064	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 2:49	MFF
Bromodichloromethane	ND	0.13	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 2:49	MFF
Bromoform	ND	0.064	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 2:49	MFF
Bromomethane	ND	0.13	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 2:49	MFF
2-Butanone (MEK)	ND	1.3	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 2:49	MFF
n-Butylbenzene	ND	0.064	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 2:49	MFF
sec-Butylbenzene	ND	0.064	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 2:49	MFF
tert-Butylbenzene	ND	0.064	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 2:49	MFF
Carbon Disulfide	ND	0.19	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 2:49	MFF
Carbon Tetrachloride	ND	0.064	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 2:49	MFF
Chlorobenzene	ND	0.064	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 2:49	MFF
Chlorodibromomethane	ND	0.032	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 2:49	MFF
Chloroethane	ND	0.13	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 2:49	MFF
Chloroform	ND	0.13	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 2:49	MFF
Chloromethane	ND	0.13	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 2:49	MFF
2-Chlorotoluene	ND	0.064	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 2:49	MFF
4-Chlorotoluene	ND	0.064	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 2:49	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.32	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 2:49	MFF
1,2-Dibromoethane (EDB)	ND	0.064	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 2:49	MFF
Dibromomethane	ND	0.064	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 2:49	MFF
1,2-Dichlorobenzene	ND	0.064	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 2:49	MFF
1,3-Dichlorobenzene	ND	0.064	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 2:49	MFF
1,4-Dichlorobenzene	ND	0.064	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 2:49	MFF
trans-1,4-Dichloro-2-butene	ND	0.13	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 2:49	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.13	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 2:49	MFF
1,1-Dichloroethane	ND	0.064	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 2:49	MFF
1,2-Dichloroethane	ND	0.064	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 2:49	MFF
1,1-Dichloroethylene	ND	0.064	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 2:49	MFF
cis-1,2-Dichloroethylene	ND	0.064	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 2:49	MFF
trans-1,2-Dichloroethylene	ND	0.064	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 2:49	MFF
1,2-Dichloropropane	ND	0.064	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 2:49	MFF
1,3-Dichloropropane	ND	0.032	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 2:49	MFF
2,2-Dichloropropane	ND	0.064	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 2:49	MFF
1,1-Dichloropropene	ND	0.13	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 2:49	MFF
cis-1,3-Dichloropropene	ND	0.032	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 2:49	MFF
trans-1,3-Dichloropropene	ND	0.032	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 2:49	MFF
Ethylbenzene	ND	0.064	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 2:49	MFF
Hexachlorobutadiene	ND	0.064	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 2:49	MFF
2-Hexanone (MBK)	ND	0.64	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 2:49	MFF
Isopropylbenzene (Cumene)	ND	0.064	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 2:49	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.064	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 2:49	MFF



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1270649

Sampled: 1/24/2013 13:10

Sample ID: 13A0643-11

Sample Matrix: Soil

Sample Flags: PR-03

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.064	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 2:49	MFF
Methylene Chloride	ND	0.32	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 2:49	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.64	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 2:49	MFF
Naphthalene	ND	0.13	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 2:49	MFF
n-Propylbenzene	ND	0.064	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 2:49	MFF
Styrene	ND	0.064	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 2:49	MFF
1,1,1,2-Tetrachloroethane	ND	0.064	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 2:49	MFF
1,1,2,2-Tetrachloroethane	ND	0.032	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 2:49	MFF
Tetrachloroethylene	ND	0.064	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 2:49	MFF
Tetrahydrofuran	ND	0.64	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 2:49	MFF
Toluene	ND	0.064	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 2:49	MFF
1,2,3-Trichlorobenzene	ND	0.32	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 2:49	MFF
1,2,4-Trichlorobenzene	ND	0.064	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 2:49	MFF
1,1,1-Trichloroethane	ND	0.064	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 2:49	MFF
1,1,2-Trichloroethane	ND	0.064	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 2:49	MFF
Trichloroethylene	ND	0.064	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 2:49	MFF
Trichlorofluoromethane (Freon 11)	ND	0.13	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 2:49	MFF
1,2,3-Trichloropropane	ND	0.13	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 2:49	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.064	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 2:49	MFF
1,2,4-Trimethylbenzene	ND	0.064	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 2:49	MFF
1,3,5-Trimethylbenzene	ND	0.064	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 2:49	MFF
Vinyl Chloride	ND	0.13	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 2:49	MFF
m+p Xylene	ND	0.13	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 2:49	MFF
o-Xylene	ND	0.064	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 2:49	MFF
Surrogates	% Recovery	Recovery Limits	Flag						
1,2-Dichloroethane-d4	97.7	70-130							
Toluene-d8	101	70-130							
4-Bromofluorobenzene	94.9	70-130							



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1270649

Sampled: 1/24/2013 13:10

Sample ID: 13A0643-11

Sample Matrix: Soil

## Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	1/25/13	1/28/13 15:23	CMR
Acenaphthylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	1/25/13	1/28/13 15:23	CMR
Anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	1/25/13	1/28/13 15:23	CMR
Benzo(a)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	1/25/13	1/28/13 15:23	CMR
Benzo(a)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	1/25/13	1/28/13 15:23	CMR
Benzo(b)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	1/25/13	1/28/13 15:23	CMR
Benzo(g,h,i)perylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	1/25/13	1/28/13 15:23	CMR
Benzo(k)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	1/25/13	1/28/13 15:23	CMR
Chrysene	ND	0.18	mg/Kg dry	1		SW-846 8270D	1/25/13	1/28/13 15:23	CMR
Dibenz(a,h)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	1/25/13	1/28/13 15:23	CMR
Fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	1/25/13	1/28/13 15:23	CMR
Fluorene	ND	0.18	mg/Kg dry	1		SW-846 8270D	1/25/13	1/28/13 15:23	CMR
Indeno(1,2,3-cd)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	1/25/13	1/28/13 15:23	CMR
2-Methylnaphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	1/25/13	1/28/13 15:23	CMR
Naphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	1/25/13	1/28/13 15:23	CMR
Phenanthrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	1/25/13	1/28/13 15:23	CMR
Pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	1/25/13	1/28/13 15:23	CMR
Surrogates	% Recovery		Recovery Limits		Flag				
Nitrobenzene-d5	74.6		30-130				1/28/13 15:23		
2-Fluorobiphenyl	82.0		30-130				1/28/13 15:23		
Terphenyl-d14	102		30-130				1/28/13 15:23		



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1270649

Sampled: 1/24/2013 13:10

Sample ID: 13A0643-11

Sample Matrix: Soil

## Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.021	mg/Kg dry	1		SW-846 8081B	1/25/13	1/28/13 19:01	MJC
Aldrin [1]	ND	0.0052	mg/Kg dry	1		SW-846 8081B	1/25/13	1/28/13 19:01	MJC
alpha-BHC [1]	ND	0.0052	mg/Kg dry	1		SW-846 8081B	1/25/13	1/28/13 19:01	MJC
beta-BHC [1]	ND	0.0052	mg/Kg dry	1		SW-846 8081B	1/25/13	1/28/13 19:01	MJC
delta-BHC [1]	ND	0.0052	mg/Kg dry	1		SW-846 8081B	1/25/13	1/28/13 19:01	MJC
gamma-BHC (Lindane) [1]	ND	0.0021	mg/Kg dry	1		SW-846 8081B	1/25/13	1/28/13 19:01	MJC
Chlordane [2]	ND	0.021	mg/Kg dry	1		SW-846 8081B	1/25/13	1/28/13 19:01	MJC
4,4'-DDD [1]	ND	0.0042	mg/Kg dry	1		SW-846 8081B	1/25/13	1/28/13 19:01	MJC
4,4'-DDE [1]	ND	0.0042	mg/Kg dry	1		SW-846 8081B	1/25/13	1/28/13 19:01	MJC
4,4'-DDT [1]	ND	0.0042	mg/Kg dry	1		SW-846 8081B	1/25/13	1/28/13 19:01	MJC
Dieldrin [1]	ND	0.0042	mg/Kg dry	1		SW-846 8081B	1/25/13	1/28/13 19:01	MJC
Endosulfan I [1]	ND	0.0052	mg/Kg dry	1		SW-846 8081B	1/25/13	1/28/13 19:01	MJC
Endosulfan II [1]	ND	0.0084	mg/Kg dry	1		SW-846 8081B	1/25/13	1/28/13 19:01	MJC
Endosulfan sulfate [1]	ND	0.0084	mg/Kg dry	1		SW-846 8081B	1/25/13	1/28/13 19:01	MJC
Endrin [1]	ND	0.0084	mg/Kg dry	1		SW-846 8081B	1/25/13	1/28/13 19:01	MJC
Endrin aldehyde [1]	ND	0.0084	mg/Kg dry	1		SW-846 8081B	1/25/13	1/28/13 19:01	MJC
Endrin ketone [1]	ND	0.0084	mg/Kg dry	1		SW-846 8081B	1/25/13	1/28/13 19:01	MJC
Heptachlor [1]	ND	0.0052	mg/Kg dry	1		SW-846 8081B	1/25/13	1/28/13 19:01	MJC
Heptachlor epoxide [1]	ND	0.0052	mg/Kg dry	1		SW-846 8081B	1/25/13	1/28/13 19:01	MJC
Hexachlorobenzene [1]	ND	0.0063	mg/Kg dry	1		SW-846 8081B	1/25/13	1/28/13 19:01	MJC
Methoxychlor [1]	ND	0.052	mg/Kg dry	1		SW-846 8081B	1/25/13	1/28/13 19:01	MJC
Toxaphene [1]	ND	0.10	mg/Kg dry	1		SW-846 8081B	1/25/13	1/28/13 19:01	MJC
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	74.4	30-150							
Decachlorobiphenyl [2]	75.1	30-150							
Tetrachloro-m-xylene [1]	79.9	30-150							
Tetrachloro-m-xylene [2]	75.6	30-150							



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1270649

Sampled: 1/24/2013 13:10

Sample ID: 13A0643-11

Sample Matrix: Soil

### Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 13:04	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 13:04	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 13:04	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 13:04	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 13:04	JMB
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 13:04	JMB
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 13:04	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 13:04	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 13:04	JMB
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	83.5	30-150							
Decachlorobiphenyl [2]	85.1	30-150							
Tetrachloro-m-xylene [1]	75.8	30-150							
Tetrachloro-m-xylene [2]	77.3	30-150							



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

Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1270649

Sampled: 1/24/2013 13:10

Sample ID: 13A0643-11

Sample Matrix: Soil

#### Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	16	11	mg/Kg dry	1		CTDEP ETPH	1/30/13	1/31/13 14:29	SCS
Surrogates	% Recovery		Recovery Limits		Flag				
o-Terphenyl	79.0		50-150			1/31/13 14:29			



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1270649

Sampled: 1/24/2013 13:10

Sample ID: 13A0643-11

Sample Matrix: Soil

**Metals Analyses (Total)**

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	2.6	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 16:39	KSH
Barium	46	2.6	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 16:39	KSH
Cadmium	ND	0.26	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 16:39	KSH
Chromium	16	0.52	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 16:39	KSH
Copper	13	0.52	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 16:39	KSH
Lead	4.5	0.78	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 16:39	KSH
Mercury	ND	0.027	mg/Kg dry	1		SW-846 7471B	1/25/13	1/29/13 13:11	AMP
Nickel	11	0.52	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 16:39	KSH
Selenium	ND	5.2	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 16:39	KSH
Silver	ND	0.52	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 16:39	KSH
Zinc	25	1.0	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 16:39	KSH



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1270649

Sampled: 1/24/2013 13:10

Sample ID: 13A0643-11

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	92.6		% Wt	1		SM 2540G	1/31/13	2/1/13 7:48	RH



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273766

Sampled: 1/24/2013 11:38

Sample ID: 13A0643-12

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.11	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 9:32	MFF
Acrylonitrile	ND	0.0065	mg/Kg dry	1	V-16	SW-846 8260C	1/25/13	1/29/13 9:32	MFF
Benzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 9:32	MFF
Bromobenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 9:32	MFF
Bromodichloromethane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 9:32	MFF
Bromoform	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 9:32	MFF
Bromomethane	ND	0.011	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 9:32	MFF
2-Butanone (MEK)	ND	0.043	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 9:32	MFF
n-Butylbenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 9:32	MFF
sec-Butylbenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 9:32	MFF
tert-Butylbenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 9:32	MFF
Carbon Disulfide	ND	0.0065	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 9:32	MFF
Carbon Tetrachloride	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 9:32	MFF
Chlorobenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 9:32	MFF
Chlorodibromomethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 9:32	MFF
Chloroethane	ND	0.022	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 9:32	MFF
Chloroform	ND	0.0043	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 9:32	MFF
Chloromethane	ND	0.011	mg/Kg dry	1	MS-07	SW-846 8260C	1/25/13	1/29/13 9:32	MFF
2-Chlorotoluene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 9:32	MFF
4-Chlorotoluene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 9:32	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0022	mg/Kg dry	1	V-16	SW-846 8260C	1/25/13	1/29/13 9:32	MFF
1,2-Dibromoethane (EDB)	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 9:32	MFF
Dibromomethane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 9:32	MFF
1,2-Dichlorobenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 9:32	MFF
1,3-Dichlorobenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 9:32	MFF
1,4-Dichlorobenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 9:32	MFF
trans-1,4-Dichloro-2-butene	ND	0.0043	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 9:32	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.022	mg/Kg dry	1	MS-07	SW-846 8260C	1/25/13	1/29/13 9:32	MFF
1,1-Dichloroethane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 9:32	MFF
1,2-Dichloroethane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 9:32	MFF
1,1-Dichloroethylene	ND	0.0043	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 9:32	MFF
cis-1,2-Dichloroethylene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 9:32	MFF
trans-1,2-Dichloroethylene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 9:32	MFF
1,2-Dichloropropane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 9:32	MFF
1,3-Dichloropropane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 9:32	MFF
2,2-Dichloropropane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 9:32	MFF
1,1-Dichloropropene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 9:32	MFF
cis-1,3-Dichloropropene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 9:32	MFF
trans-1,3-Dichloropropene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 9:32	MFF
Ethylbenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 9:32	MFF
Hexachlorobutadiene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 9:32	MFF
2-Hexanone (MBK)	ND	0.022	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 9:32	MFF
Isopropylbenzene (Cumene)	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 9:32	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 9:32	MFF



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273766

Sampled: 1/24/2013 11:38

Sample ID: 13A0643-12

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0043	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 9:32	MFF
Methylene Chloride	ND	0.022	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 9:32	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.022	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 9:32	MFF
Naphthalene	ND	0.0043	mg/Kg dry	1	MS-07	SW-846 8260C	1/25/13	1/29/13 9:32	MFF
n-Propylbenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 9:32	MFF
Styrene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 9:32	MFF
1,1,1,2-Tetrachloroethane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 9:32	MFF
1,1,2,2-Tetrachloroethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 9:32	MFF
Tetrachloroethylene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 9:32	MFF
Tetrahydrofuran	ND	0.011	mg/Kg dry	1	V-16	SW-846 8260C	1/25/13	1/29/13 9:32	MFF
Toluene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 9:32	MFF
1,2,3-Trichlorobenzene	ND	0.0022	mg/Kg dry	1	MS-07	SW-846 8260C	1/25/13	1/29/13 9:32	MFF
1,2,4-Trichlorobenzene	ND	0.0022	mg/Kg dry	1	MS-07	SW-846 8260C	1/25/13	1/29/13 9:32	MFF
1,1,1-Trichloroethane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 9:32	MFF
1,1,2-Trichloroethane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 9:32	MFF
Trichloroethylene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 9:32	MFF
Trichlorofluoromethane (Freon 11)	ND	0.011	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 9:32	MFF
1,2,3-Trichloropropane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 9:32	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.011	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 9:32	MFF
1,2,4-Trimethylbenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 9:32	MFF
1,3,5-Trimethylbenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 9:32	MFF
Vinyl Chloride	ND	0.011	mg/Kg dry	1	MS-07	SW-846 8260C	1/25/13	1/29/13 9:32	MFF
m+p Xylene	ND	0.0043	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 9:32	MFF
o-Xylene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 9:32	MFF
Surrogates	% Recovery	Recovery Limits	Flag						
1,2-Dichloroethane-d4	106	70-130							
Toluene-d8	99.5	70-130							
4-Bromofluorobenzene	91.1	70-130							



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273766

Sampled: 1/24/2013 11:38

Sample ID: 13A0643-12

Sample Matrix: Soil

## Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/25/13	1/28/13 14:11	CMR
Acenaphthylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/25/13	1/28/13 14:11	CMR
Anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/25/13	1/28/13 14:11	CMR
Benzo(a)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/25/13	1/28/13 14:11	CMR
Benzo(a)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/25/13	1/28/13 14:11	CMR
Benzo(b)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/25/13	1/28/13 14:11	CMR
Benzo(g,h,i)perylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/25/13	1/28/13 14:11	CMR
Benzo(k)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/25/13	1/28/13 14:11	CMR
Chrysene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/25/13	1/28/13 14:11	CMR
Dibenz(a,h)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/25/13	1/28/13 14:11	CMR
Fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/25/13	1/28/13 14:11	CMR
Fluorene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/25/13	1/28/13 14:11	CMR
Indeno(1,2,3-cd)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/25/13	1/28/13 14:11	CMR
2-Methylnaphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/25/13	1/28/13 14:11	CMR
Naphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/25/13	1/28/13 14:11	CMR
Phenanthrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/25/13	1/28/13 14:11	CMR
Pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/25/13	1/28/13 14:11	CMR
Surrogates	% Recovery	Recovery Limits	Flag						
Nitrobenzene-d5	73.7	30-130							
2-Fluorobiphenyl	74.2	30-130							
Terphenyl-d14	94.4	30-130							



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

Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273766

Sampled: 1/24/2013 11:38

Sample ID: 13A0643-12

Sample Matrix: Soil

#### Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	38	11	mg/Kg dry	1		CTDEP ETPH	1/30/13	1/31/13 15:04	SCS
Surrogates	% Recovery		Recovery Limits		Flag				
o-Terphenyl	79.7		50-150			1/31/13 15:04			



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273766

Sampled: 1/24/2013 11:38

Sample ID: 13A0643-12

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	90.1		% Wt	1		SM 2540G	1/29/13	1/30/13 9:24	RH



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273767

Sampled: 1/24/2013 11:38

Sample ID: 13A0643-13

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.11	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 9:59	MFF
Acrylonitrile	ND	0.0068	mg/Kg dry	1	V-16	SW-846 8260C	1/25/13	1/29/13 9:59	MFF
Benzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 9:59	MFF
Bromobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 9:59	MFF
Bromodichloromethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 9:59	MFF
Bromoform	ND	0.0023	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 9:59	MFF
Bromomethane	ND	0.011	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 9:59	MFF
2-Butanone (MEK)	ND	0.045	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 9:59	MFF
n-Butylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 9:59	MFF
sec-Butylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 9:59	MFF
tert-Butylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 9:59	MFF
Carbon Disulfide	ND	0.0068	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 9:59	MFF
Carbon Tetrachloride	ND	0.0023	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 9:59	MFF
Chlorobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 9:59	MFF
Chlorodibromomethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 9:59	MFF
Chloroethane	ND	0.023	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 9:59	MFF
Chloroform	ND	0.0045	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 9:59	MFF
Chloromethane	ND	0.011	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 9:59	MFF
2-Chlorotoluene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 9:59	MFF
4-Chlorotoluene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 9:59	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0023	mg/Kg dry	1	V-16	SW-846 8260C	1/25/13	1/29/13 9:59	MFF
1,2-Dibromoethane (EDB)	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 9:59	MFF
Dibromomethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 9:59	MFF
1,2-Dichlorobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 9:59	MFF
1,3-Dichlorobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 9:59	MFF
1,4-Dichlorobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 9:59	MFF
trans-1,4-Dichloro-2-butene	ND	0.0045	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 9:59	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.023	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 9:59	MFF
1,1-Dichloroethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 9:59	MFF
1,2-Dichloroethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 9:59	MFF
1,1-Dichloroethylene	ND	0.0045	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 9:59	MFF
cis-1,2-Dichloroethylene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 9:59	MFF
trans-1,2-Dichloroethylene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 9:59	MFF
1,2-Dichloropropane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 9:59	MFF
1,3-Dichloropropane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 9:59	MFF
2,2-Dichloropropane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 9:59	MFF
1,1-Dichloropropene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 9:59	MFF
cis-1,3-Dichloropropene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 9:59	MFF
trans-1,3-Dichloropropene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 9:59	MFF
Ethylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 9:59	MFF
Hexachlorobutadiene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 9:59	MFF
2-Hexanone (MBK)	ND	0.023	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 9:59	MFF
Isopropylbenzene (Cumene)	ND	0.0023	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 9:59	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0023	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 9:59	MFF



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273767

Sampled: 1/24/2013 11:38

Sample ID: 13A0643-13

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0045	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 9:59	MFF
Methylene Chloride	ND	0.023	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 9:59	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.023	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 9:59	MFF
Naphthalene	ND	0.0045	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 9:59	MFF
n-Propylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 9:59	MFF
Styrene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 9:59	MFF
1,1,1,2-Tetrachloroethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 9:59	MFF
1,1,2,2-Tetrachloroethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 9:59	MFF
Tetrachloroethylene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 9:59	MFF
Tetrahydrofuran	ND	0.011	mg/Kg dry	1	V-16	SW-846 8260C	1/25/13	1/29/13 9:59	MFF
Toluene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 9:59	MFF
1,2,3-Trichlorobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 9:59	MFF
1,2,4-Trichlorobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 9:59	MFF
1,1,1-Trichloroethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 9:59	MFF
1,1,2-Trichloroethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 9:59	MFF
Trichloroethylene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 9:59	MFF
Trichlorofluoromethane (Freon 11)	ND	0.011	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 9:59	MFF
1,2,3-Trichloropropane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 9:59	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.011	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 9:59	MFF
1,2,4-Trimethylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 9:59	MFF
1,3,5-Trimethylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 9:59	MFF
Vinyl Chloride	ND	0.011	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 9:59	MFF
m+p Xylene	ND	0.0045	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 9:59	MFF
o-Xylene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 9:59	MFF
Surrogates	% Recovery	Recovery Limits	Flag						
1,2-Dichloroethane-d4	109	70-130							
Toluene-d8	98.3	70-130							
4-Bromofluorobenzene	89.7	70-130							



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273767

Sampled: 1/24/2013 11:38

Sample ID: 13A0643-13

Sample Matrix: Soil

## Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/25/13	1/28/13 14:43	CMR
Acenaphthylene	ND	0.19	mg/Kg dry	1	MS-09	SW-846 8270D	1/25/13	1/28/13 14:43	CMR
Anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/25/13	1/28/13 14:43	CMR
Benzo(a)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/25/13	1/28/13 14:43	CMR
Benzo(a)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/25/13	1/28/13 14:43	CMR
Benzo(b)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/25/13	1/28/13 14:43	CMR
Benzo(g,h,i)perylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/25/13	1/28/13 14:43	CMR
Benzo(k)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/25/13	1/28/13 14:43	CMR
Chrysene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/25/13	1/28/13 14:43	CMR
Dibenz(a,h)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/25/13	1/28/13 14:43	CMR
Fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/25/13	1/28/13 14:43	CMR
Fluorene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/25/13	1/28/13 14:43	CMR
Indeno(1,2,3-cd)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/25/13	1/28/13 14:43	CMR
2-Methylnaphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/25/13	1/28/13 14:43	CMR
Naphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/25/13	1/28/13 14:43	CMR
Phenanthrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/25/13	1/28/13 14:43	CMR
Pyrene	0.21	0.19	mg/Kg dry	1		SW-846 8270D	1/25/13	1/28/13 14:43	CMR
Surrogates	% Recovery		Recovery Limits		Flag				
Nitrobenzene-d5	79.5		30-130				1/28/13 14:43		
2-Fluorobiphenyl	83.4		30-130				1/28/13 14:43		
Terphenyl-d14	95.5		30-130				1/28/13 14:43		



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Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273767

Sampled: 1/24/2013 11:38

Sample ID: 13A0643-13

Sample Matrix: Soil

#### Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	61	11	mg/Kg dry	1		CTDEP ETPH	1/30/13	1/31/13 15:21	SCS
Surrogates	% Recovery		Recovery Limits		Flag				
o-Terphenyl	81.1		50-150			1/31/13 15:21			



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273767

Sampled: 1/24/2013 11:38

Sample ID: 13A0643-13

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	88.6		% Wt	1		SM 2540G	1/28/13	1/29/13 9:56	RH



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273765

Sampled: 1/24/2013 11:35

Sample ID: 13A0643-14

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.099	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 13:37	MFF
Acrylonitrile	ND	0.0059	mg/Kg dry	1	V-16	SW-846 8260C	1/25/13	1/29/13 13:37	MFF
Benzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 13:37	MFF
Bromobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 13:37	MFF
Bromodichloromethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 13:37	MFF
Bromoform	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 13:37	MFF
Bromomethane	ND	0.0099	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 13:37	MFF
2-Butanone (MEK)	ND	0.040	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 13:37	MFF
n-Butylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 13:37	MFF
sec-Butylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 13:37	MFF
tert-Butylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 13:37	MFF
Carbon Disulfide	ND	0.0059	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 13:37	MFF
Carbon Tetrachloride	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 13:37	MFF
Chlorobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 13:37	MFF
Chlorodibromomethane	ND	0.00099	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 13:37	MFF
Chloroethane	ND	0.020	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 13:37	MFF
Chloroform	ND	0.0040	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 13:37	MFF
Chloromethane	ND	0.0099	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 13:37	MFF
2-Chlorotoluene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 13:37	MFF
4-Chlorotoluene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 13:37	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg dry	1	V-16	SW-846 8260C	1/25/13	1/29/13 13:37	MFF
1,2-Dibromoethane (EDB)	ND	0.00099	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 13:37	MFF
Dibromomethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 13:37	MFF
1,2-Dichlorobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 13:37	MFF
1,3-Dichlorobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 13:37	MFF
1,4-Dichlorobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 13:37	MFF
trans-1,4-Dichloro-2-butene	ND	0.0040	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 13:37	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.020	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 13:37	MFF
1,1-Dichloroethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 13:37	MFF
1,2-Dichloroethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 13:37	MFF
1,1-Dichloroethylene	ND	0.0040	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 13:37	MFF
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 13:37	MFF
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 13:37	MFF
1,2-Dichloropropane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 13:37	MFF
1,3-Dichloropropane	ND	0.00099	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 13:37	MFF
2,2-Dichloropropane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 13:37	MFF
1,1-Dichloropropene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 13:37	MFF
cis-1,3-Dichloropropene	ND	0.00099	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 13:37	MFF
trans-1,3-Dichloropropene	ND	0.00099	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 13:37	MFF
Ethylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 13:37	MFF
Hexachlorobutadiene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 13:37	MFF
2-Hexanone (MBK)	ND	0.020	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 13:37	MFF
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 13:37	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 13:37	MFF



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273765

Sampled: 1/24/2013 11:35

Sample ID: 13A0643-14

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 13:37	MFF
Methylene Chloride	ND	0.020	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 13:37	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 13:37	MFF
Naphthalene	ND	0.0040	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 13:37	MFF
n-Propylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 13:37	MFF
Styrene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 13:37	MFF
1,1,1,2-Tetrachloroethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 13:37	MFF
1,1,2,2-Tetrachloroethane	ND	0.00099	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 13:37	MFF
Tetrachloroethylene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 13:37	MFF
Tetrahydrofuran	ND	0.0099	mg/Kg dry	1	V-16	SW-846 8260C	1/25/13	1/29/13 13:37	MFF
Toluene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 13:37	MFF
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 13:37	MFF
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 13:37	MFF
1,1,1-Trichloroethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 13:37	MFF
1,1,2-Trichloroethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 13:37	MFF
Trichloroethylene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 13:37	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0099	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 13:37	MFF
1,2,3-Trichloropropane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 13:37	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0099	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 13:37	MFF
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 13:37	MFF
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 13:37	MFF
Vinyl Chloride	ND	0.0099	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 13:37	MFF
m+p Xylene	ND	0.0040	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 13:37	MFF
o-Xylene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 13:37	MFF
Surrogates	% Recovery	Recovery Limits	Flag						
1,2-Dichloroethane-d4	107	70-130							
Toluene-d8	98.4	70-130							
4-Bromofluorobenzene	92.6	70-130							



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273765

Sampled: 1/24/2013 11:35

Sample ID: 13A0643-14

Sample Matrix: Soil

Sample Flags: DL-03

## Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.37	mg/Kg dry	1		SW-846 8270D	1/25/13	1/28/13 15:16	CMR
Acenaphthylene	ND	0.37	mg/Kg dry	1		SW-846 8270D	1/25/13	1/28/13 15:16	CMR
Anthracene	ND	0.37	mg/Kg dry	1		SW-846 8270D	1/25/13	1/28/13 15:16	CMR
Benzo(a)anthracene	ND	0.37	mg/Kg dry	1		SW-846 8270D	1/25/13	1/28/13 15:16	CMR
Benzo(a)pyrene	ND	0.37	mg/Kg dry	1		SW-846 8270D	1/25/13	1/28/13 15:16	CMR
Benzo(b)fluoranthene	ND	0.37	mg/Kg dry	1		SW-846 8270D	1/25/13	1/28/13 15:16	CMR
Benzo(g,h,i)perylene	ND	0.37	mg/Kg dry	1		SW-846 8270D	1/25/13	1/28/13 15:16	CMR
Benzo(k)fluoranthene	ND	0.37	mg/Kg dry	1		SW-846 8270D	1/25/13	1/28/13 15:16	CMR
Chrysene	ND	0.37	mg/Kg dry	1		SW-846 8270D	1/25/13	1/28/13 15:16	CMR
Dibenz(a,h)anthracene	ND	0.37	mg/Kg dry	1		SW-846 8270D	1/25/13	1/28/13 15:16	CMR
Fluoranthene	0.52	0.37	mg/Kg dry	1		SW-846 8270D	1/25/13	1/28/13 15:16	CMR
Fluorene	ND	0.37	mg/Kg dry	1		SW-846 8270D	1/25/13	1/28/13 15:16	CMR
Indeno(1,2,3-cd)pyrene	ND	0.37	mg/Kg dry	1		SW-846 8270D	1/25/13	1/28/13 15:16	CMR
2-Methylnaphthalene	ND	0.37	mg/Kg dry	1		SW-846 8270D	1/25/13	1/28/13 15:16	CMR
Naphthalene	ND	0.37	mg/Kg dry	1		SW-846 8270D	1/25/13	1/28/13 15:16	CMR
Phenanthrene	0.37	0.37	mg/Kg dry	1		SW-846 8270D	1/25/13	1/28/13 15:16	CMR
Pyrene	0.59	0.37	mg/Kg dry	1		SW-846 8270D	1/25/13	1/28/13 15:16	CMR
Surrogates	% Recovery		Recovery Limits		Flag				
Nitrobenzene-d5	77.6		30-130				1/28/13 15:16		
2-Fluorobiphenyl	81.9		30-130				1/28/13 15:16		
Terphenyl-d14	91.5		30-130				1/28/13 15:16		



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Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273765

Sampled: 1/24/2013 11:35

Sample ID: 13A0643-14

Sample Matrix: Soil

#### Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	55	11	mg/Kg dry	1		CTDEP ETPH	1/30/13	1/31/13 15:38	SCS
Surrogates	% Recovery		Recovery Limits		Flag				
o-Terphenyl	75.7		50-150			1/31/13 15:38			



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273765

Sampled: 1/24/2013 11:35

Sample ID: 13A0643-14

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	89.4		% Wt	1		SM 2540G	1/29/13	1/30/13 9:24	RH



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273764

Sampled: 1/24/2013 11:22

Sample ID: 13A0643-15

Sample Matrix: Soil

**Organochloride Pesticides by GC/ECD**

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.023	mg/Kg dry	1		SW-846 8081B	1/25/13	1/28/13 19:21	MJC
Aldrin [1]	ND	0.0057	mg/Kg dry	1		SW-846 8081B	1/25/13	1/28/13 19:21	MJC
alpha-BHC [1]	ND	0.0057	mg/Kg dry	1		SW-846 8081B	1/25/13	1/28/13 19:21	MJC
beta-BHC [1]	ND	0.0057	mg/Kg dry	1		SW-846 8081B	1/25/13	1/28/13 19:21	MJC
delta-BHC [1]	ND	0.0057	mg/Kg dry	1		SW-846 8081B	1/25/13	1/28/13 19:21	MJC
gamma-BHC (Lindane) [1]	ND	0.0023	mg/Kg dry	1		SW-846 8081B	1/25/13	1/28/13 19:21	MJC
Chlordane [2]	ND	0.023	mg/Kg dry	1		SW-846 8081B	1/25/13	1/28/13 19:21	MJC
4,4'-DDD [1]	ND	0.0045	mg/Kg dry	1		SW-846 8081B	1/25/13	1/28/13 19:21	MJC
4,4'-DDE [1]	ND	0.0045	mg/Kg dry	1		SW-846 8081B	1/25/13	1/28/13 19:21	MJC
4,4'-DDT [1]	ND	0.0045	mg/Kg dry	1		SW-846 8081B	1/25/13	1/28/13 19:21	MJC
Dieldrin [1]	ND	0.0045	mg/Kg dry	1		SW-846 8081B	1/25/13	1/28/13 19:21	MJC
Endosulfan I [1]	ND	0.0057	mg/Kg dry	1		SW-846 8081B	1/25/13	1/28/13 19:21	MJC
Endosulfan II [1]	ND	0.0091	mg/Kg dry	1		SW-846 8081B	1/25/13	1/28/13 19:21	MJC
Endosulfan sulfate [1]	ND	0.0091	mg/Kg dry	1		SW-846 8081B	1/25/13	1/28/13 19:21	MJC
Endrin [1]	ND	0.0091	mg/Kg dry	1		SW-846 8081B	1/25/13	1/28/13 19:21	MJC
Endrin aldehyde [1]	ND	0.0091	mg/Kg dry	1		SW-846 8081B	1/25/13	1/28/13 19:21	MJC
Endrin ketone [1]	ND	0.0091	mg/Kg dry	1		SW-846 8081B	1/25/13	1/28/13 19:21	MJC
Heptachlor [1]	ND	0.0057	mg/Kg dry	1		SW-846 8081B	1/25/13	1/28/13 19:21	MJC
Heptachlor epoxide [1]	ND	0.0057	mg/Kg dry	1		SW-846 8081B	1/25/13	1/28/13 19:21	MJC
Hexachlorobenzene [1]	ND	0.0068	mg/Kg dry	1		SW-846 8081B	1/25/13	1/28/13 19:21	MJC
Methoxychlor [1]	ND	0.057	mg/Kg dry	1		SW-846 8081B	1/25/13	1/28/13 19:21	MJC
Toxaphene [1]	ND	0.11	mg/Kg dry	1		SW-846 8081B	1/25/13	1/28/13 19:21	MJC
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	46.6	30-150							
Decachlorobiphenyl [2]	56.4	30-150							
Tetrachloro-m-xylene [1]	59.5	30-150							
Tetrachloro-m-xylene [2]	58.4	30-150							



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273764

Sampled: 1/24/2013 11:22

Sample ID: 13A0643-15

Sample Matrix: Soil

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**Metals Analyses (Total)**

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	11	0.81	mg/Kg dry	1	M-12	SW-846 6010C	1/25/13	1/30/13 16:16	KSH



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Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273764

Sampled: 1/24/2013 11:22

Sample ID: 13A0643-15

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	85.8		% Wt	1		SM 2540G	1/29/13	1/30/13 9:24	RH



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273763

Sampled: 1/24/2013 11:13

Sample ID: 13A0643-16

Sample Matrix: Soil

## Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 16:07	CMR
Acenaphthylene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 16:07	CMR
Anthracene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 16:07	CMR
Benzo(a)anthracene	0.63	0.21	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 16:07	CMR
Benzo(a)pyrene	0.79	0.21	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 16:07	CMR
Benzo(b)fluoranthene	1.2	0.21	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 16:07	CMR
Benzo(g,h,i)perylene	0.30	0.21	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 16:07	CMR
Benzo(k)fluoranthene	0.39	0.21	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 16:07	CMR
Chrysene	1.0	0.21	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 16:07	CMR
Dibenz(a,h)anthracene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 16:07	CMR
Fluoranthene	1.2	0.21	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 16:07	CMR
Fluorene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 16:07	CMR
Indeno(1,2,3-cd)pyrene	0.45	0.21	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 16:07	CMR
2-Methylnaphthalene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 16:07	CMR
Naphthalene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 16:07	CMR
Phenanthrene	1.1	0.21	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 16:07	CMR
Pyrene	1.2	0.21	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 16:07	CMR
Surrogates	% Recovery	Recovery Limits	Flag						
Nitrobenzene-d5	97.7	30-130							
2-Fluorobiphenyl	100	30-130							
Terphenyl-d14	69.7	30-130							



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273763

Sampled: 1/24/2013 11:13

Sample ID: 13A0643-16

Sample Matrix: Soil

### Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 13:16	JMB
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 13:16	JMB
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 13:16	JMB
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 13:16	JMB
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 13:16	JMB
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 13:16	JMB
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 13:16	JMB
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 13:16	JMB
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 13:16	JMB
Surrogates	% Recovery		Recovery Limits		Flag				
Decachlorobiphenyl [1]	67.6		30-150				1/29/13 13:16		
Decachlorobiphenyl [2]	68.7		30-150				1/29/13 13:16		
Tetrachloro-m-xylene [1]	62.8		30-150				1/29/13 13:16		
Tetrachloro-m-xylene [2]	63.2		30-150				1/29/13 13:16		



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

Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273763

Sampled: 1/24/2013 11:13

Sample ID: 13A0643-16

Sample Matrix: Soil

#### Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	180	60	mg/Kg dry	5		CTDEP ETPH	1/30/13	1/31/13 15:04	SCS
Surrogates	% Recovery		Recovery Limits		Flag				
o-Terphenyl	77.4		50-150			1/31/13 15:04			



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

Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273763

Sampled: 1/24/2013 11:13

Sample ID: 13A0643-16

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	82.2		% Wt	1		SM 2540G	1/29/13	1/30/13 9:24	RH



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273762

Sampled: 1/24/2013 11:08

Sample ID: 13A0643-17

Sample Matrix: Soil

## Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/30/13 13:16	CMR
Acenaphthylene	0.30	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/30/13 13:16	CMR
Anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/30/13 13:16	CMR
Benzo(a)anthracene	0.68	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/30/13 13:16	CMR
Benzo(a)pyrene	0.72	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/30/13 13:16	CMR
Benzo(b)fluoranthene	0.94	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/30/13 13:16	CMR
Benzo(g,h,i)perylene	0.50	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/30/13 13:16	CMR
Benzo(k)fluoranthene	0.38	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/30/13 13:16	CMR
Chrysene	0.95	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/30/13 13:16	CMR
Dibenz(a,h)anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/30/13 13:16	CMR
Fluoranthene	1.5	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/30/13 13:16	CMR
Fluorene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/30/13 13:16	CMR
Indeno(1,2,3-cd)pyrene	0.51	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/30/13 13:16	CMR
2-Methylnaphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/30/13 13:16	CMR
Naphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/30/13 13:16	CMR
Phenanthrene	1.2	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/30/13 13:16	CMR
Pyrene	1.4	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/30/13 13:16	CMR
Surrogates	% Recovery	Recovery Limits	Flag						
Nitrobenzene-d5	93.2	30-130							
2-Fluorobiphenyl	98.4	30-130							
Terphenyl-d14	91.7	30-130							



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273762

Sampled: 1/24/2013 11:08

Sample ID: 13A0643-17

Sample Matrix: Soil

### Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 13:29	JMB
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 13:29	JMB
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 13:29	JMB
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 13:29	JMB
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 13:29	JMB
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 13:29	JMB
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 13:29	JMB
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 13:29	JMB
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 13:29	JMB
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	76.5	30-150							
Decachlorobiphenyl [2]	78.5	30-150							
Tetrachloro-m-xylene [1]	72.7	30-150							
Tetrachloro-m-xylene [2]	73.2	30-150							



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

Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273762

Sampled: 1/24/2013 11:08

Sample ID: 13A0643-17

Sample Matrix: Soil

#### Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	120	12	mg/Kg dry	1		CTDEP ETPH	1/30/13	1/31/13 15:56	SCS
Surrogates	% Recovery		Recovery Limits		Flag				
o-Terphenyl	71.2		50-150			1/31/13 15:56			



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273762

Sampled: 1/24/2013 11:08

Sample ID: 13A0643-17

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.2		% Wt	1		SM 2540G	1/29/13	1/30/13 9:24	RH



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273761

Sampled: 1/24/2013 11:05

Sample ID: 13A0643-18

Sample Matrix: Soil

## Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 17:05	CMR
Acenaphthylene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 17:05	CMR
Anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 17:05	CMR
Benzo(a)anthracene	0.21	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 17:05	CMR
Benzo(a)pyrene	0.26	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 17:05	CMR
Benzo(b)fluoranthene	0.38	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 17:05	CMR
Benzo(g,h,i)perylene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 17:05	CMR
Benzo(k)fluoranthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 17:05	CMR
Chrysene	0.34	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 17:05	CMR
Dibenz(a,h)anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 17:05	CMR
Fluoranthene	0.43	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 17:05	CMR
Fluorene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 17:05	CMR
Indeno(1,2,3-cd)pyrene	0.24	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 17:05	CMR
2-Methylnaphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 17:05	CMR
Naphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 17:05	CMR
Phenanthrene	0.32	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 17:05	CMR
Pyrene	0.41	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 17:05	CMR
Surrogates	% Recovery		Recovery Limits		Flag				
Nitrobenzene-d5	95.4		30-130				1/29/13 17:05		
2-Fluorobiphenyl	98.3		30-130				1/29/13 17:05		
Terphenyl-d14	78.1		30-130				1/29/13 17:05		



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273761

Sampled: 1/24/2013 11:05

Sample ID: 13A0643-18

Sample Matrix: Soil

### Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 13:41	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 13:41	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 13:41	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 13:41	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 13:41	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 13:41	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 13:41	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 13:41	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 13:41	JMB
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	73.9	30-150							
Decachlorobiphenyl [2]	76.1	30-150							
Tetrachloro-m-xylene [1]	69.9	30-150							
Tetrachloro-m-xylene [2]	71.2	30-150							



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

Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273761

Sampled: 1/24/2013 11:05

Sample ID: 13A0643-18

Sample Matrix: Soil

#### Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	66	12	mg/Kg dry	1		CTDEP ETPH	1/30/13	1/31/13 16:13	SCS
Surrogates	% Recovery		Recovery Limits		Flag				
o-Terphenyl	69.3		50-150			1/31/13 16:13			



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

Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273761

Sampled: 1/24/2013 11:05

Sample ID: 13A0643-18

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	85.3		% Wt	1		SM 2540G	1/29/13	1/30/13 9:24	RH



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273741

Sampled: 1/24/2013 09:50

Sample ID: 13A0643-19

Sample Matrix: Soil

## Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/30/13 13:51	CMR
Acenaphthylene	0.46	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/30/13 13:51	CMR
Anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/30/13 13:51	CMR
Benzo(a)anthracene	1.2	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/30/13 13:51	CMR
Benzo(a)pyrene	1.2	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/30/13 13:51	CMR
Benzo(b)fluoranthene	1.4	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/30/13 13:51	CMR
Benzo(g,h,i)perylene	0.96	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/30/13 13:51	CMR
Benzo(k)fluoranthene	0.55	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/30/13 13:51	CMR
Chrysene	1.4	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/30/13 13:51	CMR
Dibenz(a,h)anthracene	0.27	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/30/13 13:51	CMR
Fluoranthene	1.9	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/30/13 13:51	CMR
Fluorene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/30/13 13:51	CMR
Indeno(1,2,3-cd)pyrene	1.0	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/30/13 13:51	CMR
2-Methylnaphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/30/13 13:51	CMR
Naphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/30/13 13:51	CMR
Phenanthrene	1.2	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/30/13 13:51	CMR
Pyrene	2.8	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/30/13 13:51	CMR
Surrogates	% Recovery	Recovery Limits	Flag						
Nitrobenzene-d5	87.2	30-130							
2-Fluorobiphenyl	86.1	30-130							
Terphenyl-d14	112	30-130							



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273741

Sampled: 1/24/2013 09:50

Sample ID: 13A0643-19

Sample Matrix: Soil

### Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 13:53	JMB
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 13:53	JMB
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 13:53	JMB
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 13:53	JMB
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 13:53	JMB
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 13:53	JMB
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 13:53	JMB
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 13:53	JMB
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 13:53	JMB
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	67.4	30-150							
Decachlorobiphenyl [2]	69.3	30-150							
Tetrachloro-m-xylene [1]	63.4	30-150							
Tetrachloro-m-xylene [2]	64.2	30-150							



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

Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273741

Sampled: 1/24/2013 09:50

Sample ID: 13A0643-19

Sample Matrix: Soil

#### Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	160	60	mg/Kg dry	5		CTDEP ETPH	1/30/13	1/31/13 15:21	SCS
Surrogates	% Recovery		Recovery Limits		Flag				
o-Terphenyl	66.9		50-150			1/31/13 15:21			



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273741

Sampled: 1/24/2013 09:50

Sample ID: 13A0643-19

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.2		% Wt	1		SM 2540G	1/29/13	1/30/13 9:24	RH



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273742

Sampled: 1/24/2013 09:55

Sample ID: 13A0643-20

Sample Matrix: Soil

Sample Flags: DL-03

## Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	1.2	0.44	mg/Kg dry	2		SW-846 8270D	1/29/13	1/29/13 18:04	CMR
Acenaphthene	ND	2.2	mg/Kg dry	10		SW-846 8270D	1/29/13	1/30/13 14:55	CMR
Acenaphthylene	2.6	0.44	mg/Kg dry	2		SW-846 8270D	1/29/13	1/29/13 18:04	CMR
Acenaphthylene	3.1	2.2	mg/Kg dry	10		SW-846 8270D	1/29/13	1/30/13 14:55	CMR
Anthracene	4.0	0.44	mg/Kg dry	2		SW-846 8270D	1/29/13	1/29/13 18:04	CMR
Anthracene	4.8	2.2	mg/Kg dry	10		SW-846 8270D	1/29/13	1/30/13 14:55	CMR
Benzo(a)anthracene	9.4	0.44	mg/Kg dry	2		SW-846 8270D	1/29/13	1/29/13 18:04	CMR
Benzo(a)anthracene	10	2.2	mg/Kg dry	10		SW-846 8270D	1/29/13	1/30/13 14:55	CMR
Benzo(a)pyrene	7.3	0.44	mg/Kg dry	2		SW-846 8270D	1/29/13	1/29/13 18:04	CMR
Benzo(a)pyrene	8.4	2.2	mg/Kg dry	10		SW-846 8270D	1/29/13	1/30/13 14:55	CMR
Benzo(b)fluoranthene	9.9	0.44	mg/Kg dry	2		SW-846 8270D	1/29/13	1/29/13 18:04	CMR
Benzo(b)fluoranthene	11	2.2	mg/Kg dry	10		SW-846 8270D	1/29/13	1/30/13 14:55	CMR
Benzo(g,h,i)perylene	2.1	0.44	mg/Kg dry	2		SW-846 8270D	1/29/13	1/29/13 18:04	CMR
Benzo(g,h,i)perylene	ND	2.2	mg/Kg dry	10		SW-846 8270D	1/29/13	1/30/13 14:55	CMR
Benzo(k)fluoranthene	3.6	0.44	mg/Kg dry	2		SW-846 8270D	1/29/13	1/29/13 18:04	CMR
Benzo(k)fluoranthene	4.1	2.2	mg/Kg dry	10		SW-846 8270D	1/29/13	1/30/13 14:55	CMR
Chrysene	9.8	0.44	mg/Kg dry	2		SW-846 8270D	1/29/13	1/29/13 18:04	CMR
Chrysene	11	2.2	mg/Kg dry	10		SW-846 8270D	1/29/13	1/30/13 14:55	CMR
Dibenz(a,h)anthracene	0.88	0.44	mg/Kg dry	2		SW-846 8270D	1/29/13	1/29/13 18:04	CMR
Dibenz(a,h)anthracene	ND	2.2	mg/Kg dry	10		SW-846 8270D	1/29/13	1/30/13 14:55	CMR
Fluoranthene	22	2.2	mg/Kg dry	10		SW-846 8270D	1/29/13	1/30/13 14:55	CMR
Fluoranthene	18	0.44	mg/Kg dry	2	E	SW-846 8270D	1/29/13	1/29/13 18:04	CMR
Fluorene	4.8	2.2	mg/Kg dry	10		SW-846 8270D	1/29/13	1/30/13 14:55	CMR
Fluorene	4.0	0.44	mg/Kg dry	2		SW-846 8270D	1/29/13	1/29/13 18:04	CMR
Indeno(1,2,3-cd)pyrene	3.6	2.2	mg/Kg dry	10		SW-846 8270D	1/29/13	1/30/13 14:55	CMR
Indeno(1,2,3-cd)pyrene	2.5	0.44	mg/Kg dry	2		SW-846 8270D	1/29/13	1/29/13 18:04	CMR
2-Methylnaphthalene	1.4	0.44	mg/Kg dry	2		SW-846 8270D	1/29/13	1/29/13 18:04	CMR
2-Methylnaphthalene	ND	2.2	mg/Kg dry	10		SW-846 8270D	1/29/13	1/30/13 14:55	CMR
Naphthalene	1.2	0.44	mg/Kg dry	2		SW-846 8270D	1/29/13	1/29/13 18:04	CMR
Naphthalene	ND	2.2	mg/Kg dry	10		SW-846 8270D	1/29/13	1/30/13 14:55	CMR
Phenanthrene	28	0.44	mg/Kg dry	2	E	SW-846 8270D	1/29/13	1/29/13 18:04	CMR
Phenanthrene	33	2.2	mg/Kg dry	10		SW-846 8270D	1/29/13	1/30/13 14:55	CMR
Pyrene	13	0.44	mg/Kg dry	2	E	SW-846 8270D	1/29/13	1/29/13 18:04	CMR
Pyrene	14	2.2	mg/Kg dry	10		SW-846 8270D	1/29/13	1/30/13 14:55	CMR

Surrogates	% Recovery	Recovery Limits	Flag
Nitrobenzene-d5	100	30-130	1/29/13 18:04
Nitrobenzene-d5	107	30-130	1/30/13 14:55
2-Fluorobiphenyl	105	30-130	1/29/13 18:04
2-Fluorobiphenyl	109	30-130	1/30/13 14:55
Terphenyl-d14	55.5	30-130	1/29/13 18:04
Terphenyl-d14	57.3	30-130	1/30/13 14:55



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

Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273742

Sampled: 1/24/2013 09:55

Sample ID: 13A0643-20

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 14:06	JMB
Aroclor-1221 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 14:06	JMB
Aroclor-1232 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 14:06	JMB
Aroclor-1242 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 14:06	JMB
Aroclor-1248 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 14:06	JMB
Aroclor-1254 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 14:06	JMB
Aroclor-1260 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 14:06	JMB
Aroclor-1262 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 14:06	JMB
Aroclor-1268 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 14:06	JMB
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	65.4	30-150							
Decachlorobiphenyl [2]	67.9	30-150							
Tetrachloro-m-xylene [1]	60.9	30-150							
Tetrachloro-m-xylene [2]	59.0	30-150							



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

Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273742

Sampled: 1/24/2013 09:55

Sample ID: 13A0643-20

Sample Matrix: Soil

#### Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	450	130	mg/Kg dry	10		CTDEP ETPH	1/30/13	1/31/13 15:38	SCS
Surrogates	% Recovery		Recovery Limits		Flag				
o-Terphenyl	92.6		50-150			1/31/13 15:38			



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

Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273742

Sampled: 1/24/2013 09:55

Sample ID: 13A0643-20

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	76.8		% Wt	1		SM 2540G	1/29/13	1/30/13 9:24	RH



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273743

Sampled: 1/24/2013 10:00

Sample ID: 13A0643-21

Sample Matrix: Soil

## Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 18:33	CMR
Acenaphthylene	0.43	0.21	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 18:33	CMR
Anthracene	0.58	0.21	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 18:33	CMR
Benzo(a)anthracene	2.4	0.21	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 18:33	CMR
Benzo(a)pyrene	2.2	0.21	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 18:33	CMR
Benzo(b)fluoranthene	3.0	0.21	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 18:33	CMR
Benzo(g,h,i)perylene	0.87	0.21	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 18:33	CMR
Benzo(k)fluoranthene	1.0	0.21	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 18:33	CMR
Chrysene	2.6	0.21	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 18:33	CMR
Dibenz(a,h)anthracene	0.35	0.21	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 18:33	CMR
Fluoranthene	4.4	0.21	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 18:33	CMR
Fluorene	0.38	0.21	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 18:33	CMR
Indeno(1,2,3-cd)pyrene	1.1	0.21	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 18:33	CMR
2-Methylnaphthalene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 18:33	CMR
Naphthalene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 18:33	CMR
Phenanthrene	3.6	0.21	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 18:33	CMR
Pyrene	3.4	0.21	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 18:33	CMR
Surrogates	% Recovery	Recovery Limits	Flag						
Nitrobenzene-d5	98.4	30-130							
2-Fluorobiphenyl	101	30-130							
Terphenyl-d14	71.2	30-130							



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273743

Sampled: 1/24/2013 10:00

Sample ID: 13A0643-21

Sample Matrix: Soil

### Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 14:18	JMB
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 14:18	JMB
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 14:18	JMB
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 14:18	JMB
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 14:18	JMB
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 14:18	JMB
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 14:18	JMB
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 14:18	JMB
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 14:18	JMB
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	69.4	30-150							
Decachlorobiphenyl [2]	72.0	30-150							
Tetrachloro-m-xylene [1]	66.1	30-150							
Tetrachloro-m-xylene [2]	65.6	30-150							



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

Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273743

Sampled: 1/24/2013 10:00

Sample ID: 13A0643-21

Sample Matrix: Soil

#### Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	390	120	mg/Kg dry	10		CTDEP ETPH	1/30/13	1/31/13 15:56	SCS
Surrogates	% Recovery		Recovery Limits		Flag				
o-Terphenyl	93.5		50-150			1/31/13 15:56			



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

Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273743

Sampled: 1/24/2013 10:00

Sample ID: 13A0643-21

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	81.0		% Wt	1		SM 2540G	1/29/13	1/30/13 9:24	RH



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273744

Sampled: 1/24/2013 10:08

Sample ID: 13A0643-22

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.23	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:04	MFF
Acrylonitrile	ND	0.014	mg/Kg dry	1	V-16	SW-846 8260C	1/25/13	1/29/13 14:04	MFF
Benzene	ND	0.0046	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:04	MFF
Bromobenzene	ND	0.0046	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:04	MFF
Bromodichloromethane	ND	0.0046	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:04	MFF
Bromoform	ND	0.0046	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:04	MFF
Bromomethane	ND	0.023	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:04	MFF
2-Butanone (MEK)	ND	0.092	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:04	MFF
n-Butylbenzene	ND	0.0046	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:04	MFF
sec-Butylbenzene	ND	0.0046	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:04	MFF
tert-Butylbenzene	ND	0.0046	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:04	MFF
Carbon Disulfide	ND	0.014	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:04	MFF
Carbon Tetrachloride	ND	0.0046	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:04	MFF
Chlorobenzene	ND	0.0046	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:04	MFF
Chlorodibromomethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:04	MFF
Chloroethane	ND	0.046	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:04	MFF
Chloroform	ND	0.0092	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:04	MFF
Chloromethane	ND	0.023	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:04	MFF
2-Chlorotoluene	ND	0.0046	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:04	MFF
4-Chlorotoluene	ND	0.0046	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:04	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0046	mg/Kg dry	1	V-16	SW-846 8260C	1/25/13	1/29/13 14:04	MFF
1,2-Dibromoethane (EDB)	ND	0.0023	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:04	MFF
Dibromomethane	ND	0.0046	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:04	MFF
1,2-Dichlorobenzene	ND	0.0046	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:04	MFF
1,3-Dichlorobenzene	ND	0.0046	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:04	MFF
1,4-Dichlorobenzene	ND	0.0046	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:04	MFF
trans-1,4-Dichloro-2-butene	ND	0.0092	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:04	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.046	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:04	MFF
1,1-Dichloroethane	ND	0.0046	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:04	MFF
1,2-Dichloroethane	ND	0.0046	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:04	MFF
1,1-Dichloroethylene	ND	0.0092	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:04	MFF
cis-1,2-Dichloroethylene	ND	0.0046	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:04	MFF
trans-1,2-Dichloroethylene	ND	0.0046	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:04	MFF
1,2-Dichloropropane	ND	0.0046	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:04	MFF
1,3-Dichloropropane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:04	MFF
2,2-Dichloropropane	ND	0.0046	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:04	MFF
1,1-Dichloropropene	ND	0.0046	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:04	MFF
cis-1,3-Dichloropropene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:04	MFF
trans-1,3-Dichloropropene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:04	MFF
Ethylbenzene	ND	0.0046	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:04	MFF
Hexachlorobutadiene	ND	0.0046	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:04	MFF
2-Hexanone (MBK)	ND	0.046	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:04	MFF
Isopropylbenzene (Cumene)	ND	0.0046	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:04	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0046	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:04	MFF



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273744

Sampled: 1/24/2013 10:08

Sample ID: 13A0643-22

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0092	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:04	MFF
Methylene Chloride	ND	0.046	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:04	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.046	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:04	MFF
Naphthalene	ND	0.0092	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:04	MFF
n-Propylbenzene	ND	0.0046	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:04	MFF
Styrene	ND	0.0046	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:04	MFF
1,1,1,2-Tetrachloroethane	ND	0.0046	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:04	MFF
1,1,2,2-Tetrachloroethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:04	MFF
Tetrachloroethylene	ND	0.0046	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:04	MFF
Tetrahydrofuran	ND	0.023	mg/Kg dry	1	V-16	SW-846 8260C	1/25/13	1/29/13 14:04	MFF
Toluene	ND	0.0046	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:04	MFF
1,2,3-Trichlorobenzene	ND	0.0046	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:04	MFF
1,2,4-Trichlorobenzene	ND	0.0046	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:04	MFF
1,1,1-Trichloroethane	ND	0.0046	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:04	MFF
1,1,2-Trichloroethane	ND	0.0046	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:04	MFF
Trichloroethylene	ND	0.0046	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:04	MFF
Trichlorofluoromethane (Freon 11)	ND	0.023	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:04	MFF
1,2,3-Trichloropropane	ND	0.0046	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:04	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.023	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:04	MFF
1,2,4-Trimethylbenzene	ND	0.0046	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:04	MFF
1,3,5-Trimethylbenzene	ND	0.0046	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:04	MFF
Vinyl Chloride	ND	0.023	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:04	MFF
m+p Xylene	ND	0.0092	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:04	MFF
o-Xylene	ND	0.0046	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:04	MFF
Surrogates	% Recovery	Recovery Limits	Flag						
1,2-Dichloroethane-d4	109	70-130							
Toluene-d8	97.5	70-130							
4-Bromofluorobenzene	86.5	70-130							



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273744

Sampled: 1/24/2013 10:08

Sample ID: 13A0643-22

Sample Matrix: Soil

## Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.23	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 19:03	CMR
Acenaphthylene	ND	0.23	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 19:03	CMR
Anthracene	ND	0.23	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 19:03	CMR
Benzo(a)anthracene	ND	0.23	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 19:03	CMR
Benzo(a)pyrene	ND	0.23	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 19:03	CMR
Benzo(b)fluoranthene	ND	0.23	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 19:03	CMR
Benzo(g,h,i)perylene	ND	0.23	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 19:03	CMR
Benzo(k)fluoranthene	ND	0.23	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 19:03	CMR
Chrysene	ND	0.23	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 19:03	CMR
Dibenz(a,h)anthracene	ND	0.23	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 19:03	CMR
Fluoranthene	ND	0.23	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 19:03	CMR
Fluorene	ND	0.23	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 19:03	CMR
Indeno(1,2,3-cd)pyrene	ND	0.23	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 19:03	CMR
2-Methylnaphthalene	ND	0.23	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 19:03	CMR
Naphthalene	ND	0.23	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 19:03	CMR
Phenanthrene	ND	0.23	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 19:03	CMR
Pyrene	ND	0.23	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 19:03	CMR
Surrogates	% Recovery		Recovery Limits		Flag				
Nitrobenzene-d5	78.7		30-130				1/29/13 19:03		
2-Fluorobiphenyl	79.2		30-130				1/29/13 19:03		
Terphenyl-d14	59.7		30-130				1/29/13 19:03		



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

Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273744

Sampled: 1/24/2013 10:08

Sample ID: 13A0643-22

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 14:30	JMB
Aroclor-1221 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 14:30	JMB
Aroclor-1232 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 14:30	JMB
Aroclor-1242 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 14:30	JMB
Aroclor-1248 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 14:30	JMB
Aroclor-1254 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 14:30	JMB
Aroclor-1260 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 14:30	JMB
Aroclor-1262 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 14:30	JMB
Aroclor-1268 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 14:30	JMB
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	80.6	30-150							
Decachlorobiphenyl [2]	82.2	30-150							
Tetrachloro-m-xylene [1]	74.1	30-150							
Tetrachloro-m-xylene [2]	74.9	30-150							



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

Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273744

Sampled: 1/24/2013 10:08

Sample ID: 13A0643-22

Sample Matrix: Soil

#### Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	290	68	mg/Kg dry	5		CTDEP ETPH	1/30/13	1/31/13 16:13	SCS
Surrogates	% Recovery		Recovery Limits		Flag				
o-Terphenyl	54.3		50-150			1/31/13 16:13			



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273744

Sampled: 1/24/2013 10:08

Sample ID: 13A0643-22

Sample Matrix: Soil

**Metals Analyses (Total)**

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	8.6	3.4	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 16:45	KSH
Barium	45	3.4	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 16:45	KSH
Cadmium	ND	0.34	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 16:45	KSH
Chromium	32	0.68	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 16:45	KSH
Copper	16	0.68	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 16:45	KSH
Lead	16	1.0	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 16:45	KSH
Mercury	0.067	0.034	mg/Kg dry	1		SW-846 7471B	1/25/13	1/29/13 13:12	AMP
Nickel	11	0.68	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 16:45	KSH
Selenium	ND	6.8	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 16:45	KSH
Silver	ND	0.68	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 16:45	KSH
Zinc	41	1.4	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 16:45	KSH



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273744

Sampled: 1/24/2013 10:08

Sample ID: 13A0643-22

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	73.0		% Wt	1		SM 2540G	1/29/13	1/30/13 9:24	RH



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273746

Sampled: 1/24/2013 10:13

Sample ID: 13A0643-24

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.12	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:32	MFF
Acrylonitrile	ND	0.0075	mg/Kg dry	1	V-16	SW-846 8260C	1/25/13	1/29/13 14:32	MFF
Benzene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:32	MFF
Bromobenzene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:32	MFF
Bromodichloromethane	ND	0.0025	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:32	MFF
Bromoform	ND	0.0025	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:32	MFF
Bromomethane	ND	0.012	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:32	MFF
2-Butanone (MEK)	ND	0.050	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:32	MFF
n-Butylbenzene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:32	MFF
sec-Butylbenzene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:32	MFF
tert-Butylbenzene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:32	MFF
Carbon Disulfide	ND	0.0075	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:32	MFF
Carbon Tetrachloride	ND	0.0025	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:32	MFF
Chlorobenzene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:32	MFF
Chlorodibromomethane	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:32	MFF
Chloroethane	ND	0.025	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:32	MFF
Chloroform	ND	0.0050	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:32	MFF
Chloromethane	ND	0.012	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:32	MFF
2-Chlorotoluene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:32	MFF
4-Chlorotoluene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:32	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0025	mg/Kg dry	1	V-16	SW-846 8260C	1/25/13	1/29/13 14:32	MFF
1,2-Dibromoethane (EDB)	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:32	MFF
Dibromomethane	ND	0.0025	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:32	MFF
1,2-Dichlorobenzene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:32	MFF
1,3-Dichlorobenzene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:32	MFF
1,4-Dichlorobenzene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:32	MFF
trans-1,4-Dichloro-2-butene	ND	0.0050	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:32	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.025	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:32	MFF
1,1-Dichloroethane	ND	0.0025	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:32	MFF
1,2-Dichloroethane	ND	0.0025	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:32	MFF
1,1-Dichloroethylene	ND	0.0050	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:32	MFF
cis-1,2-Dichloroethylene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:32	MFF
trans-1,2-Dichloroethylene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:32	MFF
1,2-Dichloropropane	ND	0.0025	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:32	MFF
1,3-Dichloropropane	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:32	MFF
2,2-Dichloropropane	ND	0.0025	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:32	MFF
1,1-Dichloropropene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:32	MFF
cis-1,3-Dichloropropene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:32	MFF
trans-1,3-Dichloropropene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:32	MFF
Ethylbenzene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:32	MFF
Hexachlorobutadiene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:32	MFF
2-Hexanone (MBK)	ND	0.025	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:32	MFF
Isopropylbenzene (Cumene)	ND	0.0025	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:32	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0025	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:32	MFF



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273746

Sampled: 1/24/2013 10:13

Sample ID: 13A0643-24

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0050	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:32	MFF
Methylene Chloride	ND	0.025	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:32	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.025	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:32	MFF
Naphthalene	ND	0.0050	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:32	MFF
n-Propylbenzene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:32	MFF
Styrene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:32	MFF
1,1,1,2-Tetrachloroethane	ND	0.0025	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:32	MFF
1,1,2,2-Tetrachloroethane	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:32	MFF
Tetrachloroethylene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:32	MFF
Tetrahydrofuran	ND	0.012	mg/Kg dry	1	V-16	SW-846 8260C	1/25/13	1/29/13 14:32	MFF
Toluene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:32	MFF
1,2,3-Trichlorobenzene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:32	MFF
1,2,4-Trichlorobenzene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:32	MFF
1,1,1-Trichloroethane	ND	0.0025	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:32	MFF
1,1,2-Trichloroethane	ND	0.0025	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:32	MFF
Trichloroethylene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:32	MFF
Trichlorofluoromethane (Freon 11)	ND	0.012	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:32	MFF
1,2,3-Trichloropropane	ND	0.0025	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:32	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.012	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:32	MFF
1,2,4-Trimethylbenzene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:32	MFF
1,3,5-Trimethylbenzene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:32	MFF
Vinyl Chloride	ND	0.012	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:32	MFF
m+p Xylene	ND	0.0050	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:32	MFF
o-Xylene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:32	MFF
Surrogates	% Recovery	Recovery Limits	Flag						
1,2-Dichloroethane-d4	107	70-130							
Toluene-d8	97.6	70-130							
4-Bromofluorobenzene	82.4	70-130							



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273746

Sampled: 1/24/2013 10:13

Sample ID: 13A0643-24

Sample Matrix: Soil

## Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.22	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 19:33	CMR
Acenaphthylene	ND	0.22	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 19:33	CMR
Anthracene	ND	0.22	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 19:33	CMR
Benzo(a)anthracene	ND	0.22	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 19:33	CMR
Benzo(a)pyrene	ND	0.22	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 19:33	CMR
Benzo(b)fluoranthene	ND	0.22	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 19:33	CMR
Benzo(g,h,i)perylene	ND	0.22	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 19:33	CMR
Benzo(k)fluoranthene	ND	0.22	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 19:33	CMR
Chrysene	ND	0.22	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 19:33	CMR
Dibenz(a,h)anthracene	ND	0.22	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 19:33	CMR
Fluoranthene	ND	0.22	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 19:33	CMR
Fluorene	ND	0.22	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 19:33	CMR
Indeno(1,2,3-cd)pyrene	ND	0.22	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 19:33	CMR
2-Methylnaphthalene	ND	0.22	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 19:33	CMR
Naphthalene	ND	0.22	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 19:33	CMR
Phenanthrene	ND	0.22	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 19:33	CMR
Pyrene	ND	0.22	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 19:33	CMR
Surrogates		% Recovery	Recovery Limits		Flag				
Nitrobenzene-d5		103	30-130					1/29/13 19:33	
2-Fluorobiphenyl		101	30-130					1/29/13 19:33	
Terphenyl-d14		78.6	30-130					1/29/13 19:33	



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273746

Sampled: 1/24/2013 10:13

Sample ID: 13A0643-24

Sample Matrix: Soil

### Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 14:43	JMB
Aroclor-1221 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 14:43	JMB
Aroclor-1232 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 14:43	JMB
Aroclor-1242 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 14:43	JMB
Aroclor-1248 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 14:43	JMB
Aroclor-1254 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 14:43	JMB
Aroclor-1260 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 14:43	JMB
Aroclor-1262 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 14:43	JMB
Aroclor-1268 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 14:43	JMB
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	61.6	30-150							
Decachlorobiphenyl [2]	61.8	30-150							
Tetrachloro-m-xylene [1]	55.2	30-150							
Tetrachloro-m-xylene [2]	56.4	30-150							



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

Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273746

Sampled: 1/24/2013 10:13

Sample ID: 13A0643-24

Sample Matrix: Soil

# Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	63	13	mg/Kg dry	1		CTDEP ETPH	1/30/13	1/31/13 14:46	SCS
CT ETPH	73	13	mg/Kg dry	1		CTDEP ETPH	1/31/13	2/1/13 9:28	SCS
Surrogates	% Recovery		Recovery Limits		Flag				
o-Terphenyl	47.0	*	50-150		S-19			2/1/13 9:28	
o-Terphenyl	43.4	*	50-150		S-19			1/31/13 14:46	



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

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Field Sample #: 1273746

Sampled: 1/24/2013 10:13

Sample ID: 13A0643-24

Sample Matrix: Soil

**Metals Analyses (Total)**

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	3.1	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 16:51	KSH
Barium	55	3.1	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 16:51	KSH
Cadmium	ND	0.31	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 16:51	KSH
Chromium	19	0.62	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 16:51	KSH
Copper	11	0.62	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 16:51	KSH
Lead	27	0.93	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 16:51	KSH
Mercury	0.048	0.031	mg/Kg dry	1		SW-846 7471B	1/25/13	1/29/13 13:14	AMP
Nickel	9.9	0.62	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 16:51	KSH
Selenium	ND	6.2	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 16:51	KSH
Silver	ND	0.62	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 16:51	KSH
Zinc	38	1.2	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 16:51	KSH



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

Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273746

Sampled: 1/24/2013 10:13

Sample ID: 13A0643-24

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	78.8		% Wt	1		SM 2540G	1/29/13	1/30/13 9:24	RH



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273748

Sampled: 1/24/2013 10:20

Sample ID: 13A0643-26

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.13	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:59	MFF
Acetone	ND	8.2	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 6:22	MFF
Acrylonitrile	ND	0.0075	mg/Kg dry	1	V-16	SW-846 8260C	1/25/13	1/29/13 14:59	MFF
Acrylonitrile	ND	0.82	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 6:22	MFF
Benzene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:59	MFF
Benzene	ND	0.16	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 6:22	MFF
Bromobenzene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:59	MFF
Bromobenzene	ND	0.16	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 6:22	MFF
Bromodichloromethane	ND	0.0025	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:59	MFF
Bromodichloromethane	ND	0.33	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 6:22	MFF
Bromoform	ND	0.0025	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:59	MFF
Bromoform	ND	0.16	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 6:22	MFF
Bromomethane	ND	0.013	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:59	MFF
Bromomethane	ND	0.33	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 6:22	MFF
2-Butanone (MEK)	ND	0.050	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:59	MFF
2-Butanone (MEK)	ND	3.3	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 6:22	MFF
n-Butylbenzene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:59	MFF
n-Butylbenzene	ND	0.16	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 6:22	MFF
sec-Butylbenzene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:59	MFF
sec-Butylbenzene	ND	0.16	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 6:22	MFF
tert-Butylbenzene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:59	MFF
tert-Butylbenzene	ND	0.16	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 6:22	MFF
Carbon Disulfide	ND	0.0075	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:59	MFF
Carbon Disulfide	ND	0.49	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 6:22	MFF
Carbon Tetrachloride	ND	0.0025	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:59	MFF
Carbon Tetrachloride	ND	0.16	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 6:22	MFF
Chlorobenzene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:59	MFF
Chlorobenzene	ND	0.16	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 6:22	MFF
Chlorodibromomethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:59	MFF
Chlorodibromomethane	ND	0.082	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 6:22	MFF
Chloroethane	ND	0.025	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:59	MFF
Chloroethane	ND	0.33	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 6:22	MFF
Chloroform	ND	0.0050	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:59	MFF
Chloroform	ND	0.33	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 6:22	MFF
Chloromethane	ND	0.013	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:59	MFF
Chloromethane	ND	0.33	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 6:22	MFF
2-Chlorotoluene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:59	MFF
2-Chlorotoluene	ND	0.16	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 6:22	MFF
4-Chlorotoluene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:59	MFF
4-Chlorotoluene	ND	0.16	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 6:22	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0025	mg/Kg dry	1	V-16	SW-846 8260C	1/25/13	1/29/13 14:59	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.82	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 6:22	MFF
1,2-Dibromoethane (EDB)	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:59	MFF
1,2-Dibromoethane (EDB)	ND	0.16	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 6:22	MFF



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273748

Sampled: 1/24/2013 10:20

Sample ID: 13A0643-26

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Dibromomethane	ND	0.0025	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:59	MFF
Dibromomethane	ND	0.16	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 6:22	MFF
1,2-Dichlorobenzene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:59	MFF
1,2-Dichlorobenzene	ND	0.16	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 6:22	MFF
1,3-Dichlorobenzene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:59	MFF
1,3-Dichlorobenzene	ND	0.16	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 6:22	MFF
1,4-Dichlorobenzene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:59	MFF
1,4-Dichlorobenzene	ND	0.16	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 6:22	MFF
trans-1,4-Dichloro-2-butene	ND	0.0050	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:59	MFF
trans-1,4-Dichloro-2-butene	ND	0.33	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 6:22	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.025	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:59	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.33	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 6:22	MFF
1,1-Dichloroethane	ND	0.0025	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:59	MFF
1,1-Dichloroethane	ND	0.16	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 6:22	MFF
1,2-Dichloroethane	ND	0.0025	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:59	MFF
1,2-Dichloroethane	ND	0.16	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 6:22	MFF
1,1-Dichloroethylene	ND	0.0050	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:59	MFF
1,1-Dichloroethylene	ND	0.16	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 6:22	MFF
cis-1,2-Dichloroethylene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:59	MFF
cis-1,2-Dichloroethylene	ND	0.16	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 6:22	MFF
trans-1,2-Dichloroethylene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:59	MFF
trans-1,2-Dichloroethylene	ND	0.16	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 6:22	MFF
1,2-Dichloropropane	ND	0.0025	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:59	MFF
1,2-Dichloropropane	ND	0.16	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 6:22	MFF
1,3-Dichloropropane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:59	MFF
1,3-Dichloropropane	ND	0.082	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 6:22	MFF
2,2-Dichloropropane	ND	0.0025	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:59	MFF
2,2-Dichloropropane	ND	0.16	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 6:22	MFF
1,1-Dichloropropene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:59	MFF
1,1-Dichloropropene	ND	0.33	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 6:22	MFF
cis-1,3-Dichloropropene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:59	MFF
cis-1,3-Dichloropropene	ND	0.082	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 6:22	MFF
trans-1,3-Dichloropropene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:59	MFF
trans-1,3-Dichloropropene	ND	0.082	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 6:22	MFF
Ethylbenzene	0.035	0.0025	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:59	MFF
Ethylbenzene	ND	0.16	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 6:22	MFF
Hexachlorobutadiene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:59	MFF
Hexachlorobutadiene	ND	0.16	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 6:22	MFF
2-Hexanone (MBK)	ND	0.025	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:59	MFF
2-Hexanone (MBK)	ND	1.6	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 6:22	MFF
Isopropylbenzene (Cumene)	ND	0.0025	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:59	MFF
Isopropylbenzene (Cumene)	ND	0.16	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 6:22	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0025	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:59	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.16	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 6:22	MFF



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273748

Sampled: 1/24/2013 10:20

Sample ID: 13A0643-26

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0050	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:59	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.16	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 6:22	MFF
Methylene Chloride	ND	0.025	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:59	MFF
Methylene Chloride	ND	0.82	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 6:22	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.025	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:59	MFF
4-Methyl-2-pentanone (MIBK)	ND	1.6	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 6:22	MFF
Naphthalene	ND	0.0050	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:59	MFF
Naphthalene	ND	0.33	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 6:22	MFF
n-Propylbenzene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:59	MFF
n-Propylbenzene	ND	0.16	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 6:22	MFF
Styrene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:59	MFF
Styrene	ND	0.16	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 6:22	MFF
1,1,1,2-Tetrachloroethane	ND	0.0025	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:59	MFF
1,1,1,2-Tetrachloroethane	ND	0.16	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 6:22	MFF
1,1,2,2-Tetrachloroethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:59	MFF
1,1,2,2-Tetrachloroethane	ND	0.082	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 6:22	MFF
Tetrachloroethylene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:59	MFF
Tetrachloroethylene	ND	0.16	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 6:22	MFF
Tetrahydrofuran	ND	0.013	mg/Kg dry	1	V-16	SW-846 8260C	1/25/13	1/29/13 14:59	MFF
Tetrahydrofuran	ND	1.6	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 6:22	MFF
Toluene	0.49	0.0025	mg/Kg dry	1	E	SW-846 8260C	1/25/13	1/29/13 14:59	MFF
Toluene	0.16	0.16	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 6:22	MFF
1,2,3-Trichlorobenzene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:59	MFF
1,2,3-Trichlorobenzene	ND	0.82	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 6:22	MFF
1,2,4-Trichlorobenzene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:59	MFF
1,2,4-Trichlorobenzene	ND	0.16	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 6:22	MFF
1,1,1-Trichloroethane	ND	0.16	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 6:22	MFF
1,1,1-Trichloroethane	ND	0.0025	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:59	MFF
1,1,2-Trichloroethane	ND	0.0025	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:59	MFF
1,1,2-Trichloroethane	ND	0.16	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 6:22	MFF
Trichloroethylene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:59	MFF
Trichloroethylene	ND	0.16	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 6:22	MFF
Trichlorofluoromethane (Freon 11)	ND	0.013	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:59	MFF
Trichlorofluoromethane (Freon 11)	ND	0.33	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 6:22	MFF
1,2,3-Trichloropropane	ND	0.0025	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:59	MFF
1,2,3-Trichloropropane	ND	0.33	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 6:22	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.013	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:59	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.16	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 6:22	MFF
1,2,4-Trimethylbenzene	0.0028	0.0025	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:59	MFF
1,2,4-Trimethylbenzene	ND	0.16	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 6:22	MFF
1,3,5-Trimethylbenzene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:59	MFF
1,3,5-Trimethylbenzene	ND	0.16	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 6:22	MFF
Vinyl Chloride	ND	0.013	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:59	MFF



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273748

Sampled: 1/24/2013 10:20

Sample ID: 13A0643-26

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Vinyl Chloride	ND	0.33	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 6:22	MFF
m+p Xylene	0.15	0.0050	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:59	MFF
m+p Xylene	ND	0.33	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 6:22	MFF
o-Xylene	0.050	0.0025	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 14:59	MFF
o-Xylene	ND	0.16	mg/Kg dry	1		SW-846 8260C	1/30/13	1/31/13 6:22	MFF
Surrogates	% Recovery		Recovery Limits		Flag				
1,2-Dichloroethane-d4	109		70-130				1/29/13 14:59		
1,2-Dichloroethane-d4	92.9		70-130				1/31/13 6:22		
Toluene-d8	97.4		70-130				1/29/13 14:59		
Toluene-d8	100		70-130				1/31/13 6:22		
4-Bromofluorobenzene	85.6		70-130				1/29/13 14:59		
4-Bromofluorobenzene	97.4		70-130				1/31/13 6:22		



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273748

Sampled: 1/24/2013 10:20

Sample ID: 13A0643-26

Sample Matrix: Soil

## Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/30/13 13:21	CMR
Acenaphthylene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/30/13 13:21	CMR
Anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/30/13 13:21	CMR
Benzo(a)anthracene	0.27	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/30/13 13:21	CMR
Benzo(a)pyrene	0.37	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/30/13 13:21	CMR
Benzo(b)fluoranthene	0.77	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/30/13 13:21	CMR
Benzo(g,h,i)perylene	0.20	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/30/13 13:21	CMR
Benzo(k)fluoranthene	0.25	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/30/13 13:21	CMR
Chrysene	0.46	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/30/13 13:21	CMR
Dibenz(a,h)anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/30/13 13:21	CMR
Fluoranthene	0.75	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/30/13 13:21	CMR
Fluorene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/30/13 13:21	CMR
Indeno(1,2,3-cd)pyrene	0.33	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/30/13 13:21	CMR
2-Methylnaphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/30/13 13:21	CMR
Naphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/30/13 13:21	CMR
Phenanthrene	0.39	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/30/13 13:21	CMR
Pyrene	0.44	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/30/13 13:21	CMR
Surrogates	% Recovery	Recovery Limits	Flag						
Nitrobenzene-d5	80.7	30-130							
2-Fluorobiphenyl	84.5	30-130							
Terphenyl-d14	52.3	30-130							



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273748

Sampled: 1/24/2013 10:20

Sample ID: 13A0643-26

Sample Matrix: Soil

### Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 15:20	JMB
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 15:20	JMB
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 15:20	JMB
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 15:20	JMB
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 15:20	JMB
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 15:20	JMB
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 15:20	JMB
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 15:20	JMB
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 15:20	JMB
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	71.8	30-150							
Decachlorobiphenyl [2]	74.1	30-150							
Tetrachloro-m-xylene [1]	69.1	30-150							
Tetrachloro-m-xylene [2]	70.1	30-150							



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

Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273748

Sampled: 1/24/2013 10:20

Sample ID: 13A0643-26

Sample Matrix: Soil

#### Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	450	230	mg/Kg dry	20		CTDEP ETPH	1/30/13	1/31/13 16:31	SCS
Surrogates	% Recovery		Recovery Limits		Flag				
o-Terphenyl	*		50-150		S-01	1/31/13 16:31			



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273748

Sampled: 1/24/2013 10:20

Sample ID: 13A0643-26

Sample Matrix: Soil

# Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	2.8	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 16:56	KSH
Barium	35	2.8	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 16:56	KSH
Cadmium	ND	0.28	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 16:56	KSH
Chromium	18	0.57	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 16:56	KSH
Copper	20	0.57	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 16:56	KSH
Lead	66	0.85	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 16:56	KSH
Mercury	0.057	0.029	mg/Kg dry	1		SW-846 7471B	1/25/13	1/29/13 12:00	AMP
Nickel	10	0.57	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 16:56	KSH
Selenium	ND	5.7	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 16:56	KSH
Silver	ND	0.57	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 16:56	KSH
Zinc	37	1.1	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 16:56	KSH



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273748

Sampled: 1/24/2013 10:20

Sample ID: 13A0643-26

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	84.5		% Wt	1		SM 2540G	1/29/13	1/30/13 9:24	RH



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273750

Sampled: 1/24/2013 11:27

Sample ID: 13A0643-28

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.085	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 8:35	MFF
Acrylonitrile	ND	0.0051	mg/Kg dry	1	V-16	SW-846 8260C	1/25/13	1/30/13 8:35	MFF
Benzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 8:35	MFF
Bromobenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 8:35	MFF
Bromodichloromethane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 8:35	MFF
Bromoform	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 8:35	MFF
Bromomethane	ND	0.0085	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 8:35	MFF
2-Butanone (MEK)	ND	0.034	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 8:35	MFF
n-Butylbenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 8:35	MFF
sec-Butylbenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 8:35	MFF
tert-Butylbenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 8:35	MFF
Carbon Disulfide	ND	0.0051	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 8:35	MFF
Carbon Tetrachloride	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 8:35	MFF
Chlorobenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 8:35	MFF
Chlorodibromomethane	ND	0.00085	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 8:35	MFF
Chloroethane	ND	0.017	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 8:35	MFF
Chloroform	ND	0.0034	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 8:35	MFF
Chloromethane	ND	0.0085	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 8:35	MFF
2-Chlorotoluene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 8:35	MFF
4-Chlorotoluene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 8:35	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0017	mg/Kg dry	1	V-16	SW-846 8260C	1/25/13	1/30/13 8:35	MFF
1,2-Dibromoethane (EDB)	ND	0.00085	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 8:35	MFF
Dibromomethane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 8:35	MFF
1,2-Dichlorobenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 8:35	MFF
1,3-Dichlorobenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 8:35	MFF
1,4-Dichlorobenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 8:35	MFF
trans-1,4-Dichloro-2-butene	ND	0.0034	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 8:35	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.017	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 8:35	MFF
1,1-Dichloroethane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 8:35	MFF
1,2-Dichloroethane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 8:35	MFF
1,1-Dichloroethylene	ND	0.0034	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 8:35	MFF
cis-1,2-Dichloroethylene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 8:35	MFF
trans-1,2-Dichloroethylene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 8:35	MFF
1,2-Dichloropropane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 8:35	MFF
1,3-Dichloropropane	ND	0.00085	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 8:35	MFF
2,2-Dichloropropane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 8:35	MFF
1,1-Dichloropropene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 8:35	MFF
cis-1,3-Dichloropropene	ND	0.00085	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 8:35	MFF
trans-1,3-Dichloropropene	ND	0.00085	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 8:35	MFF
Ethylbenzene	0.0022	0.0017	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 8:35	MFF
Hexachlorobutadiene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 8:35	MFF
2-Hexanone (MBK)	ND	0.017	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 8:35	MFF
Isopropylbenzene (Cumene)	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 8:35	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 8:35	MFF



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273750

Sampled: 1/24/2013 11:27

Sample ID: 13A0643-28

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0034	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 8:35	MFF
Methylene Chloride	ND	0.017	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 8:35	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.017	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 8:35	MFF
Naphthalene	ND	0.0034	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 8:35	MFF
n-Propylbenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 8:35	MFF
Styrene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 8:35	MFF
1,1,1,2-Tetrachloroethane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 8:35	MFF
1,1,2,2-Tetrachloroethane	ND	0.00085	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 8:35	MFF
Tetrachloroethylene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 8:35	MFF
Tetrahydrofuran	ND	0.0085	mg/Kg dry	1	V-16	SW-846 8260C	1/25/13	1/30/13 8:35	MFF
Toluene	0.0050	0.0017	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 8:35	MFF
1,2,3-Trichlorobenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 8:35	MFF
1,2,4-Trichlorobenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 8:35	MFF
1,1,1-Trichloroethane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 8:35	MFF
1,1,2-Trichloroethane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 8:35	MFF
Trichloroethylene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 8:35	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0085	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 8:35	MFF
1,2,3-Trichloropropane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 8:35	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0085	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 8:35	MFF
1,2,4-Trimethylbenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 8:35	MFF
1,3,5-Trimethylbenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 8:35	MFF
Vinyl Chloride	ND	0.0085	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 8:35	MFF
m+p Xylene	0.012	0.0034	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 8:35	MFF
o-Xylene	0.0065	0.0017	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 8:35	MFF
Surrogates	% Recovery		Recovery Limits		Flag				
1,2-Dichloroethane-d4	106		70-130				1/30/13 8:35		
Toluene-d8	98.4		70-130				1/30/13 8:35		
4-Bromofluorobenzene	93.8		70-130				1/30/13 8:35		



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273750

Sampled: 1/24/2013 11:27

Sample ID: 13A0643-28

Sample Matrix: Soil

## Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 19:26	CMR
Acenaphthylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 19:26	CMR
Anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 19:26	CMR
Benzo(a)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 19:26	CMR
Benzo(a)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 19:26	CMR
Benzo(b)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 19:26	CMR
Benzo(g,h,i)perylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 19:26	CMR
Benzo(k)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 19:26	CMR
Chrysene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 19:26	CMR
Dibenz(a,h)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 19:26	CMR
Fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 19:26	CMR
Fluorene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 19:26	CMR
Indeno(1,2,3-cd)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 19:26	CMR
2-Methylnaphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 19:26	CMR
Naphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 19:26	CMR
Phenanthrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 19:26	CMR
Pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 19:26	CMR
Surrogates		% Recovery	Recovery Limits		Flag				
Nitrobenzene-d5		86.1	30-130					1/29/13 19:26	
2-Fluorobiphenyl		94.1	30-130					1/29/13 19:26	
Terphenyl-d14		128	30-130					1/29/13 19:26	



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

Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273750

Sampled: 1/24/2013 11:27

Sample ID: 13A0643-28

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 15:32	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 15:32	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 15:32	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 15:32	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 15:32	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 15:32	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 15:32	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 15:32	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 15:32	JMB
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	77.0	30-150							
Decachlorobiphenyl [2]	78.8	30-150							
Tetrachloro-m-xylene [1]	70.6	30-150							
Tetrachloro-m-xylene [2]	72.1	30-150							



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

Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273750

Sampled: 1/24/2013 11:27

Sample ID: 13A0643-28

Sample Matrix: Soil

#### Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	38	11	mg/Kg dry	1		CTDEP ETPH	1/30/13	1/31/13 16:48	SCS
Surrogates	% Recovery		Recovery Limits		Flag				
o-Terphenyl	60.5		50-150			1/31/13 16:48			



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273750

Sampled: 1/24/2013 11:27

Sample ID: 13A0643-28

Sample Matrix: Soil

**Metals Analyses (Total)**

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	2.7	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 17:02	KSH
Barium	29	2.7	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 17:02	KSH
Cadmium	ND	0.27	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 17:02	KSH
Chromium	9.7	0.54	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 17:02	KSH
Copper	5.2	0.54	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 17:02	KSH
Lead	9.9	0.81	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 17:02	KSH
Mercury	ND	0.027	mg/Kg dry	1		SW-846 7471B	1/25/13	1/29/13 12:01	AMP
Nickel	7.2	0.54	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 17:02	KSH
Selenium	ND	5.4	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 17:02	KSH
Silver	ND	0.54	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 17:02	KSH
Zinc	18	1.1	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 17:02	KSH



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273750

Sampled: 1/24/2013 11:27

Sample ID: 13A0643-28

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	91.1		% Wt	1		SM 2540G	1/29/13	1/30/13 9:24	RH



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273752

Sampled: 1/24/2013 11:37

Sample ID: 13A0643-30

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.076	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 15:53	MFF
Acrylonitrile	ND	0.0046	mg/Kg dry	1	V-16	SW-846 8260C	1/25/13	1/29/13 15:53	MFF
Benzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 15:53	MFF
Bromobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 15:53	MFF
Bromodichloromethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 15:53	MFF
Bromoform	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 15:53	MFF
Bromomethane	ND	0.0076	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 15:53	MFF
2-Butanone (MEK)	ND	0.030	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 15:53	MFF
n-Butylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 15:53	MFF
sec-Butylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 15:53	MFF
tert-Butylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 15:53	MFF
Carbon Disulfide	ND	0.0046	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 15:53	MFF
Carbon Tetrachloride	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 15:53	MFF
Chlorobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 15:53	MFF
Chlorodibromomethane	ND	0.00076	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 15:53	MFF
Chloroethane	ND	0.015	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 15:53	MFF
Chloroform	ND	0.0030	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 15:53	MFF
Chloromethane	ND	0.0076	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 15:53	MFF
2-Chlorotoluene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 15:53	MFF
4-Chlorotoluene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 15:53	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0015	mg/Kg dry	1	V-16	SW-846 8260C	1/25/13	1/29/13 15:53	MFF
1,2-Dibromoethane (EDB)	ND	0.00076	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 15:53	MFF
Dibromomethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 15:53	MFF
1,2-Dichlorobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 15:53	MFF
1,3-Dichlorobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 15:53	MFF
1,4-Dichlorobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 15:53	MFF
trans-1,4-Dichloro-2-butene	ND	0.0030	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 15:53	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.015	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 15:53	MFF
1,1-Dichloroethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 15:53	MFF
1,2-Dichloroethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 15:53	MFF
1,1-Dichloroethylene	ND	0.0030	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 15:53	MFF
cis-1,2-Dichloroethylene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 15:53	MFF
trans-1,2-Dichloroethylene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 15:53	MFF
1,2-Dichloropropane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 15:53	MFF
1,3-Dichloropropane	ND	0.00076	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 15:53	MFF
2,2-Dichloropropane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 15:53	MFF
1,1-Dichloropropene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 15:53	MFF
cis-1,3-Dichloropropene	ND	0.00076	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 15:53	MFF
trans-1,3-Dichloropropene	ND	0.00076	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 15:53	MFF
Ethylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 15:53	MFF
Hexachlorobutadiene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 15:53	MFF
2-Hexanone (MBK)	ND	0.015	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 15:53	MFF
Isopropylbenzene (Cumene)	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 15:53	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 15:53	MFF



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273752

Sampled: 1/24/2013 11:37

Sample ID: 13A0643-30

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0030	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 15:53	MFF
Methylene Chloride	ND	0.015	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 15:53	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.015	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 15:53	MFF
Naphthalene	ND	0.0030	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 15:53	MFF
n-Propylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 15:53	MFF
Styrene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 15:53	MFF
1,1,1,2-Tetrachloroethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 15:53	MFF
1,1,2,2-Tetrachloroethane	ND	0.00076	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 15:53	MFF
Tetrachloroethylene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 15:53	MFF
Tetrahydrofuran	ND	0.0076	mg/Kg dry	1	V-16	SW-846 8260C	1/25/13	1/29/13 15:53	MFF
Toluene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 15:53	MFF
1,2,3-Trichlorobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 15:53	MFF
1,2,4-Trichlorobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 15:53	MFF
1,1,1-Trichloroethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 15:53	MFF
1,1,2-Trichloroethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 15:53	MFF
Trichloroethylene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 15:53	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0076	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 15:53	MFF
1,2,3-Trichloropropane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 15:53	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0076	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 15:53	MFF
1,2,4-Trimethylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 15:53	MFF
1,3,5-Trimethylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 15:53	MFF
Vinyl Chloride	ND	0.0076	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 15:53	MFF
m+p Xylene	ND	0.0030	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 15:53	MFF
o-Xylene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 15:53	MFF
Surrogates	% Recovery	Recovery Limits	Flag						
1,2-Dichloroethane-d4	104	70-130							
Toluene-d8	98.7	70-130							
4-Bromofluorobenzene	97.4	70-130							



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273752

Sampled: 1/24/2013 11:37

Sample ID: 13A0643-30

Sample Matrix: Soil

Sample Flags: DL-03

## Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.44	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 18:19	CMR
Acenaphthylene	ND	0.44	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 18:19	CMR
Anthracene	ND	0.44	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 18:19	CMR
Benzo(a)anthracene	ND	0.44	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 18:19	CMR
Benzo(a)pyrene	ND	0.44	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 18:19	CMR
Benzo(b)fluoranthene	ND	0.44	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 18:19	CMR
Benzo(g,h,i)perylene	ND	0.44	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 18:19	CMR
Benzo(k)fluoranthene	ND	0.44	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 18:19	CMR
Chrysene	ND	0.44	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 18:19	CMR
Dibenz(a,h)anthracene	ND	0.44	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 18:19	CMR
Fluoranthene	ND	0.44	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 18:19	CMR
Fluorene	ND	0.44	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 18:19	CMR
Indeno(1,2,3-cd)pyrene	ND	0.44	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 18:19	CMR
2-Methylnaphthalene	ND	0.44	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 18:19	CMR
Naphthalene	ND	0.44	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 18:19	CMR
Phenanthrene	ND	0.44	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 18:19	CMR
Pyrene	ND	0.44	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 18:19	CMR
Surrogates	% Recovery	Recovery Limits	Flag						
Nitrobenzene-d5	84.6	30-130							
2-Fluorobiphenyl	90.8	30-130							
Terphenyl-d14	111	30-130							



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

Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273752

Sampled: 1/24/2013 11:37

Sample ID: 13A0643-30

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 15:45	JMB
Aroclor-1221 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 15:45	JMB
Aroclor-1232 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 15:45	JMB
Aroclor-1242 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 15:45	JMB
Aroclor-1248 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 15:45	JMB
Aroclor-1254 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 15:45	JMB
Aroclor-1260 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 15:45	JMB
Aroclor-1262 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 15:45	JMB
Aroclor-1268 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 15:45	JMB
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	70.1	30-150							
Decachlorobiphenyl [2]	71.4	30-150							
Tetrachloro-m-xylene [1]	67.5	30-150							
Tetrachloro-m-xylene [2]	69.0	30-150							



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

Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273752

Sampled: 1/24/2013 11:37

Sample ID: 13A0643-30

Sample Matrix: Soil

Sample Flags: DL-03

**Petroleum Hydrocarbons Analyses**

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	ND	25	mg/Kg dry	1		CTDEP ETPH	1/30/13	1/31/13 13:54	SCS
Surrogates	% Recovery		Recovery Limits		Flag				
o-Terphenyl	68.9		50-150			1/31/13 13:54			



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273752

Sampled: 1/24/2013 11:37

Sample ID: 13A0643-30

Sample Matrix: Soil

# Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	3.2	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 17:28	KSH
Barium	34	3.2	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 17:28	KSH
Cadmium	ND	0.32	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 17:28	KSH
Chromium	20	0.63	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 17:28	KSH
Copper	11	0.63	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 17:28	KSH
Lead	6.4	0.95	mg/Kg dry	1		SW-846 6010C	1/25/13	1/30/13 13:04	KSH
Mercury	0.11	0.032	mg/Kg dry	1		SW-846 7471B	1/25/13	1/29/13 12:03	AMP
Nickel	8.5	0.63	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 17:28	KSH
Selenium	ND	6.3	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 17:28	KSH
Silver	ND	0.63	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 17:28	KSH
Zinc	23	1.3	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 17:28	KSH



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273752

Sampled: 1/24/2013 11:37

Sample ID: 13A0643-30

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	77.4		% Wt	1		SM 2540G	1/29/13	1/30/13 9:24	RH



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273756

Sampled: 1/24/2013 12:12

Sample ID: 13A0643-34

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.10	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 16:20	MFF
Acrylonitrile	ND	0.0061	mg/Kg dry	1	V-16	SW-846 8260C	1/25/13	1/29/13 16:20	MFF
Benzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 16:20	MFF
Bromobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 16:20	MFF
Bromodichloromethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 16:20	MFF
Bromoform	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 16:20	MFF
Bromomethane	ND	0.010	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 16:20	MFF
2-Butanone (MEK)	ND	0.041	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 16:20	MFF
n-Butylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 16:20	MFF
sec-Butylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 16:20	MFF
tert-Butylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 16:20	MFF
Carbon Disulfide	ND	0.0061	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 16:20	MFF
Carbon Tetrachloride	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 16:20	MFF
Chlorobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 16:20	MFF
Chlorodibromomethane	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 16:20	MFF
Chloroethane	ND	0.020	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 16:20	MFF
Chloroform	ND	0.0041	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 16:20	MFF
Chloromethane	ND	0.010	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 16:20	MFF
2-Chlorotoluene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 16:20	MFF
4-Chlorotoluene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 16:20	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg dry	1	V-16	SW-846 8260C	1/25/13	1/29/13 16:20	MFF
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 16:20	MFF
Dibromomethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 16:20	MFF
1,2-Dichlorobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 16:20	MFF
1,3-Dichlorobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 16:20	MFF
1,4-Dichlorobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 16:20	MFF
trans-1,4-Dichloro-2-butene	ND	0.0041	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 16:20	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.020	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 16:20	MFF
1,1-Dichloroethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 16:20	MFF
1,2-Dichloroethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 16:20	MFF
1,1-Dichloroethylene	ND	0.0041	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 16:20	MFF
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 16:20	MFF
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 16:20	MFF
1,2-Dichloropropane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 16:20	MFF
1,3-Dichloropropane	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 16:20	MFF
2,2-Dichloropropane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 16:20	MFF
1,1-Dichloropropene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 16:20	MFF
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 16:20	MFF
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 16:20	MFF
Ethylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 16:20	MFF
Hexachlorobutadiene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 16:20	MFF
2-Hexanone (MBK)	ND	0.020	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 16:20	MFF
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 16:20	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 16:20	MFF



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273756

Sampled: 1/24/2013 12:12

Sample ID: 13A0643-34

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0041	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 16:20	MFF
Methylene Chloride	ND	0.020	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 16:20	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 16:20	MFF
Naphthalene	ND	0.0041	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 16:20	MFF
n-Propylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 16:20	MFF
Styrene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 16:20	MFF
1,1,1,2-Tetrachloroethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 16:20	MFF
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 16:20	MFF
Tetrachloroethylene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 16:20	MFF
Tetrahydrofuran	ND	0.010	mg/Kg dry	1	V-16	SW-846 8260C	1/25/13	1/29/13 16:20	MFF
Toluene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 16:20	MFF
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 16:20	MFF
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 16:20	MFF
1,1,1-Trichloroethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 16:20	MFF
1,1,2-Trichloroethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 16:20	MFF
Trichloroethylene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 16:20	MFF
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 16:20	MFF
1,2,3-Trichloropropane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 16:20	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 16:20	MFF
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 16:20	MFF
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 16:20	MFF
Vinyl Chloride	ND	0.010	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 16:20	MFF
m+p Xylene	ND	0.0041	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 16:20	MFF
o-Xylene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 16:20	MFF
Surrogates	% Recovery	Recovery Limits	Flag						
1,2-Dichloroethane-d4	107	70-130							
Toluene-d8	98.2	70-130							
4-Bromofluorobenzene	88.1	70-130							



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273756

Sampled: 1/24/2013 12:12

Sample ID: 13A0643-34

Sample Matrix: Soil

## Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/30/13 14:26	CMR
Acenaphthylene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/30/13 14:26	CMR
Anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/30/13 14:26	CMR
Benzo(a)anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/30/13 14:26	CMR
Benzo(a)pyrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/30/13 14:26	CMR
Benzo(b)fluoranthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/30/13 14:26	CMR
Benzo(g,h,i)perylene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/30/13 14:26	CMR
Benzo(k)fluoranthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/30/13 14:26	CMR
Chrysene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/30/13 14:26	CMR
Dibenz(a,h)anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/30/13 14:26	CMR
Fluoranthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/30/13 14:26	CMR
Fluorene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/30/13 14:26	CMR
Indeno(1,2,3-cd)pyrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/30/13 14:26	CMR
2-Methylnaphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/30/13 14:26	CMR
Naphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/30/13 14:26	CMR
Phenanthrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/30/13 14:26	CMR
Pyrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/30/13 14:26	CMR
Surrogates	% Recovery	Recovery Limits	Flag						
Nitrobenzene-d5	89.4	30-130							
2-Fluorobiphenyl	88.2	30-130							
Terphenyl-d14	92.9	30-130							



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273756

Sampled: 1/24/2013 12:12

Sample ID: 13A0643-34

Sample Matrix: Soil

### Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 15:57	JMB
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 15:57	JMB
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 15:57	JMB
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 15:57	JMB
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 15:57	JMB
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 15:57	JMB
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 15:57	JMB
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 15:57	JMB
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 15:57	JMB
Surrogates	% Recovery		Recovery Limits		Flag				
Decachlorobiphenyl [1]	76.4		30-150				1/29/13 15:57		
Decachlorobiphenyl [2]	77.6		30-150				1/29/13 15:57		
Tetrachloro-m-xylene [1]	69.5		30-150				1/29/13 15:57		
Tetrachloro-m-xylene [2]	71.2		30-150				1/29/13 15:57		



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

Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273756

Sampled: 1/24/2013 12:12

Sample ID: 13A0643-34

Sample Matrix: Soil

#### Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	32	12	mg/Kg dry	1		CTDEP ETPH	1/30/13	1/31/13 14:46	SCS
Surrogates	% Recovery		Recovery Limits		Flag				
o-Terphenyl	56.9		50-150			1/31/13 14:46			



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273756

Sampled: 1/24/2013 12:12

Sample ID: 13A0643-34

Sample Matrix: Soil

**Metals Analyses (Total)**

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	2.9	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 17:34	KSH
Barium	61	2.9	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 17:34	KSH
Cadmium	ND	0.29	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 17:34	KSH
Chromium	14	0.59	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 17:34	KSH
Copper	14	0.59	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 17:34	KSH
Lead	170	0.88	mg/Kg dry	1		SW-846 6010C	1/25/13	1/30/13 13:10	KSH
Mercury	0.10	0.029	mg/Kg dry	1		SW-846 7471B	1/25/13	1/29/13 12:05	AMP
Nickel	6.6	0.59	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 17:34	KSH
Selenium	ND	5.9	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 17:34	KSH
Silver	ND	0.59	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 17:34	KSH
Zinc	77	1.2	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 17:34	KSH



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

Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273756

Sampled: 1/24/2013 12:12

Sample ID: 13A0643-34

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.9		% Wt	1		SM 2540G	1/29/13	1/30/13 9:24	RH



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273759

Sampled: 1/24/2013 12:35

Sample ID: 13A0643-37

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.081	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 16:48	MFF
Acrylonitrile	ND	0.0049	mg/Kg dry	1	V-16	SW-846 8260C	1/25/13	1/29/13 16:48	MFF
Benzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 16:48	MFF
Bromobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 16:48	MFF
Bromodichloromethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 16:48	MFF
Bromoform	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 16:48	MFF
Bromomethane	ND	0.0081	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 16:48	MFF
2-Butanone (MEK)	ND	0.032	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 16:48	MFF
n-Butylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 16:48	MFF
sec-Butylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 16:48	MFF
tert-Butylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 16:48	MFF
Carbon Disulfide	ND	0.0049	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 16:48	MFF
Carbon Tetrachloride	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 16:48	MFF
Chlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 16:48	MFF
Chlorodibromomethane	ND	0.00081	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 16:48	MFF
Chloroethane	ND	0.016	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 16:48	MFF
Chloroform	ND	0.0032	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 16:48	MFF
Chloromethane	ND	0.0081	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 16:48	MFF
2-Chlorotoluene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 16:48	MFF
4-Chlorotoluene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 16:48	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0016	mg/Kg dry	1	V-16	SW-846 8260C	1/25/13	1/29/13 16:48	MFF
1,2-Dibromoethane (EDB)	ND	0.00081	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 16:48	MFF
Dibromomethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 16:48	MFF
1,2-Dichlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 16:48	MFF
1,3-Dichlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 16:48	MFF
1,4-Dichlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 16:48	MFF
trans-1,4-Dichloro-2-butene	ND	0.0032	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 16:48	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.016	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 16:48	MFF
1,1-Dichloroethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 16:48	MFF
1,2-Dichloroethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 16:48	MFF
1,1-Dichloroethylene	ND	0.0032	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 16:48	MFF
cis-1,2-Dichloroethylene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 16:48	MFF
trans-1,2-Dichloroethylene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 16:48	MFF
1,2-Dichloropropane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 16:48	MFF
1,3-Dichloropropane	ND	0.00081	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 16:48	MFF
2,2-Dichloropropane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 16:48	MFF
1,1-Dichloropropene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 16:48	MFF
cis-1,3-Dichloropropene	ND	0.00081	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 16:48	MFF
trans-1,3-Dichloropropene	ND	0.00081	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 16:48	MFF
Ethylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 16:48	MFF
Hexachlorobutadiene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 16:48	MFF
2-Hexanone (MBK)	ND	0.016	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 16:48	MFF
Isopropylbenzene (Cumene)	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 16:48	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 16:48	MFF



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273759

Sampled: 1/24/2013 12:35

Sample ID: 13A0643-37

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0032	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 16:48	MFF
Methylene Chloride	ND	0.016	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 16:48	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.016	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 16:48	MFF
Naphthalene	ND	0.0032	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 16:48	MFF
n-Propylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 16:48	MFF
Styrene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 16:48	MFF
1,1,1,2-Tetrachloroethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 16:48	MFF
1,1,2,2-Tetrachloroethane	ND	0.00081	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 16:48	MFF
Tetrachloroethylene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 16:48	MFF
Tetrahydrofuran	ND	0.0081	mg/Kg dry	1	V-16	SW-846 8260C	1/25/13	1/29/13 16:48	MFF
Toluene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 16:48	MFF
1,2,3-Trichlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 16:48	MFF
1,2,4-Trichlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 16:48	MFF
1,1,1-Trichloroethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 16:48	MFF
1,1,2-Trichloroethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 16:48	MFF
Trichloroethylene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 16:48	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0081	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 16:48	MFF
1,2,3-Trichloropropane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 16:48	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0081	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 16:48	MFF
1,2,4-Trimethylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 16:48	MFF
1,3,5-Trimethylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 16:48	MFF
Vinyl Chloride	ND	0.0081	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 16:48	MFF
m+p Xylene	ND	0.0032	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 16:48	MFF
o-Xylene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 16:48	MFF
Surrogates	% Recovery	Recovery Limits	Flag						
1,2-Dichloroethane-d4	106	70-130							
Toluene-d8	99.6	70-130							
4-Bromofluorobenzene	98.6	70-130							



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273759

Sampled: 1/24/2013 12:35

Sample ID: 13A0643-37

Sample Matrix: Soil

## Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 18:53	CMR
Acenaphthylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 18:53	CMR
Anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 18:53	CMR
Benzo(a)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 18:53	CMR
Benzo(a)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 18:53	CMR
Benzo(b)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 18:53	CMR
Benzo(g,h,i)perylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 18:53	CMR
Benzo(k)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 18:53	CMR
Chrysene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 18:53	CMR
Dibenz(a,h)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 18:53	CMR
Fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 18:53	CMR
Fluorene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 18:53	CMR
Indeno(1,2,3-cd)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 18:53	CMR
2-Methylnaphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 18:53	CMR
Naphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 18:53	CMR
Phenanthrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 18:53	CMR
Pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 18:53	CMR
Surrogates		% Recovery	Recovery Limits		Flag				
Nitrobenzene-d5		87.9	30-130					1/29/13 18:53	
2-Fluorobiphenyl		95.3	30-130					1/29/13 18:53	
Terphenyl-d14		118	30-130					1/29/13 18:53	



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273759

Sampled: 1/24/2013 12:35

Sample ID: 13A0643-37

Sample Matrix: Soil

### Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 16:09	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 16:09	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 16:09	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 16:09	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 16:09	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 16:09	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 16:09	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 16:09	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 16:09	JMB
Surrogates	% Recovery		Recovery Limits		Flag				
Decachlorobiphenyl [1]	76.3		30-150				1/29/13 16:09		
Decachlorobiphenyl [2]	77.0		30-150				1/29/13 16:09		
Tetrachloro-m-xylene [1]	70.2		30-150				1/29/13 16:09		
Tetrachloro-m-xylene [2]	71.9		30-150				1/29/13 16:09		



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

Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273759

Sampled: 1/24/2013 12:35

Sample ID: 13A0643-37

Sample Matrix: Soil

#### Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	ND	11	mg/Kg dry	1		CTDEP ETPH	1/30/13	1/31/13 13:54	SCS
Surrogates	% Recovery		Recovery Limits		Flag				
o-Terphenyl	81.7		50-150			1/31/13 13:54			



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273759

Sampled: 1/24/2013 12:35

Sample ID: 13A0643-37

Sample Matrix: Soil

**Metals Analyses (Total)**

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	2.6	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 17:39	KSH
Barium	23	2.6	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 17:39	KSH
Cadmium	ND	0.26	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 17:39	KSH
Chromium	5.0	0.53	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 17:39	KSH
Copper	3.8	0.53	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 17:39	KSH
Lead	2.1	0.79	mg/Kg dry	1		SW-846 6010C	1/25/13	1/30/13 13:15	KSH
Mercury	ND	0.027	mg/Kg dry	1		SW-846 7471B	1/25/13	1/29/13 12:06	AMP
Nickel	2.7	0.53	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 17:39	KSH
Selenium	ND	5.3	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 17:39	KSH
Silver	ND	0.53	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 17:39	KSH
Zinc	10	1.1	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 17:39	KSH



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

Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273759

Sampled: 1/24/2013 12:35

Sample ID: 13A0643-37

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	90.9		% Wt	1		SM 2540G	1/29/13	1/30/13 9:24	RH



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273768

Sampled: 1/24/2013 13:40

Sample ID: 13A0643-39

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.060	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 17:15	MFF
Acrylonitrile	ND	0.0036	mg/Kg dry	1	V-16	SW-846 8260C	1/25/13	1/29/13 17:15	MFF
Benzene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 17:15	MFF
Bromobenzene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 17:15	MFF
Bromodichloromethane	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 17:15	MFF
Bromoform	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 17:15	MFF
Bromomethane	ND	0.0060	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 17:15	MFF
2-Butanone (MEK)	ND	0.024	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 17:15	MFF
n-Butylbenzene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 17:15	MFF
sec-Butylbenzene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 17:15	MFF
tert-Butylbenzene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 17:15	MFF
Carbon Disulfide	ND	0.0036	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 17:15	MFF
Carbon Tetrachloride	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 17:15	MFF
Chlorobenzene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 17:15	MFF
Chlorodibromomethane	ND	0.00060	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 17:15	MFF
Chloroethane	ND	0.012	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 17:15	MFF
Chloroform	ND	0.0024	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 17:15	MFF
Chloromethane	ND	0.0060	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 17:15	MFF
2-Chlorotoluene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 17:15	MFF
4-Chlorotoluene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 17:15	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0012	mg/Kg dry	1	V-16	SW-846 8260C	1/25/13	1/29/13 17:15	MFF
1,2-Dibromoethane (EDB)	ND	0.00060	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 17:15	MFF
Dibromomethane	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 17:15	MFF
1,2-Dichlorobenzene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 17:15	MFF
1,3-Dichlorobenzene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 17:15	MFF
1,4-Dichlorobenzene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 17:15	MFF
trans-1,4-Dichloro-2-butene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 17:15	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.012	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 17:15	MFF
1,1-Dichloroethane	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 17:15	MFF
1,2-Dichloroethane	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 17:15	MFF
1,1-Dichloroethylene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 17:15	MFF
cis-1,2-Dichloroethylene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 17:15	MFF
trans-1,2-Dichloroethylene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 17:15	MFF
1,2-Dichloropropane	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 17:15	MFF
1,3-Dichloropropane	ND	0.00060	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 17:15	MFF
2,2-Dichloropropane	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 17:15	MFF
1,1-Dichloropropene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 17:15	MFF
cis-1,3-Dichloropropene	ND	0.00060	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 17:15	MFF
trans-1,3-Dichloropropene	ND	0.00060	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 17:15	MFF
Ethylbenzene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 17:15	MFF
Hexachlorobutadiene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 17:15	MFF
2-Hexanone (MBK)	ND	0.012	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 17:15	MFF
Isopropylbenzene (Cumene)	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 17:15	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 17:15	MFF



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273768

Sampled: 1/24/2013 13:40

Sample ID: 13A0643-39

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0024	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 17:15	MFF
Methylene Chloride	ND	0.012	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 17:15	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.012	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 17:15	MFF
Naphthalene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 17:15	MFF
n-Propylbenzene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 17:15	MFF
Styrene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 17:15	MFF
1,1,1,2-Tetrachloroethane	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 17:15	MFF
1,1,2,2-Tetrachloroethane	ND	0.00060	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 17:15	MFF
Tetrachloroethylene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 17:15	MFF
Tetrahydrofuran	ND	0.0060	mg/Kg dry	1	V-16	SW-846 8260C	1/25/13	1/29/13 17:15	MFF
Toluene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 17:15	MFF
1,2,3-Trichlorobenzene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 17:15	MFF
1,2,4-Trichlorobenzene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 17:15	MFF
1,1,1-Trichloroethane	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 17:15	MFF
1,1,2-Trichloroethane	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 17:15	MFF
Trichloroethylene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 17:15	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0060	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 17:15	MFF
1,2,3-Trichloropropane	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 17:15	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0060	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 17:15	MFF
1,2,4-Trimethylbenzene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 17:15	MFF
1,3,5-Trimethylbenzene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 17:15	MFF
Vinyl Chloride	ND	0.0060	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 17:15	MFF
m+p Xylene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 17:15	MFF
o-Xylene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/25/13	1/29/13 17:15	MFF
Surrogates	% Recovery	Recovery Limits	Flag						
1,2-Dichloroethane-d4	108	70-130							
Toluene-d8	98.0	70-130							
4-Bromofluorobenzene	90.7	70-130							



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273768

Sampled: 1/24/2013 13:40

Sample ID: 13A0643-39

Sample Matrix: Soil

## Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 21:03	CMR
Acenaphthylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 21:03	CMR
Anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 21:03	CMR
Benzo(a)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 21:03	CMR
Benzo(a)pyrene	0.24	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 21:03	CMR
Benzo(b)fluoranthene	0.40	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 21:03	CMR
Benzo(g,h,i)perylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 21:03	CMR
Benzo(k)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 21:03	CMR
Chrysene	0.24	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 21:03	CMR
Dibenz(a,h)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 21:03	CMR
Fluoranthene	0.36	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 21:03	CMR
Fluorene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 21:03	CMR
Indeno(1,2,3-cd)pyrene	0.27	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 21:03	CMR
2-Methylnaphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 21:03	CMR
Naphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 21:03	CMR
Phenanthrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 21:03	CMR
Pyrene	0.35	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 21:03	CMR
Surrogates	% Recovery		Recovery Limits		Flag				
Nitrobenzene-d5	103		30-130				1/29/13 21:03		
2-Fluorobiphenyl	107		30-130				1/29/13 21:03		
Terphenyl-d14	105		30-130				1/29/13 21:03		



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273768

Sampled: 1/24/2013 13:40

Sample ID: 13A0643-39

Sample Matrix: Soil

## Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.022	mg/Kg dry	1		SW-846 8081B	1/28/13	1/30/13 23:25	PJG
Aldrin [1]	ND	0.0054	mg/Kg dry	1		SW-846 8081B	1/28/13	1/30/13 23:25	PJG
alpha-BHC [1]	ND	0.0054	mg/Kg dry	1		SW-846 8081B	1/28/13	1/30/13 23:25	PJG
beta-BHC [1]	ND	0.0054	mg/Kg dry	1		SW-846 8081B	1/28/13	1/30/13 23:25	PJG
delta-BHC [1]	ND	0.0054	mg/Kg dry	1		SW-846 8081B	1/28/13	1/30/13 23:25	PJG
gamma-BHC (Lindane) [1]	ND	0.0022	mg/Kg dry	1		SW-846 8081B	1/28/13	1/30/13 23:25	PJG
Chlordane [1]	ND	0.022	mg/Kg dry	1		SW-846 8081B	1/28/13	1/30/13 23:25	PJG
4,4'-DDD [1]	ND	0.0043	mg/Kg dry	1		SW-846 8081B	1/28/13	1/30/13 23:25	PJG
4,4'-DDE [1]	ND	0.0043	mg/Kg dry	1		SW-846 8081B	1/28/13	1/30/13 23:25	PJG
4,4'-DDT [2]	ND	0.0043	mg/Kg dry	1		SW-846 8081B	1/28/13	1/30/13 23:25	PJG
Dieldrin [1]	ND	0.0043	mg/Kg dry	1		SW-846 8081B	1/28/13	1/30/13 23:25	PJG
Endosulfan I [1]	ND	0.0054	mg/Kg dry	1		SW-846 8081B	1/28/13	1/30/13 23:25	PJG
Endosulfan II [1]	ND	0.0086	mg/Kg dry	1		SW-846 8081B	1/28/13	1/30/13 23:25	PJG
Endosulfan sulfate [1]	ND	0.0086	mg/Kg dry	1		SW-846 8081B	1/28/13	1/30/13 23:25	PJG
Endrin [1]	ND	0.0086	mg/Kg dry	1		SW-846 8081B	1/28/13	1/30/13 23:25	PJG
Endrin aldehyde [1]	ND	0.0086	mg/Kg dry	1		SW-846 8081B	1/28/13	1/30/13 23:25	PJG
Endrin ketone [2]	ND	0.0086	mg/Kg dry	1		SW-846 8081B	1/28/13	1/30/13 23:25	PJG
Heptachlor [1]	ND	0.0054	mg/Kg dry	1		SW-846 8081B	1/28/13	1/30/13 23:25	PJG
Heptachlor epoxide [1]	ND	0.0054	mg/Kg dry	1		SW-846 8081B	1/28/13	1/30/13 23:25	PJG
Hexachlorobenzene [1]	ND	0.0065	mg/Kg dry	1		SW-846 8081B	1/28/13	1/30/13 23:25	PJG
Methoxychlor [1]	ND	0.054	mg/Kg dry	1		SW-846 8081B	1/28/13	1/30/13 23:25	PJG
Toxaphene [1]	ND	0.11	mg/Kg dry	1		SW-846 8081B	1/28/13	1/30/13 23:25	PJG
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	39.3	30-150							
Decachlorobiphenyl [2]	52.3	30-150							
Tetrachloro-m-xylene [1]	35.8	30-150							
Tetrachloro-m-xylene [2]	33.2	30-150							



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273768

Sampled: 1/24/2013 13:40

Sample ID: 13A0643-39

Sample Matrix: Soil

### Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 16:22	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 16:22	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 16:22	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 16:22	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 16:22	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 16:22	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 16:22	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 16:22	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 16:22	JMB
Surrogates	% Recovery		Recovery Limits		Flag				
Decachlorobiphenyl [1]	73.4		30-150				1/29/13 16:22		
Decachlorobiphenyl [2]	75.9		30-150				1/29/13 16:22		
Tetrachloro-m-xylene [1]	71.5		30-150				1/29/13 16:22		
Tetrachloro-m-xylene [2]	71.9		30-150				1/29/13 16:22		



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

Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273768

Sampled: 1/24/2013 13:40

Sample ID: 13A0643-39

Sample Matrix: Soil

#### Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	66	11	mg/Kg dry	1		CTDEP ETPH	1/30/13	1/31/13 16:31	SCS
Surrogates	% Recovery		Recovery Limits		Flag				
o-Terphenyl	79.7		50-150			1/31/13 16:31			



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273768

Sampled: 1/24/2013 13:40

Sample ID: 13A0643-39

Sample Matrix: Soil

**Metals Analyses (Total)**

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	2.7	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 17:45	KSH
Barium	53	2.7	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 17:45	KSH
Cadmium	ND	0.27	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 17:45	KSH
Chromium	14	0.53	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 17:45	KSH
Copper	17	0.53	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 17:45	KSH
Lead	7.4	0.80	mg/Kg dry	1		SW-846 6010C	1/25/13	1/30/13 13:21	KSH
Mercury	ND	0.027	mg/Kg dry	1		SW-846 7471B	1/25/13	1/29/13 12:08	AMP
Nickel	11	0.53	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 17:45	KSH
Selenium	ND	5.3	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 17:45	KSH
Silver	ND	0.53	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 17:45	KSH
Zinc	47	1.1	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 17:45	KSH



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

Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273768

Sampled: 1/24/2013 13:40

Sample ID: 13A0643-39

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	90.9		% Wt	1		SM 2540G	1/29/13	1/30/13 9:24	RH



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273769

Sampled: 1/24/2013 13:47

Sample ID: 13A0643-40

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.081	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:02	MFF
Acrylonitrile	ND	0.0049	mg/Kg dry	1	V-16	SW-846 8260C	1/25/13	1/30/13 9:02	MFF
Benzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:02	MFF
Bromobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:02	MFF
Bromodichloromethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:02	MFF
Bromoform	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:02	MFF
Bromomethane	ND	0.0081	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:02	MFF
2-Butanone (MEK)	ND	0.033	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:02	MFF
n-Butylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:02	MFF
sec-Butylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:02	MFF
tert-Butylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:02	MFF
Carbon Disulfide	ND	0.0049	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:02	MFF
Carbon Tetrachloride	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:02	MFF
Chlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:02	MFF
Chlorodibromomethane	ND	0.00081	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:02	MFF
Chloroethane	ND	0.016	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:02	MFF
Chloroform	ND	0.0033	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:02	MFF
Chloromethane	ND	0.0081	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:02	MFF
2-Chlorotoluene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:02	MFF
4-Chlorotoluene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:02	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0016	mg/Kg dry	1	V-16	SW-846 8260C	1/25/13	1/30/13 9:02	MFF
1,2-Dibromoethane (EDB)	ND	0.00081	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:02	MFF
Dibromomethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:02	MFF
1,2-Dichlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:02	MFF
1,3-Dichlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:02	MFF
1,4-Dichlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:02	MFF
trans-1,4-Dichloro-2-butene	ND	0.0033	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:02	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.016	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:02	MFF
1,1-Dichloroethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:02	MFF
1,2-Dichloroethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:02	MFF
1,1-Dichloroethylene	ND	0.0033	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:02	MFF
cis-1,2-Dichloroethylene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:02	MFF
trans-1,2-Dichloroethylene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:02	MFF
1,2-Dichloropropane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:02	MFF
1,3-Dichloropropane	ND	0.00081	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:02	MFF
2,2-Dichloropropane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:02	MFF
1,1-Dichloropropene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:02	MFF
cis-1,3-Dichloropropene	ND	0.00081	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:02	MFF
trans-1,3-Dichloropropene	ND	0.00081	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:02	MFF
Ethylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:02	MFF
Hexachlorobutadiene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:02	MFF
2-Hexanone (MBK)	ND	0.016	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:02	MFF
Isopropylbenzene (Cumene)	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:02	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:02	MFF



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273769

Sampled: 1/24/2013 13:47

Sample ID: 13A0643-40

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0033	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:02	MFF
Methylene Chloride	ND	0.016	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:02	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.016	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:02	MFF
Naphthalene	ND	0.0033	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:02	MFF
n-Propylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:02	MFF
Styrene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:02	MFF
1,1,1,2-Tetrachloroethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:02	MFF
1,1,2,2-Tetrachloroethane	ND	0.00081	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:02	MFF
Tetrachloroethylene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:02	MFF
Tetrahydrofuran	ND	0.0081	mg/Kg dry	1	V-16	SW-846 8260C	1/25/13	1/30/13 9:02	MFF
Toluene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:02	MFF
1,2,3-Trichlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:02	MFF
1,2,4-Trichlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:02	MFF
1,1,1-Trichloroethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:02	MFF
1,1,2-Trichloroethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:02	MFF
Trichloroethylene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:02	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0081	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:02	MFF
1,2,3-Trichloropropane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:02	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0081	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:02	MFF
1,2,4-Trimethylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:02	MFF
1,3,5-Trimethylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:02	MFF
Vinyl Chloride	ND	0.0081	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:02	MFF
m+p Xylene	ND	0.0033	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:02	MFF
o-Xylene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:02	MFF
Surrogates	% Recovery	Recovery Limits	Flag						
1,2-Dichloroethane-d4	105	70-130							
Toluene-d8	98.6	70-130							
4-Bromofluorobenzene	90.9	70-130							



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273769

Sampled: 1/24/2013 13:47

Sample ID: 13A0643-40

Sample Matrix: Soil

## Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 21:33	CMR
Acenaphthylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 21:33	CMR
Anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 21:33	CMR
Benzo(a)anthracene	0.41	0.18	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 21:33	CMR
Benzo(a)pyrene	0.48	0.18	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 21:33	CMR
Benzo(b)fluoranthene	0.74	0.18	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 21:33	CMR
Benzo(g,h,i)perylene	0.26	0.18	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 21:33	CMR
Benzo(k)fluoranthene	0.26	0.18	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 21:33	CMR
Chrysene	0.61	0.18	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 21:33	CMR
Dibenz(a,h)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 21:33	CMR
Fluoranthene	0.97	0.18	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 21:33	CMR
Fluorene	ND	0.18	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 21:33	CMR
Indeno(1,2,3-cd)pyrene	0.38	0.18	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 21:33	CMR
2-Methylnaphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 21:33	CMR
Naphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 21:33	CMR
Phenanthrene	0.65	0.18	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 21:33	CMR
Pyrene	0.95	0.18	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 21:33	CMR
Surrogates	% Recovery	Recovery Limits	Flag						
Nitrobenzene-d5	102	30-130							
2-Fluorobiphenyl	99.0	30-130							
Terphenyl-d14	103	30-130							



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273769

Sampled: 1/24/2013 13:47

Sample ID: 13A0643-40

Sample Matrix: Soil

### Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 16:34	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 16:34	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 16:34	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 16:34	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 16:34	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 16:34	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 16:34	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 16:34	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/26/13	1/29/13 16:34	JMB
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	72.3	30-150							
Decachlorobiphenyl [2]	74.6	30-150							
Tetrachloro-m-xylene [1]	68.4	30-150							
Tetrachloro-m-xylene [2]	69.2	30-150							



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

Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273769

Sampled: 1/24/2013 13:47

Sample ID: 13A0643-40

Sample Matrix: Soil

#### Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	61	11	mg/Kg dry	1		CTDEP ETPH	1/30/13	1/31/13 16:48	SCS
Surrogates	% Recovery		Recovery Limits		Flag				
o-Terphenyl	75.7		50-150			1/31/13 16:48			



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273769

Sampled: 1/24/2013 13:47

Sample ID: 13A0643-40

Sample Matrix: Soil

**Metals Analyses (Total)**

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	3.0	2.6	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 17:51	KSH
Barium	62	2.6	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 17:51	KSH
Cadmium	ND	0.26	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 17:51	KSH
Chromium	11	0.51	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 17:51	KSH
Copper	13	0.51	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 17:51	KSH
Lead	12	0.77	mg/Kg dry	1		SW-846 6010C	1/25/13	1/30/13 13:27	KSH
Mercury	ND	0.026	mg/Kg dry	1		SW-846 7471B	1/25/13	1/29/13 12:10	AMP
Nickel	7.5	0.51	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 17:51	KSH
Selenium	ND	5.1	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 17:51	KSH
Silver	ND	0.51	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 17:51	KSH
Zinc	32	1.0	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 17:51	KSH



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273769

Sampled: 1/24/2013 13:47

Sample ID: 13A0643-40

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.6		% Wt	1		SM 2540G	1/29/13	1/30/13 9:24	RH



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273770

Sampled: 1/24/2013 13:58

Sample ID: 13A0643-41

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.12	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:30	MFF
Acrylonitrile	ND	0.0074	mg/Kg dry	1	V-16	SW-846 8260C	1/25/13	1/30/13 9:30	MFF
Benzene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:30	MFF
Bromobenzene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:30	MFF
Bromodichloromethane	ND	0.0025	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:30	MFF
Bromoform	ND	0.0025	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:30	MFF
Bromomethane	ND	0.012	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:30	MFF
2-Butanone (MEK)	ND	0.049	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:30	MFF
n-Butylbenzene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:30	MFF
sec-Butylbenzene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:30	MFF
tert-Butylbenzene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:30	MFF
Carbon Disulfide	ND	0.0074	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:30	MFF
Carbon Tetrachloride	ND	0.0025	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:30	MFF
Chlorobenzene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:30	MFF
Chlorodibromomethane	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:30	MFF
Chloroethane	ND	0.025	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:30	MFF
Chloroform	ND	0.0049	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:30	MFF
Chloromethane	ND	0.012	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:30	MFF
2-Chlorotoluene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:30	MFF
4-Chlorotoluene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:30	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0025	mg/Kg dry	1	V-16	SW-846 8260C	1/25/13	1/30/13 9:30	MFF
1,2-Dibromoethane (EDB)	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:30	MFF
Dibromomethane	ND	0.0025	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:30	MFF
1,2-Dichlorobenzene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:30	MFF
1,3-Dichlorobenzene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:30	MFF
1,4-Dichlorobenzene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:30	MFF
trans-1,4-Dichloro-2-butene	ND	0.0049	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:30	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.025	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:30	MFF
1,1-Dichloroethane	ND	0.0025	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:30	MFF
1,2-Dichloroethane	ND	0.0025	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:30	MFF
1,1-Dichloroethylene	ND	0.0049	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:30	MFF
cis-1,2-Dichloroethylene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:30	MFF
trans-1,2-Dichloroethylene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:30	MFF
1,2-Dichloropropane	ND	0.0025	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:30	MFF
1,3-Dichloropropane	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:30	MFF
2,2-Dichloropropane	ND	0.0025	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:30	MFF
1,1-Dichloropropene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:30	MFF
cis-1,3-Dichloropropene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:30	MFF
trans-1,3-Dichloropropene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:30	MFF
Ethylbenzene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:30	MFF
Hexachlorobutadiene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:30	MFF
2-Hexanone (MBK)	ND	0.025	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:30	MFF
Isopropylbenzene (Cumene)	ND	0.0025	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:30	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0025	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:30	MFF



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273770

Sampled: 1/24/2013 13:58

Sample ID: 13A0643-41

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0049	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:30	MFF
Methylene Chloride	ND	0.025	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:30	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.025	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:30	MFF
Naphthalene	ND	0.0049	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:30	MFF
n-Propylbenzene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:30	MFF
Styrene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:30	MFF
1,1,1,2-Tetrachloroethane	ND	0.0025	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:30	MFF
1,1,2,2-Tetrachloroethane	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:30	MFF
Tetrachloroethylene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:30	MFF
Tetrahydrofuran	ND	0.012	mg/Kg dry	1	V-16	SW-846 8260C	1/25/13	1/30/13 9:30	MFF
Toluene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:30	MFF
1,2,3-Trichlorobenzene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:30	MFF
1,2,4-Trichlorobenzene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:30	MFF
1,1,1-Trichloroethane	ND	0.0025	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:30	MFF
1,1,2-Trichloroethane	ND	0.0025	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:30	MFF
Trichloroethylene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:30	MFF
Trichlorofluoromethane (Freon 11)	ND	0.012	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:30	MFF
1,2,3-Trichloropropane	ND	0.0025	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:30	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.012	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:30	MFF
1,2,4-Trimethylbenzene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:30	MFF
1,3,5-Trimethylbenzene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:30	MFF
Vinyl Chloride	ND	0.012	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:30	MFF
m+p Xylene	ND	0.0049	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:30	MFF
o-Xylene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:30	MFF
Surrogates	% Recovery	Recovery Limits	Flag						
1,2-Dichloroethane-d4	106	70-130							
Toluene-d8	98.2	70-130							
4-Bromofluorobenzene	85.5	70-130							



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273770

Sampled: 1/24/2013 13:58

Sample ID: 13A0643-41

Sample Matrix: Soil

## Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 23:04	CMR
Acenaphthylene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 23:04	CMR
Anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 23:04	CMR
Benzo(a)anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 23:04	CMR
Benzo(a)pyrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 23:04	CMR
Benzo(b)fluoranthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 23:04	CMR
Benzo(g,h,i)perylene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 23:04	CMR
Benzo(k)fluoranthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 23:04	CMR
Chrysene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 23:04	CMR
Dibenz(a,h)anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 23:04	CMR
Fluoranthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 23:04	CMR
Fluorene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 23:04	CMR
Indeno(1,2,3-cd)pyrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 23:04	CMR
2-Methylnaphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 23:04	CMR
Naphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 23:04	CMR
Phenanthrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 23:04	CMR
Pyrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 23:04	CMR
Surrogates	% Recovery	Recovery Limits	Flag						
Nitrobenzene-d5	99.7	30-130							
2-Fluorobiphenyl	92.2	30-130							
Terphenyl-d14	98.4	30-130							



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273770

Sampled: 1/24/2013 13:58

Sample ID: 13A0643-41

Sample Matrix: Soil

**Organochloride Pesticides by GC/ECD**

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.023	mg/Kg dry	1		SW-846 8081B	1/28/13	1/30/13 19:23	PJG
Aldrin [1]	ND	0.0057	mg/Kg dry	1		SW-846 8081B	1/28/13	1/30/13 19:23	PJG
alpha-BHC [1]	ND	0.0057	mg/Kg dry	1		SW-846 8081B	1/28/13	1/30/13 19:23	PJG
beta-BHC [1]	ND	0.0057	mg/Kg dry	1		SW-846 8081B	1/28/13	1/30/13 19:23	PJG
delta-BHC [1]	ND	0.0057	mg/Kg dry	1		SW-846 8081B	1/28/13	1/30/13 19:23	PJG
gamma-BHC (Lindane) [1]	ND	0.0023	mg/Kg dry	1		SW-846 8081B	1/28/13	1/30/13 19:23	PJG
Chlordane [1]	ND	0.023	mg/Kg dry	1		SW-846 8081B	1/28/13	1/30/13 19:23	PJG
4,4'-DDD [1]	ND	0.0046	mg/Kg dry	1		SW-846 8081B	1/28/13	1/30/13 19:23	PJG
4,4'-DDE [1]	ND	0.0046	mg/Kg dry	1		SW-846 8081B	1/28/13	1/30/13 19:23	PJG
4,4'-DDT [1]	ND	0.0046	mg/Kg dry	1		SW-846 8081B	1/28/13	1/30/13 19:23	PJG
Dieldrin [1]	ND	0.0046	mg/Kg dry	1		SW-846 8081B	1/28/13	1/30/13 19:23	PJG
Endosulfan I [1]	ND	0.0057	mg/Kg dry	1		SW-846 8081B	1/28/13	1/30/13 19:23	PJG
Endosulfan II [1]	ND	0.0092	mg/Kg dry	1		SW-846 8081B	1/28/13	1/30/13 19:23	PJG
Endosulfan sulfate [1]	ND	0.0092	mg/Kg dry	1		SW-846 8081B	1/28/13	1/30/13 19:23	PJG
Endrin [1]	ND	0.0092	mg/Kg dry	1		SW-846 8081B	1/28/13	1/30/13 19:23	PJG
Endrin aldehyde [1]	ND	0.0092	mg/Kg dry	1		SW-846 8081B	1/28/13	1/30/13 19:23	PJG
Endrin ketone [1]	ND	0.0092	mg/Kg dry	1		SW-846 8081B	1/28/13	1/30/13 19:23	PJG
Heptachlor [1]	ND	0.0057	mg/Kg dry	1		SW-846 8081B	1/28/13	1/30/13 19:23	PJG
Heptachlor epoxide [1]	ND	0.0057	mg/Kg dry	1		SW-846 8081B	1/28/13	1/30/13 19:23	PJG
Hexachlorobenzene [1]	ND	0.0069	mg/Kg dry	1		SW-846 8081B	1/28/13	1/30/13 19:23	PJG
Methoxychlor [1]	ND	0.057	mg/Kg dry	1		SW-846 8081B	1/28/13	1/30/13 19:23	PJG
Toxaphene [1]	ND	0.11	mg/Kg dry	1		SW-846 8081B	1/28/13	1/30/13 19:23	PJG
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	50.7	30-150							
Decachlorobiphenyl [2]	48.3	30-150							
Tetrachloro-m-xylene [1]	50.1	30-150							
Tetrachloro-m-xylene [2]	48.4	30-150							



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273770

Sampled: 1/24/2013 13:58

Sample ID: 13A0643-41

Sample Matrix: Soil

### Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/28/13	1/31/13 12:52	MJC
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/28/13	1/31/13 12:52	MJC
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/28/13	1/31/13 12:52	MJC
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/28/13	1/31/13 12:52	MJC
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/28/13	1/31/13 12:52	MJC
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/28/13	1/31/13 12:52	MJC
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/28/13	1/31/13 12:52	MJC
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/28/13	1/31/13 12:52	MJC
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/28/13	1/31/13 12:52	MJC
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	48.8	30-150							
Decachlorobiphenyl [2]	48.7	30-150							
Tetrachloro-m-xylene [1]	45.6	30-150							
Tetrachloro-m-xylene [2]	46.9	30-150							



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

Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273770

Sampled: 1/24/2013 13:58

Sample ID: 13A0643-41

Sample Matrix: Soil

#### Herbicides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-D [2]	ND	28	µg/Kg dry	1		SW-846 8151A	1/29/13	2/1/13 3:57	PJG
2,4,5-TP (Silvex) [2]	ND	2.8	µg/Kg dry	1		SW-846 8151A	1/29/13	2/1/13 3:57	PJG
2,4,5-T [2]	ND	2.8	µg/Kg dry	1		SW-846 8151A	1/29/13	2/1/13 3:57	PJG
Dalapon [2]	ND	70	µg/Kg dry	1		SW-846 8151A	1/29/13	2/1/13 3:57	PJG
Dicamba [2]	ND	2.8	µg/Kg dry	1	V-20	SW-846 8151A	1/29/13	2/1/13 3:57	PJG
Surrogates	% Recovery		Recovery Limits		Flag				
2,4-Dichlorophenylacetic acid [1]	86.8		30-150				2/1/13 3:57		
2,4-Dichlorophenylacetic acid [2]	98.9		30-150				2/1/13 3:57		



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

Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273770

Sampled: 1/24/2013 13:58

Sample ID: 13A0643-41

Sample Matrix: Soil

#### Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	38	12	mg/Kg dry	1		CTDEP ETPH	1/30/13	1/31/13 14:11	SCS
Surrogates	% Recovery		Recovery Limits		Flag				
o-Terphenyl	62.4		50-150			1/31/13 14:11			



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273770

Sampled: 1/24/2013 13:58

Sample ID: 13A0643-41

Sample Matrix: Soil

**Metals Analyses (Total)**

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	2.9	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 17:56	KSH
Barium	52	2.9	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 17:56	KSH
Cadmium	ND	0.29	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 17:56	KSH
Chromium	16	0.58	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 17:56	KSH
Copper	9.7	0.58	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 17:56	KSH
Lead	8.3	0.86	mg/Kg dry	1		SW-846 6010C	1/25/13	1/30/13 13:32	KSH
Mercury	0.043	0.029	mg/Kg dry	1		SW-846 7471B	1/25/13	1/29/13 12:11	AMP
Nickel	9.8	0.58	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 17:56	KSH
Selenium	ND	5.8	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 17:56	KSH
Silver	ND	0.58	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 17:56	KSH
Zinc	28	1.2	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 17:56	KSH



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273770

Sampled: 1/24/2013 13:58

Sample ID: 13A0643-41

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	86.1		% Wt	1		SM 2540G	1/29/13	1/30/13 9:24	RH



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273771

Sampled: 1/24/2013 14:03

Sample ID: 13A0643-42

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.13	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:57	MFF
Acrylonitrile	ND	0.0080	mg/Kg dry	1	V-16	SW-846 8260C	1/25/13	1/30/13 9:57	MFF
Benzene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:57	MFF
Bromobenzene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:57	MFF
Bromodichloromethane	ND	0.0027	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:57	MFF
Bromoform	ND	0.0027	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:57	MFF
Bromomethane	ND	0.013	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:57	MFF
2-Butanone (MEK)	ND	0.053	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:57	MFF
n-Butylbenzene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:57	MFF
sec-Butylbenzene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:57	MFF
tert-Butylbenzene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:57	MFF
Carbon Disulfide	ND	0.0080	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:57	MFF
Carbon Tetrachloride	ND	0.0027	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:57	MFF
Chlorobenzene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:57	MFF
Chlorodibromomethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:57	MFF
Chloroethane	ND	0.027	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:57	MFF
Chloroform	ND	0.0053	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:57	MFF
Chloromethane	ND	0.013	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:57	MFF
2-Chlorotoluene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:57	MFF
4-Chlorotoluene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:57	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0027	mg/Kg dry	1	V-16	SW-846 8260C	1/25/13	1/30/13 9:57	MFF
1,2-Dibromoethane (EDB)	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:57	MFF
Dibromomethane	ND	0.0027	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:57	MFF
1,2-Dichlorobenzene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:57	MFF
1,3-Dichlorobenzene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:57	MFF
1,4-Dichlorobenzene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:57	MFF
trans-1,4-Dichloro-2-butene	ND	0.0053	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:57	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.027	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:57	MFF
1,1-Dichloroethane	ND	0.0027	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:57	MFF
1,2-Dichloroethane	ND	0.0027	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:57	MFF
1,1-Dichloroethylene	ND	0.0053	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:57	MFF
cis-1,2-Dichloroethylene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:57	MFF
trans-1,2-Dichloroethylene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:57	MFF
1,2-Dichloropropane	ND	0.0027	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:57	MFF
1,3-Dichloropropane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:57	MFF
2,2-Dichloropropane	ND	0.0027	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:57	MFF
1,1-Dichloropropene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:57	MFF
cis-1,3-Dichloropropene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:57	MFF
trans-1,3-Dichloropropene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:57	MFF
Ethylbenzene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:57	MFF
Hexachlorobutadiene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:57	MFF
2-Hexanone (MBK)	ND	0.027	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:57	MFF
Isopropylbenzene (Cumene)	ND	0.0027	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:57	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0027	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:57	MFF



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273771

Sampled: 1/24/2013 14:03

Sample ID: 13A0643-42

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0053	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:57	MFF
Methylene Chloride	ND	0.027	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:57	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.027	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:57	MFF
Naphthalene	ND	0.0053	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:57	MFF
n-Propylbenzene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:57	MFF
Styrene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:57	MFF
1,1,1,2-Tetrachloroethane	ND	0.0027	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:57	MFF
1,1,2,2-Tetrachloroethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:57	MFF
Tetrachloroethylene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:57	MFF
Tetrahydrofuran	ND	0.013	mg/Kg dry	1	V-16	SW-846 8260C	1/25/13	1/30/13 9:57	MFF
Toluene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:57	MFF
1,2,3-Trichlorobenzene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:57	MFF
1,2,4-Trichlorobenzene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:57	MFF
1,1,1-Trichloroethane	ND	0.0027	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:57	MFF
1,1,2-Trichloroethane	ND	0.0027	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:57	MFF
Trichloroethylene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:57	MFF
Trichlorofluoromethane (Freon 11)	ND	0.013	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:57	MFF
1,2,3-Trichloropropane	ND	0.0027	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:57	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.013	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:57	MFF
1,2,4-Trimethylbenzene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:57	MFF
1,3,5-Trimethylbenzene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:57	MFF
Vinyl Chloride	ND	0.013	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:57	MFF
m+p Xylene	ND	0.0053	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:57	MFF
o-Xylene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 9:57	MFF
Surrogates	% Recovery	Recovery Limits	Flag						
1,2-Dichloroethane-d4	107	70-130							
Toluene-d8	98.9	70-130							
4-Bromofluorobenzene	86.7	70-130							



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273771

Sampled: 1/24/2013 14:03

Sample ID: 13A0643-42

Sample Matrix: Soil

## Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 20:01	CMR
Acenaphthylene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 20:01	CMR
Anthracene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 20:01	CMR
Benzo(a)anthracene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 20:01	CMR
Benzo(a)pyrene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 20:01	CMR
Benzo(b)fluoranthene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 20:01	CMR
Benzo(g,h,i)perylene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 20:01	CMR
Benzo(k)fluoranthene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 20:01	CMR
Chrysene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 20:01	CMR
Dibenz(a,h)anthracene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 20:01	CMR
Fluoranthene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 20:01	CMR
Fluorene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 20:01	CMR
Indeno(1,2,3-cd)pyrene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 20:01	CMR
2-Methylnaphthalene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 20:01	CMR
Naphthalene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 20:01	CMR
Phenanthrene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 20:01	CMR
Pyrene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 20:01	CMR
Surrogates	% Recovery	Recovery Limits	Flag						
Nitrobenzene-d5	80.9	30-130							
2-Fluorobiphenyl	81.9	30-130							
Terphenyl-d14	110	30-130							



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273771

Sampled: 1/24/2013 14:03

Sample ID: 13A0643-42

Sample Matrix: Soil

## Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.025	mg/Kg dry	1		SW-846 8081B	1/28/13	1/30/13 19:44	PJG
Aldrin [1]	ND	0.0062	mg/Kg dry	1		SW-846 8081B	1/28/13	1/30/13 19:44	PJG
alpha-BHC [1]	ND	0.0062	mg/Kg dry	1		SW-846 8081B	1/28/13	1/30/13 19:44	PJG
beta-BHC [1]	ND	0.0062	mg/Kg dry	1		SW-846 8081B	1/28/13	1/30/13 19:44	PJG
delta-BHC [1]	ND	0.0062	mg/Kg dry	1		SW-846 8081B	1/28/13	1/30/13 19:44	PJG
gamma-BHC (Lindane) [1]	ND	0.0025	mg/Kg dry	1		SW-846 8081B	1/28/13	1/30/13 19:44	PJG
Chlordane [1]	ND	0.025	mg/Kg dry	1		SW-846 8081B	1/28/13	1/30/13 19:44	PJG
4,4'-DDD [1]	ND	0.0050	mg/Kg dry	1		SW-846 8081B	1/28/13	1/30/13 19:44	PJG
4,4'-DDE [1]	ND	0.0050	mg/Kg dry	1		SW-846 8081B	1/28/13	1/30/13 19:44	PJG
4,4'-DDT [1]	ND	0.0050	mg/Kg dry	1		SW-846 8081B	1/28/13	1/30/13 19:44	PJG
Dieldrin [1]	ND	0.0050	mg/Kg dry	1		SW-846 8081B	1/28/13	1/30/13 19:44	PJG
Endosulfan I [1]	ND	0.0062	mg/Kg dry	1		SW-846 8081B	1/28/13	1/30/13 19:44	PJG
Endosulfan II [1]	ND	0.010	mg/Kg dry	1		SW-846 8081B	1/28/13	1/30/13 19:44	PJG
Endosulfan sulfate [1]	ND	0.010	mg/Kg dry	1		SW-846 8081B	1/28/13	1/30/13 19:44	PJG
Endrin [1]	ND	0.010	mg/Kg dry	1		SW-846 8081B	1/28/13	1/30/13 19:44	PJG
Endrin aldehyde [1]	ND	0.010	mg/Kg dry	1		SW-846 8081B	1/28/13	1/30/13 19:44	PJG
Endrin ketone [1]	ND	0.010	mg/Kg dry	1		SW-846 8081B	1/28/13	1/30/13 19:44	PJG
Heptachlor [1]	ND	0.0062	mg/Kg dry	1		SW-846 8081B	1/28/13	1/30/13 19:44	PJG
Heptachlor epoxide [1]	ND	0.0062	mg/Kg dry	1		SW-846 8081B	1/28/13	1/30/13 19:44	PJG
Hexachlorobenzene [1]	ND	0.0075	mg/Kg dry	1		SW-846 8081B	1/28/13	1/30/13 19:44	PJG
Methoxychlor [1]	ND	0.062	mg/Kg dry	1		SW-846 8081B	1/28/13	1/30/13 19:44	PJG
Toxaphene [1]	ND	0.12	mg/Kg dry	1		SW-846 8081B	1/28/13	1/30/13 19:44	PJG
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	46.9	30-150							
Decachlorobiphenyl [2]	45.3	30-150							
Tetrachloro-m-xylene [1]	46.5	30-150							
Tetrachloro-m-xylene [2]	44.8	30-150							



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273771

Sampled: 1/24/2013 14:03

Sample ID: 13A0643-42

Sample Matrix: Soil

### Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	1/28/13	1/31/13 13:04	MJC
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	1/28/13	1/31/13 13:04	MJC
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	1/28/13	1/31/13 13:04	MJC
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	1/28/13	1/31/13 13:04	MJC
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	1/28/13	1/31/13 13:04	MJC
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	1/28/13	1/31/13 13:04	MJC
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	1/28/13	1/31/13 13:04	MJC
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	1/28/13	1/31/13 13:04	MJC
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	1/28/13	1/31/13 13:04	MJC
Surrogates		% Recovery	Recovery Limits		Flag				
Decachlorobiphenyl [1]		41.6	30-150					1/31/13 13:04	
Decachlorobiphenyl [2]		42.0	30-150					1/31/13 13:04	
Tetrachloro-m-xylene [1]		39.5	30-150					1/31/13 13:04	
Tetrachloro-m-xylene [2]		41.2	30-150					1/31/13 13:04	



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273771

Sampled: 1/24/2013 14:03

Sample ID: 13A0643-42

Sample Matrix: Soil

### Herbicides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-D [2]	ND	31	µg/Kg dry	1		SW-846 8151A	1/29/13	2/1/13 4:25	PJG
2,4,5-TP (Silvex) [2]	ND	3.1	µg/Kg dry	1		SW-846 8151A	1/29/13	2/1/13 4:25	PJG
2,4,5-T [2]	ND	3.1	µg/Kg dry	1		SW-846 8151A	1/29/13	2/1/13 4:25	PJG
Dalapon [2]	ND	78	µg/Kg dry	1		SW-846 8151A	1/29/13	2/1/13 4:25	PJG
Dicamba [2]	ND	3.1	µg/Kg dry	1	V-20	SW-846 8151A	1/29/13	2/1/13 4:25	PJG
Surrogates	% Recovery	Recovery Limits	Flag						
2,4-Dichlorophenylacetic acid [1]	63.7	30-150							
2,4-Dichlorophenylacetic acid [2]	74.0	30-150							



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

Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273771

Sampled: 1/24/2013 14:03

Sample ID: 13A0643-42

Sample Matrix: Soil

Sample Flags: DL-03

#### Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	47	24	mg/Kg dry	1		CTDEP ETPH	1/29/13	1/31/13 14:29	SCS
Surrogates	% Recovery		Recovery Limits		Flag				
o-Terphenyl	82.6		50-150			1/31/13 14:29			



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273771

Sampled: 1/24/2013 14:03

Sample ID: 13A0643-42

Sample Matrix: Soil

**Metals Analyses (Total)**

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	2.9	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 18:02	KSH
Barium	50	2.9	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 18:02	KSH
Cadmium	ND	0.29	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 18:02	KSH
Chromium	16	0.59	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 18:02	KSH
Copper	11	0.59	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 18:02	KSH
Lead	8.1	0.88	mg/Kg dry	1		SW-846 6010C	1/25/13	1/30/13 13:38	KSH
Mercury	0.041	0.031	mg/Kg dry	1		SW-846 7471B	1/25/13	1/29/13 12:13	AMP
Nickel	8.5	0.59	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 18:02	KSH
Selenium	ND	5.9	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 18:02	KSH
Silver	ND	0.59	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 18:02	KSH
Zinc	27	1.2	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 18:02	KSH



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

Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273771

Sampled: 1/24/2013 14:03

Sample ID: 13A0643-42

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	79.6		% Wt	1		SM 2540G	1/29/13	1/30/13 9:24	RH



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273773

Sampled: 1/24/2013 14:13

Sample ID: 13A0643-44

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.076	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 10:24	MFF
Acrylonitrile	ND	0.0046	mg/Kg dry	1	V-16	SW-846 8260C	1/25/13	1/30/13 10:24	MFF
Benzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 10:24	MFF
Bromobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 10:24	MFF
Bromodichloromethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 10:24	MFF
Bromoform	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 10:24	MFF
Bromomethane	ND	0.0076	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 10:24	MFF
2-Butanone (MEK)	ND	0.030	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 10:24	MFF
n-Butylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 10:24	MFF
sec-Butylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 10:24	MFF
tert-Butylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 10:24	MFF
Carbon Disulfide	ND	0.0046	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 10:24	MFF
Carbon Tetrachloride	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 10:24	MFF
Chlorobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 10:24	MFF
Chlorodibromomethane	ND	0.00076	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 10:24	MFF
Chloroethane	ND	0.015	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 10:24	MFF
Chloroform	ND	0.0030	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 10:24	MFF
Chloromethane	ND	0.0076	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 10:24	MFF
2-Chlorotoluene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 10:24	MFF
4-Chlorotoluene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 10:24	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0015	mg/Kg dry	1	V-16	SW-846 8260C	1/25/13	1/30/13 10:24	MFF
1,2-Dibromoethane (EDB)	ND	0.00076	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 10:24	MFF
Dibromomethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 10:24	MFF
1,2-Dichlorobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 10:24	MFF
1,3-Dichlorobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 10:24	MFF
1,4-Dichlorobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 10:24	MFF
trans-1,4-Dichloro-2-butene	ND	0.0030	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 10:24	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.015	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 10:24	MFF
1,1-Dichloroethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 10:24	MFF
1,2-Dichloroethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 10:24	MFF
1,1-Dichloroethylene	ND	0.0030	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 10:24	MFF
cis-1,2-Dichloroethylene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 10:24	MFF
trans-1,2-Dichloroethylene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 10:24	MFF
1,2-Dichloropropane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 10:24	MFF
1,3-Dichloropropane	ND	0.00076	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 10:24	MFF
2,2-Dichloropropane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 10:24	MFF
1,1-Dichloropropene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 10:24	MFF
cis-1,3-Dichloropropene	ND	0.00076	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 10:24	MFF
trans-1,3-Dichloropropene	ND	0.00076	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 10:24	MFF
Ethylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 10:24	MFF
Hexachlorobutadiene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 10:24	MFF
2-Hexanone (MBK)	ND	0.015	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 10:24	MFF
Isopropylbenzene (Cumene)	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 10:24	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 10:24	MFF



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273773

Sampled: 1/24/2013 14:13

Sample ID: 13A0643-44

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0030	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 10:24	MFF
Methylene Chloride	ND	0.015	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 10:24	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.015	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 10:24	MFF
Naphthalene	ND	0.0030	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 10:24	MFF
n-Propylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 10:24	MFF
Styrene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 10:24	MFF
1,1,1,2-Tetrachloroethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 10:24	MFF
1,1,2,2-Tetrachloroethane	ND	0.00076	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 10:24	MFF
Tetrachloroethylene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 10:24	MFF
Tetrahydrofuran	ND	0.0076	mg/Kg dry	1	V-16	SW-846 8260C	1/25/13	1/30/13 10:24	MFF
Toluene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 10:24	MFF
1,2,3-Trichlorobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 10:24	MFF
1,2,4-Trichlorobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 10:24	MFF
1,1,1-Trichloroethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 10:24	MFF
1,1,2-Trichloroethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 10:24	MFF
Trichloroethylene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 10:24	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0076	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 10:24	MFF
1,2,3-Trichloropropane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 10:24	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0076	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 10:24	MFF
1,2,4-Trimethylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 10:24	MFF
1,3,5-Trimethylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 10:24	MFF
Vinyl Chloride	ND	0.0076	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 10:24	MFF
m+p Xylene	ND	0.0030	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 10:24	MFF
o-Xylene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 10:24	MFF
Surrogates	% Recovery	Recovery Limits	Flag						
1,2-Dichloroethane-d4	105	70-130							
Toluene-d8	99.8	70-130							
4-Bromofluorobenzene	99.1	70-130							



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273773

Sampled: 1/24/2013 14:13

Sample ID: 13A0643-44

Sample Matrix: Soil

## Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 20:34	CMR
Acenaphthylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 20:34	CMR
Anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 20:34	CMR
Benzo(a)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 20:34	CMR
Benzo(a)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 20:34	CMR
Benzo(b)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 20:34	CMR
Benzo(g,h,i)perylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 20:34	CMR
Benzo(k)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 20:34	CMR
Chrysene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 20:34	CMR
Dibenz(a,h)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 20:34	CMR
Fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 20:34	CMR
Fluorene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 20:34	CMR
Indeno(1,2,3-cd)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 20:34	CMR
2-Methylnaphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 20:34	CMR
Naphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 20:34	CMR
Phenanthrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 20:34	CMR
Pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 20:34	CMR
Surrogates		% Recovery	Recovery Limits		Flag				
Nitrobenzene-d5		85.4	30-130					1/29/13 20:34	
2-Fluorobiphenyl		89.8	30-130					1/29/13 20:34	
Terphenyl-d14		120	30-130					1/29/13 20:34	



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273773

Sampled: 1/24/2013 14:13

Sample ID: 13A0643-44

Sample Matrix: Soil

### Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/28/13	1/31/13 13:17	MJC
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/28/13	1/31/13 13:17	MJC
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/28/13	1/31/13 13:17	MJC
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/28/13	1/31/13 13:17	MJC
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/28/13	1/31/13 13:17	MJC
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/28/13	1/31/13 13:17	MJC
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/28/13	1/31/13 13:17	MJC
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/28/13	1/31/13 13:17	MJC
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/28/13	1/31/13 13:17	MJC
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	34.7	30-150							
Decachlorobiphenyl [2]	34.9	30-150							
Tetrachloro-m-xylene [1]	31.9	30-150							
Tetrachloro-m-xylene [2]	33.4	30-150							



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

Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273773

Sampled: 1/24/2013 14:13

Sample ID: 13A0643-44

Sample Matrix: Soil

#### Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	ND	11	mg/Kg dry	1		CTDEP ETPH	1/29/13	1/30/13 16:59	CJM
Surrogates	% Recovery		Recovery Limits		Flag				
o-Terphenyl	67.0		50-150			1/30/13 16:59			



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273773

Sampled: 1/24/2013 14:13

Sample ID: 13A0643-44

Sample Matrix: Soil

# Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	2.7	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 18:07	KSH
Barium	22	2.7	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 18:07	KSH
Cadmium	ND	0.27	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 18:07	KSH
Chromium	5.7	0.53	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 18:07	KSH
Copper	4.3	0.53	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 18:07	KSH
Lead	1.8	0.80	mg/Kg dry	1		SW-846 6010C	1/25/13	1/30/13 13:44	KSH
Mercury	ND	0.027	mg/Kg dry	1		SW-846 7471B	1/25/13	1/29/13 12:14	AMP
Nickel	2.8	0.53	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 18:07	KSH
Selenium	ND	5.3	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 18:07	KSH
Silver	ND	0.53	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 18:07	KSH
Zinc	14	1.1	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 18:07	KSH



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273773

Sampled: 1/24/2013 14:13

Sample ID: 13A0643-44

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	90.7		% Wt	1		SM 2540G	1/29/13	1/30/13 9:24	RH



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273775

Sampled: 1/24/2013 14:38

Sample ID: 13A0643-46

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.10	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 14:02	MFF
Acrylonitrile	ND	0.0063	mg/Kg dry	1	V-16	SW-846 8260C	1/25/13	1/30/13 14:02	MFF
Benzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 14:02	MFF
Bromobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 14:02	MFF
Bromodichloromethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 14:02	MFF
Bromoform	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 14:02	MFF
Bromomethane	ND	0.010	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 14:02	MFF
2-Butanone (MEK)	ND	0.042	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 14:02	MFF
n-Butylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 14:02	MFF
sec-Butylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 14:02	MFF
tert-Butylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 14:02	MFF
Carbon Disulfide	ND	0.0063	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 14:02	MFF
Carbon Tetrachloride	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 14:02	MFF
Chlorobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 14:02	MFF
Chlorodibromomethane	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 14:02	MFF
Chloroethane	ND	0.021	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 14:02	MFF
Chloroform	ND	0.0042	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 14:02	MFF
Chloromethane	ND	0.010	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 14:02	MFF
2-Chlorotoluene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 14:02	MFF
4-Chlorotoluene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 14:02	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0021	mg/Kg dry	1	V-16	SW-846 8260C	1/25/13	1/30/13 14:02	MFF
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 14:02	MFF
Dibromomethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 14:02	MFF
1,2-Dichlorobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 14:02	MFF
1,3-Dichlorobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 14:02	MFF
1,4-Dichlorobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 14:02	MFF
trans-1,4-Dichloro-2-butene	ND	0.0042	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 14:02	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.021	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 14:02	MFF
1,1-Dichloroethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 14:02	MFF
1,2-Dichloroethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 14:02	MFF
1,1-Dichloroethylene	ND	0.0042	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 14:02	MFF
cis-1,2-Dichloroethylene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 14:02	MFF
trans-1,2-Dichloroethylene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 14:02	MFF
1,2-Dichloropropane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 14:02	MFF
1,3-Dichloropropane	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 14:02	MFF
2,2-Dichloropropane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 14:02	MFF
1,1-Dichloropropene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 14:02	MFF
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 14:02	MFF
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 14:02	MFF
Ethylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 14:02	MFF
Hexachlorobutadiene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 14:02	MFF
2-Hexanone (MBK)	ND	0.021	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 14:02	MFF
Isopropylbenzene (Cumene)	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 14:02	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 14:02	MFF



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273775

Sampled: 1/24/2013 14:38

Sample ID: 13A0643-46

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0042	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 14:02	MFF
Methylene Chloride	ND	0.021	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 14:02	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.021	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 14:02	MFF
Naphthalene	ND	0.0042	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 14:02	MFF
n-Propylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 14:02	MFF
Styrene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 14:02	MFF
1,1,1,2-Tetrachloroethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 14:02	MFF
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 14:02	MFF
Tetrachloroethylene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 14:02	MFF
Tetrahydrofuran	ND	0.010	mg/Kg dry	1	V-16	SW-846 8260C	1/25/13	1/30/13 14:02	MFF
Toluene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 14:02	MFF
1,2,3-Trichlorobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 14:02	MFF
1,2,4-Trichlorobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 14:02	MFF
1,1,1-Trichloroethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 14:02	MFF
1,1,2-Trichloroethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 14:02	MFF
Trichloroethylene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 14:02	MFF
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 14:02	MFF
1,2,3-Trichloropropane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 14:02	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 14:02	MFF
1,2,4-Trimethylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 14:02	MFF
1,3,5-Trimethylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 14:02	MFF
Vinyl Chloride	ND	0.010	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 14:02	MFF
m+p Xylene	ND	0.0042	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 14:02	MFF
o-Xylene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 14:02	MFF
Surrogates	% Recovery	Recovery Limits	Flag						
1,2-Dichloroethane-d4	102	70-130							
Toluene-d8	96.6	70-130							
4-Bromofluorobenzene	83.0	70-130							



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273775

Sampled: 1/24/2013 14:38

Sample ID: 13A0643-46

Sample Matrix: Soil

## Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 22:34	CMR
Acenaphthylene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 22:34	CMR
Anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 22:34	CMR
Benzo(a)anthracene	0.28	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 22:34	CMR
Benzo(a)pyrene	0.29	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 22:34	CMR
Benzo(b)fluoranthene	0.45	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 22:34	CMR
Benzo(g,h,i)perylene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 22:34	CMR
Benzo(k)fluoranthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 22:34	CMR
Chrysene	0.34	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 22:34	CMR
Dibenz(a,h)anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 22:34	CMR
Fluoranthene	0.63	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 22:34	CMR
Fluorene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 22:34	CMR
Indeno(1,2,3-cd)pyrene	0.27	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 22:34	CMR
2-Methylnaphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 22:34	CMR
Naphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 22:34	CMR
Phenanthrene	0.32	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 22:34	CMR
Pyrene	0.54	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 22:34	CMR
Surrogates	% Recovery	Recovery Limits	Flag						
Nitrobenzene-d5	93.1	30-130							
2-Fluorobiphenyl	100	30-130							
Terphenyl-d14	90.9	30-130							



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273775

Sampled: 1/24/2013 14:38

Sample ID: 13A0643-46

Sample Matrix: Soil

## Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.024	mg/Kg dry	1		SW-846 8081B	1/28/13	1/30/13 23:05	PJG
Aldrin [1]	ND	0.0059	mg/Kg dry	1		SW-846 8081B	1/28/13	1/30/13 23:05	PJG
alpha-BHC [1]	ND	0.0059	mg/Kg dry	1		SW-846 8081B	1/28/13	1/30/13 23:05	PJG
beta-BHC [1]	ND	0.0059	mg/Kg dry	1		SW-846 8081B	1/28/13	1/30/13 23:05	PJG
delta-BHC [1]	ND	0.0059	mg/Kg dry	1		SW-846 8081B	1/28/13	1/30/13 23:05	PJG
gamma-BHC (Lindane) [1]	ND	0.0024	mg/Kg dry	1		SW-846 8081B	1/28/13	1/30/13 23:05	PJG
Chlordane [1]	ND	0.024	mg/Kg dry	1		SW-846 8081B	1/28/13	1/30/13 23:05	PJG
4,4'-DDD [1]	ND	0.0047	mg/Kg dry	1		SW-846 8081B	1/28/13	1/30/13 23:05	PJG
4,4'-DDE [1]	ND	0.0047	mg/Kg dry	1		SW-846 8081B	1/28/13	1/30/13 23:05	PJG
4,4'-DDT [1]	ND	0.0047	mg/Kg dry	1		SW-846 8081B	1/28/13	1/30/13 23:05	PJG
Dieldrin [1]	ND	0.0047	mg/Kg dry	1		SW-846 8081B	1/28/13	1/30/13 23:05	PJG
Endosulfan I [1]	ND	0.0059	mg/Kg dry	1		SW-846 8081B	1/28/13	1/30/13 23:05	PJG
Endosulfan II [1]	ND	0.0094	mg/Kg dry	1		SW-846 8081B	1/28/13	1/30/13 23:05	PJG
Endosulfan sulfate [1]	ND	0.0094	mg/Kg dry	1		SW-846 8081B	1/28/13	1/30/13 23:05	PJG
Endrin [1]	ND	0.0094	mg/Kg dry	1		SW-846 8081B	1/28/13	1/30/13 23:05	PJG
Endrin aldehyde [1]	ND	0.0094	mg/Kg dry	1		SW-846 8081B	1/28/13	1/30/13 23:05	PJG
Endrin ketone [1]	ND	0.0094	mg/Kg dry	1		SW-846 8081B	1/28/13	1/30/13 23:05	PJG
Heptachlor [1]	ND	0.0059	mg/Kg dry	1		SW-846 8081B	1/28/13	1/30/13 23:05	PJG
Heptachlor epoxide [1]	ND	0.0059	mg/Kg dry	1		SW-846 8081B	1/28/13	1/30/13 23:05	PJG
Hexachlorobenzene [1]	ND	0.0071	mg/Kg dry	1		SW-846 8081B	1/28/13	1/30/13 23:05	PJG
Methoxychlor [1]	ND	0.059	mg/Kg dry	1		SW-846 8081B	1/28/13	1/30/13 23:05	PJG
Toxaphene [1]	ND	0.12	mg/Kg dry	1		SW-846 8081B	1/28/13	1/30/13 23:05	PJG
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	54.5	30-150							
Decachlorobiphenyl [2]	61.4	30-150							
Tetrachloro-m-xylene [1]	56.7	30-150							
Tetrachloro-m-xylene [2]	53.8	30-150							



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273775

Sampled: 1/24/2013 14:38

Sample ID: 13A0643-46

Sample Matrix: Soil

### Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	1/28/13	1/31/13 13:29	MJC
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	1/28/13	1/31/13 13:29	MJC
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	1/28/13	1/31/13 13:29	MJC
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	1/28/13	1/31/13 13:29	MJC
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	1/28/13	1/31/13 13:29	MJC
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	1/28/13	1/31/13 13:29	MJC
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	1/28/13	1/31/13 13:29	MJC
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	1/28/13	1/31/13 13:29	MJC
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	1/28/13	1/31/13 13:29	MJC
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	66.3	30-150							
Decachlorobiphenyl [2]	66.4	30-150							
Tetrachloro-m-xylene [1]	61.5	30-150							
Tetrachloro-m-xylene [2]	63.0	30-150							



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

Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273775

Sampled: 1/24/2013 14:38

Sample ID: 13A0643-46

Sample Matrix: Soil

#### Herbicides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-D [2]	ND	30	µg/Kg dry	1		SW-846 8151A	1/29/13	2/1/13 4:53	PJG
2,4,5-TP (Silvex) [2]	ND	3.0	µg/Kg dry	1		SW-846 8151A	1/29/13	2/1/13 4:53	PJG
2,4,5-T [2]	ND	3.0	µg/Kg dry	1		SW-846 8151A	1/29/13	2/1/13 4:53	PJG
Dalapon [2]	ND	74	µg/Kg dry	1		SW-846 8151A	1/29/13	2/1/13 4:53	PJG
Dicamba [2]	ND	3.0	µg/Kg dry	1	V-20	SW-846 8151A	1/29/13	2/1/13 4:53	PJG
Surrogates	% Recovery	Recovery Limits	Flag						
2,4-Dichlorophenylacetic acid [1]	82.1	30-150							
2,4-Dichlorophenylacetic acid [2]	90.9	30-150							



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

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Work Order: 13A0643

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Field Sample #: 1273775

Sampled: 1/24/2013 14:38

Sample ID: 13A0643-46

Sample Matrix: Soil

#### Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	81	12	mg/Kg dry	1		CTDEP ETPH	1/29/13	1/30/13 18:45	CJM
Surrogates	% Recovery		Recovery Limits		Flag				
o-Terphenyl	60.3		50-150			1/30/13 18:45			



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273775

Sampled: 1/24/2013 14:38

Sample ID: 13A0643-46

Sample Matrix: Soil

#### Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	3.0	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 18:13	KSH
Barium	63	3.0	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 18:13	KSH
Cadmium	ND	0.30	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 18:13	KSH
Chromium	13	0.59	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 18:13	KSH
Copper	12	0.59	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 18:13	KSH
Lead	26	0.89	mg/Kg dry	1		SW-846 6010C	1/25/13	1/30/13 13:50	KSH
Mercury	0.12	0.030	mg/Kg dry	1		SW-846 7471B	1/25/13	1/29/13 12:20	AMP
Nickel	7.6	0.59	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 18:13	KSH
Selenium	ND	5.9	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 18:13	KSH
Silver	ND	0.59	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 18:13	KSH
Zinc	44	1.2	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 18:13	KSH



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273775

Sampled: 1/24/2013 14:38

Sample ID: 13A0643-46

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.2		% Wt	1		SM 2540G	1/29/13	1/30/13 9:24	RH



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273778

Sampled: 1/24/2013 14:51

Sample ID: 13A0643-49

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.11	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 11:19	MFF
Acrylonitrile	ND	0.0067	mg/Kg dry	1	V-16	SW-846 8260C	1/25/13	1/30/13 11:19	MFF
Benzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 11:19	MFF
Bromobenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 11:19	MFF
Bromodichloromethane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 11:19	MFF
Bromoform	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 11:19	MFF
Bromomethane	ND	0.011	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 11:19	MFF
2-Butanone (MEK)	ND	0.045	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 11:19	MFF
n-Butylbenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 11:19	MFF
sec-Butylbenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 11:19	MFF
tert-Butylbenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 11:19	MFF
Carbon Disulfide	ND	0.0067	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 11:19	MFF
Carbon Tetrachloride	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 11:19	MFF
Chlorobenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 11:19	MFF
Chlorodibromomethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 11:19	MFF
Chloroethane	ND	0.022	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 11:19	MFF
Chloroform	ND	0.0045	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 11:19	MFF
Chloromethane	ND	0.011	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 11:19	MFF
2-Chlorotoluene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 11:19	MFF
4-Chlorotoluene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 11:19	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0022	mg/Kg dry	1	V-16	SW-846 8260C	1/25/13	1/30/13 11:19	MFF
1,2-Dibromoethane (EDB)	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 11:19	MFF
Dibromomethane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 11:19	MFF
1,2-Dichlorobenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 11:19	MFF
1,3-Dichlorobenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 11:19	MFF
1,4-Dichlorobenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 11:19	MFF
trans-1,4-Dichloro-2-butene	ND	0.0045	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 11:19	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.022	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 11:19	MFF
1,1-Dichloroethane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 11:19	MFF
1,2-Dichloroethane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 11:19	MFF
1,1-Dichloroethylene	ND	0.0045	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 11:19	MFF
cis-1,2-Dichloroethylene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 11:19	MFF
trans-1,2-Dichloroethylene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 11:19	MFF
1,2-Dichloropropane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 11:19	MFF
1,3-Dichloropropane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 11:19	MFF
2,2-Dichloropropane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 11:19	MFF
1,1-Dichloropropene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 11:19	MFF
cis-1,3-Dichloropropene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 11:19	MFF
trans-1,3-Dichloropropene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 11:19	MFF
Ethylbenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 11:19	MFF
Hexachlorobutadiene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 11:19	MFF
2-Hexanone (MBK)	ND	0.022	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 11:19	MFF
Isopropylbenzene (Cumene)	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 11:19	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 11:19	MFF



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273778

Sampled: 1/24/2013 14:51

Sample ID: 13A0643-49

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0045	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 11:19	MFF
Methylene Chloride	ND	0.022	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 11:19	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.022	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 11:19	MFF
Naphthalene	ND	0.0045	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 11:19	MFF
n-Propylbenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 11:19	MFF
Styrene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 11:19	MFF
1,1,1,2-Tetrachloroethane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 11:19	MFF
1,1,2,2-Tetrachloroethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 11:19	MFF
Tetrachloroethylene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 11:19	MFF
Tetrahydrofuran	ND	0.011	mg/Kg dry	1	V-16	SW-846 8260C	1/25/13	1/30/13 11:19	MFF
Toluene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 11:19	MFF
1,2,3-Trichlorobenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 11:19	MFF
1,2,4-Trichlorobenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 11:19	MFF
1,1,1-Trichloroethane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 11:19	MFF
1,1,2-Trichloroethane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 11:19	MFF
Trichloroethylene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 11:19	MFF
Trichlorofluoromethane (Freon 11)	ND	0.011	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 11:19	MFF
1,2,3-Trichloropropane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 11:19	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.011	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 11:19	MFF
1,2,4-Trimethylbenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 11:19	MFF
1,3,5-Trimethylbenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 11:19	MFF
Vinyl Chloride	ND	0.011	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 11:19	MFF
m+p Xylene	ND	0.0045	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 11:19	MFF
o-Xylene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 11:19	MFF
Surrogates	% Recovery	Recovery Limits	Flag						
1,2-Dichloroethane-d4	104	70-130							
Toluene-d8	99.0	70-130							
4-Bromofluorobenzene	95.8	70-130							



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273778

Sampled: 1/24/2013 14:51

Sample ID: 13A0643-49

Sample Matrix: Soil

## Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 21:08	CMR
Acenaphthylene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 21:08	CMR
Anthracene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 21:08	CMR
Benzo(a)anthracene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 21:08	CMR
Benzo(a)pyrene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 21:08	CMR
Benzo(b)fluoranthene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 21:08	CMR
Benzo(g,h,i)perylene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 21:08	CMR
Benzo(k)fluoranthene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 21:08	CMR
Chrysene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 21:08	CMR
Dibenz(a,h)anthracene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 21:08	CMR
Fluoranthene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 21:08	CMR
Fluorene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 21:08	CMR
Indeno(1,2,3-cd)pyrene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 21:08	CMR
2-Methylnaphthalene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 21:08	CMR
Naphthalene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 21:08	CMR
Phenanthrene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 21:08	CMR
Pyrene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/29/13	1/29/13 21:08	CMR
Surrogates		% Recovery	Recovery Limits		Flag				
Nitrobenzene-d5		85.5	30-130					1/29/13 21:08	
2-Fluorobiphenyl		88.0	30-130					1/29/13 21:08	
Terphenyl-d14		128	30-130					1/29/13 21:08	



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273778

Sampled: 1/24/2013 14:51

Sample ID: 13A0643-49

Sample Matrix: Soil

### Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	1/28/13	1/31/13 13:42	MJC
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	1/28/13	1/31/13 13:42	MJC
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	1/28/13	1/31/13 13:42	MJC
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	1/28/13	1/31/13 13:42	MJC
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	1/28/13	1/31/13 13:42	MJC
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	1/28/13	1/31/13 13:42	MJC
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	1/28/13	1/31/13 13:42	MJC
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	1/28/13	1/31/13 13:42	MJC
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	1/28/13	1/31/13 13:42	MJC
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	55.3	30-150							
Decachlorobiphenyl [2]	54.6	30-150							
Tetrachloro-m-xylene [1]	52.3	30-150							
Tetrachloro-m-xylene [2]	54.2	30-150							



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

Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273778

Sampled: 1/24/2013 14:51

Sample ID: 13A0643-49

Sample Matrix: Soil

#### Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	ND	24	mg/Kg dry	1		CTDEP ETPH	1/29/13	1/30/13 17:16	CJM
Surrogates	% Recovery		Recovery Limits		Flag				
o-Terphenyl	70.7		50-150			1/30/13 17:16			



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273778

Sampled: 1/24/2013 14:51

Sample ID: 13A0643-49

Sample Matrix: Soil

#### Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	2.9	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 18:19	KSH
Barium	18	2.9	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 18:19	KSH
Cadmium	ND	0.29	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 18:19	KSH
Chromium	8.4	0.57	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 18:19	KSH
Copper	8.0	0.57	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 18:19	KSH
Lead	3.6	0.86	mg/Kg dry	1		SW-846 6010C	1/25/13	1/30/13 13:55	KSH
Mercury	ND	0.030	mg/Kg dry	1		SW-846 7471B	1/25/13	1/29/13 12:22	AMP
Nickel	4.4	0.57	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 18:19	KSH
Selenium	ND	5.7	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 18:19	KSH
Silver	ND	0.57	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 18:19	KSH
Zinc	25	1.1	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 18:19	KSH



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273778

Sampled: 1/24/2013 14:51

Sample ID: 13A0643-49

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	82.8		% Wt	1		SM 2540G	1/29/13	1/30/13 9:24	RH



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273781

Sampled: 1/24/2013 15:05

Sample ID: 13A0643-52

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.11	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 11:46	MFF
Acrylonitrile	ND	0.0065	mg/Kg dry	1	V-16	SW-846 8260C	1/25/13	1/30/13 11:46	MFF
Benzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 11:46	MFF
Bromobenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 11:46	MFF
Bromodichloromethane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 11:46	MFF
Bromoform	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 11:46	MFF
Bromomethane	ND	0.011	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 11:46	MFF
2-Butanone (MEK)	ND	0.043	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 11:46	MFF
n-Butylbenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 11:46	MFF
sec-Butylbenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 11:46	MFF
tert-Butylbenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 11:46	MFF
Carbon Disulfide	ND	0.0065	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 11:46	MFF
Carbon Tetrachloride	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 11:46	MFF
Chlorobenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 11:46	MFF
Chlorodibromomethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 11:46	MFF
Chloroethane	ND	0.022	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 11:46	MFF
Chloroform	ND	0.0043	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 11:46	MFF
Chloromethane	ND	0.011	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 11:46	MFF
2-Chlorotoluene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 11:46	MFF
4-Chlorotoluene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 11:46	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0022	mg/Kg dry	1	V-16	SW-846 8260C	1/25/13	1/30/13 11:46	MFF
1,2-Dibromoethane (EDB)	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 11:46	MFF
Dibromomethane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 11:46	MFF
1,2-Dichlorobenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 11:46	MFF
1,3-Dichlorobenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 11:46	MFF
1,4-Dichlorobenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 11:46	MFF
trans-1,4-Dichloro-2-butene	ND	0.0043	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 11:46	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.022	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 11:46	MFF
1,1-Dichloroethane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 11:46	MFF
1,2-Dichloroethane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 11:46	MFF
1,1-Dichloroethylene	ND	0.0043	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 11:46	MFF
cis-1,2-Dichloroethylene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 11:46	MFF
trans-1,2-Dichloroethylene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 11:46	MFF
1,2-Dichloropropane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 11:46	MFF
1,3-Dichloropropane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 11:46	MFF
2,2-Dichloropropane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 11:46	MFF
1,1-Dichloropropene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 11:46	MFF
cis-1,3-Dichloropropene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 11:46	MFF
trans-1,3-Dichloropropene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 11:46	MFF
Ethylbenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 11:46	MFF
Hexachlorobutadiene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 11:46	MFF
2-Hexanone (MBK)	ND	0.022	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 11:46	MFF
Isopropylbenzene (Cumene)	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 11:46	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 11:46	MFF



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273781

Sampled: 1/24/2013 15:05

Sample ID: 13A0643-52

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0043	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 11:46	MFF
Methylene Chloride	ND	0.022	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 11:46	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.022	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 11:46	MFF
Naphthalene	ND	0.0043	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 11:46	MFF
n-Propylbenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 11:46	MFF
Styrene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 11:46	MFF
1,1,1,2-Tetrachloroethane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 11:46	MFF
1,1,2,2-Tetrachloroethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 11:46	MFF
Tetrachloroethylene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 11:46	MFF
Tetrahydrofuran	ND	0.011	mg/Kg dry	1	V-16	SW-846 8260C	1/25/13	1/30/13 11:46	MFF
Toluene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 11:46	MFF
1,2,3-Trichlorobenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 11:46	MFF
1,2,4-Trichlorobenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 11:46	MFF
1,1,1-Trichloroethane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 11:46	MFF
1,1,2-Trichloroethane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 11:46	MFF
Trichloroethylene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 11:46	MFF
Trichlorofluoromethane (Freon 11)	ND	0.011	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 11:46	MFF
1,2,3-Trichloropropane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 11:46	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.011	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 11:46	MFF
1,2,4-Trimethylbenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 11:46	MFF
1,3,5-Trimethylbenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 11:46	MFF
Vinyl Chloride	ND	0.011	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 11:46	MFF
m+p Xylene	ND	0.0043	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 11:46	MFF
o-Xylene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 11:46	MFF
Surrogates	% Recovery	Recovery Limits	Flag						
1,2-Dichloroethane-d4	108	70-130							
Toluene-d8	96.2	70-130							
4-Bromofluorobenzene	82.8	70-130							



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273781

Sampled: 1/24/2013 15:05

Sample ID: 13A0643-52

Sample Matrix: Soil

## Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 9:43	CMR
Acenaphthylene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 9:43	CMR
Anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 9:43	CMR
Benzo(a)anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 9:43	CMR
Benzo(a)pyrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 9:43	CMR
Benzo(b)fluoranthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 9:43	CMR
Benzo(g,h,i)perylene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 9:43	CMR
Benzo(k)fluoranthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 9:43	CMR
Chrysene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 9:43	CMR
Dibenz(a,h)anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 9:43	CMR
Fluoranthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 9:43	CMR
Fluorene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 9:43	CMR
Indeno(1,2,3-cd)pyrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 9:43	CMR
2-Methylnaphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 9:43	CMR
Naphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 9:43	CMR
Phenanthrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 9:43	CMR
Pyrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 9:43	CMR
Surrogates	% Recovery	Recovery Limits	Flag						
Nitrobenzene-d5	74.7	30-130							
2-Fluorobiphenyl	79.7	30-130							
Terphenyl-d14	91.0	30-130							



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273781

Sampled: 1/24/2013 15:05

Sample ID: 13A0643-52

Sample Matrix: Soil

## Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.024	mg/Kg dry	1		SW-846 8081B	1/28/13	1/30/13 20:04	PJG
Aldrin [1]	ND	0.0059	mg/Kg dry	1		SW-846 8081B	1/28/13	1/30/13 20:04	PJG
alpha-BHC [1]	ND	0.0059	mg/Kg dry	1		SW-846 8081B	1/28/13	1/30/13 20:04	PJG
beta-BHC [1]	ND	0.0059	mg/Kg dry	1		SW-846 8081B	1/28/13	1/30/13 20:04	PJG
delta-BHC [1]	ND	0.0059	mg/Kg dry	1		SW-846 8081B	1/28/13	1/30/13 20:04	PJG
gamma-BHC (Lindane) [1]	ND	0.0024	mg/Kg dry	1		SW-846 8081B	1/28/13	1/30/13 20:04	PJG
Chlordane [1]	ND	0.024	mg/Kg dry	1		SW-846 8081B	1/28/13	1/30/13 20:04	PJG
4,4'-DDD [1]	ND	0.0047	mg/Kg dry	1		SW-846 8081B	1/28/13	1/30/13 20:04	PJG
4,4'-DDE [1]	ND	0.0047	mg/Kg dry	1		SW-846 8081B	1/28/13	1/30/13 20:04	PJG
4,4'-DDT [1]	ND	0.0047	mg/Kg dry	1		SW-846 8081B	1/28/13	1/30/13 20:04	PJG
Dieldrin [1]	ND	0.0047	mg/Kg dry	1		SW-846 8081B	1/28/13	1/30/13 20:04	PJG
Endosulfan I [1]	ND	0.0059	mg/Kg dry	1		SW-846 8081B	1/28/13	1/30/13 20:04	PJG
Endosulfan II [1]	ND	0.0094	mg/Kg dry	1		SW-846 8081B	1/28/13	1/30/13 20:04	PJG
Endosulfan sulfate [1]	ND	0.0094	mg/Kg dry	1		SW-846 8081B	1/28/13	1/30/13 20:04	PJG
Endrin [1]	ND	0.0094	mg/Kg dry	1		SW-846 8081B	1/28/13	1/30/13 20:04	PJG
Endrin aldehyde [1]	ND	0.0094	mg/Kg dry	1		SW-846 8081B	1/28/13	1/30/13 20:04	PJG
Endrin ketone [1]	ND	0.0094	mg/Kg dry	1		SW-846 8081B	1/28/13	1/30/13 20:04	PJG
Heptachlor [1]	ND	0.0059	mg/Kg dry	1		SW-846 8081B	1/28/13	1/30/13 20:04	PJG
Heptachlor epoxide [1]	ND	0.0059	mg/Kg dry	1		SW-846 8081B	1/28/13	1/30/13 20:04	PJG
Hexachlorobenzene [1]	ND	0.0071	mg/Kg dry	1		SW-846 8081B	1/28/13	1/30/13 20:04	PJG
Methoxychlor [1]	ND	0.059	mg/Kg dry	1		SW-846 8081B	1/28/13	1/30/13 20:04	PJG
Toxaphene [1]	ND	0.12	mg/Kg dry	1		SW-846 8081B	1/28/13	1/30/13 20:04	PJG
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	57.4	30-150						1/30/13 20:04	
Decachlorobiphenyl [2]	57.5	30-150						1/30/13 20:04	
Tetrachloro-m-xylene [1]	60.0	30-150						1/30/13 20:04	
Tetrachloro-m-xylene [2]	56.8	30-150						1/30/13 20:04	



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273781

Sampled: 1/24/2013 15:05

Sample ID: 13A0643-52

Sample Matrix: Soil

### Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	1/28/13	1/31/13 13:54	MJC
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	1/28/13	1/31/13 13:54	MJC
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	1/28/13	1/31/13 13:54	MJC
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	1/28/13	1/31/13 13:54	MJC
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	1/28/13	1/31/13 13:54	MJC
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	1/28/13	1/31/13 13:54	MJC
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	1/28/13	1/31/13 13:54	MJC
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	1/28/13	1/31/13 13:54	MJC
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	1/28/13	1/31/13 13:54	MJC
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	57.7	30-150							
Decachlorobiphenyl [2]	57.2	30-150							
Tetrachloro-m-xylene [1]	54.0	30-150							
Tetrachloro-m-xylene [2]	55.3	30-150							



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

Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273781

Sampled: 1/24/2013 15:05

Sample ID: 13A0643-52

Sample Matrix: Soil

#### Herbicides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-D [2]	ND	30	µg/Kg dry	1		SW-846 8151A	1/29/13	2/1/13 5:22	PJG
2,4,5-TP (Silvex) [2]	ND	3.0	µg/Kg dry	1		SW-846 8151A	1/29/13	2/1/13 5:22	PJG
2,4,5-T [2]	ND	3.0	µg/Kg dry	1		SW-846 8151A	1/29/13	2/1/13 5:22	PJG
Dalapon [2]	ND	74	µg/Kg dry	1		SW-846 8151A	1/29/13	2/1/13 5:22	PJG
Dicamba [2]	ND	3.0	µg/Kg dry	1	V-20	SW-846 8151A	1/29/13	2/1/13 5:22	PJG
Surrogates	% Recovery		Recovery Limits		Flag				
2,4-Dichlorophenylacetic acid [1]	72.1		30-150				2/1/13 5:22		
2,4-Dichlorophenylacetic acid [2]	80.0		30-150				2/1/13 5:22		



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

Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273781

Sampled: 1/24/2013 15:05

Sample ID: 13A0643-52

Sample Matrix: Soil

#### Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	43	12	mg/Kg dry	1		CTDEP ETPH	1/29/13	1/31/13 12:11	SCS
Surrogates	% Recovery		Recovery Limits		Flag				
o-Terphenyl	53.3		50-150			1/31/13 12:11			



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273781

Sampled: 1/24/2013 15:05

Sample ID: 13A0643-52

Sample Matrix: Soil

**Metals Analyses (Total)**

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	3.0	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 18:45	KSH
Barium	45	3.0	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 18:45	KSH
Cadmium	0.35	0.30	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 18:45	KSH
Chromium	16	0.60	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 18:45	KSH
Copper	11	0.60	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 18:45	KSH
Lead	12	0.89	mg/Kg dry	1		SW-846 6010C	1/25/13	1/30/13 14:17	KSH
Mercury	0.041	0.030	mg/Kg dry	1		SW-846 7471B	1/25/13	1/29/13 12:23	AMP
Nickel	9.1	0.60	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 18:45	KSH
Selenium	ND	6.0	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 18:45	KSH
Silver	ND	0.60	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 18:45	KSH
Zinc	40	1.2	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 18:45	KSH



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273781

Sampled: 1/24/2013 15:05

Sample ID: 13A0643-52

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.4		% Wt	1		SM 2540G	1/29/13	1/30/13 9:24	RH



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273782

Sampled: 1/24/2013 15:10

Sample ID: 13A0643-53

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.15	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 12:13	MFF
Acetone	ND	0.17	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 14:29	MFF
Acrylonitrile	ND	0.0090	mg/Kg dry	1	V-16	SW-846 8260C	1/25/13	1/30/13 12:13	MFF
Acrylonitrile	ND	0.010	mg/Kg dry	1	V-16	SW-846 8260C	1/25/13	1/30/13 14:29	MFF
Benzene	ND	0.0030	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 12:13	MFF
Benzene	ND	0.0034	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 14:29	MFF
Bromobenzene	ND	0.0030	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 12:13	MFF
Bromobenzene	ND	0.0034	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 14:29	MFF
Bromodichloromethane	ND	0.0030	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 12:13	MFF
Bromodichloromethane	ND	0.0034	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 14:29	MFF
Bromoform	ND	0.0034	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 14:29	MFF
Bromoform	ND	0.0030	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 12:13	MFF
Bromomethane	ND	0.017	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 14:29	MFF
Bromomethane	ND	0.015	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 12:13	MFF
2-Butanone (MEK)	ND	0.060	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 12:13	MFF
2-Butanone (MEK)	ND	0.067	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 14:29	MFF
n-Butylbenzene	ND	0.0034	mg/Kg dry	1	V-17	SW-846 8260C	1/25/13	1/30/13 14:29	MFF
n-Butylbenzene	ND	0.0030	mg/Kg dry	1	V-17	SW-846 8260C	1/25/13	1/30/13 12:13	MFF
sec-Butylbenzene	ND	0.0034	mg/Kg dry	1	V-17	SW-846 8260C	1/25/13	1/30/13 14:29	MFF
sec-Butylbenzene	ND	0.0030	mg/Kg dry	1	V-17	SW-846 8260C	1/25/13	1/30/13 12:13	MFF
tert-Butylbenzene	ND	0.0034	mg/Kg dry	1	V-17	SW-846 8260C	1/25/13	1/30/13 14:29	MFF
tert-Butylbenzene	ND	0.0030	mg/Kg dry	1	V-17	SW-846 8260C	1/25/13	1/30/13 12:13	MFF
Carbon Disulfide	ND	0.010	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 14:29	MFF
Carbon Disulfide	ND	0.0090	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 12:13	MFF
Carbon Tetrachloride	ND	0.0034	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 14:29	MFF
Carbon Tetrachloride	ND	0.0030	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 12:13	MFF
Chlorobenzene	ND	0.0034	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 14:29	MFF
Chlorobenzene	ND	0.0030	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 12:13	MFF
Chlorodibromomethane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 14:29	MFF
Chlorodibromomethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 12:13	MFF
Chloroethane	ND	0.034	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 14:29	MFF
Chloroethane	ND	0.030	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 12:13	MFF
Chloroform	ND	0.0067	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 14:29	MFF
Chloroform	ND	0.0060	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 12:13	MFF
Chloromethane	ND	0.017	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 14:29	MFF
Chloromethane	ND	0.015	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 12:13	MFF
2-Chlorotoluene	ND	0.0030	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 12:13	MFF
2-Chlorotoluene	ND	0.0034	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 14:29	MFF
4-Chlorotoluene	ND	0.0030	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 12:13	MFF
4-Chlorotoluene	ND	0.0034	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 14:29	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0034	mg/Kg dry	1	V-16, V-17	SW-846 8260C	1/25/13	1/30/13 14:29	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0030	mg/Kg dry	1	V-16, V-17	SW-846 8260C	1/25/13	1/30/13 12:13	MFF
1,2-Dibromoethane (EDB)	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 12:13	MFF
1,2-Dibromoethane (EDB)	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 14:29	MFF



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273782

Sampled: 1/24/2013 15:10

Sample ID: 13A0643-53

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Dibromomethane	ND	0.0034	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 14:29	MFF
Dibromomethane	ND	0.0030	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 12:13	MFF
1,2-Dichlorobenzene	ND	0.0030	mg/Kg dry	1	V-17	SW-846 8260C	1/25/13	1/30/13 12:13	MFF
1,2-Dichlorobenzene	ND	0.0034	mg/Kg dry	1	V-17	SW-846 8260C	1/25/13	1/30/13 14:29	MFF
1,3-Dichlorobenzene	ND	0.0030	mg/Kg dry	1	V-17	SW-846 8260C	1/25/13	1/30/13 12:13	MFF
1,3-Dichlorobenzene	ND	0.0034	mg/Kg dry	1	V-17	SW-846 8260C	1/25/13	1/30/13 14:29	MFF
1,4-Dichlorobenzene	ND	0.0030	mg/Kg dry	1	V-17	SW-846 8260C	1/25/13	1/30/13 12:13	MFF
1,4-Dichlorobenzene	ND	0.0034	mg/Kg dry	1	V-17	SW-846 8260C	1/25/13	1/30/13 14:29	MFF
trans-1,4-Dichloro-2-butene	ND	0.0067	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 14:29	MFF
trans-1,4-Dichloro-2-butene	ND	0.0060	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 12:13	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.034	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 14:29	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.030	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 12:13	MFF
1,1-Dichloroethane	ND	0.0030	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 12:13	MFF
1,1-Dichloroethane	ND	0.0034	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 14:29	MFF
1,2-Dichloroethane	ND	0.0034	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 14:29	MFF
1,2-Dichloroethane	ND	0.0030	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 12:13	MFF
1,1-Dichloroethylene	ND	0.0067	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 14:29	MFF
1,1-Dichloroethylene	ND	0.0060	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 12:13	MFF
cis-1,2-Dichloroethylene	ND	0.0034	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 14:29	MFF
cis-1,2-Dichloroethylene	ND	0.0030	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 12:13	MFF
trans-1,2-Dichloroethylene	ND	0.0034	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 14:29	MFF
trans-1,2-Dichloroethylene	ND	0.0030	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 12:13	MFF
1,2-Dichloropropane	ND	0.0030	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 12:13	MFF
1,2-Dichloropropane	ND	0.0034	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 14:29	MFF
1,3-Dichloropropane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 12:13	MFF
1,3-Dichloropropane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 14:29	MFF
2,2-Dichloropropane	ND	0.0030	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 12:13	MFF
2,2-Dichloropropane	ND	0.0034	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 14:29	MFF
1,1-Dichloropropene	ND	0.0034	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 14:29	MFF
1,1-Dichloropropene	ND	0.0030	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 12:13	MFF
cis-1,3-Dichloropropene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 14:29	MFF
cis-1,3-Dichloropropene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 12:13	MFF
trans-1,3-Dichloropropene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 14:29	MFF
trans-1,3-Dichloropropene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 12:13	MFF
Ethylbenzene	ND	0.0034	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 14:29	MFF
Ethylbenzene	ND	0.0030	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 12:13	MFF
Hexachlorobutadiene	ND	0.0034	mg/Kg dry	1	V-17	SW-846 8260C	1/25/13	1/30/13 14:29	MFF
Hexachlorobutadiene	ND	0.0030	mg/Kg dry	1	V-17	SW-846 8260C	1/25/13	1/30/13 12:13	MFF
2-Hexanone (MBK)	ND	0.030	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 12:13	MFF
2-Hexanone (MBK)	ND	0.034	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 14:29	MFF
Isopropylbenzene (Cumene)	ND	0.0034	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 14:29	MFF
Isopropylbenzene (Cumene)	ND	0.0030	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 12:13	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0034	mg/Kg dry	1	V-17	SW-846 8260C	1/25/13	1/30/13 14:29	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0030	mg/Kg dry	1	V-17	SW-846 8260C	1/25/13	1/30/13 12:13	MFF



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273782

Sampled: 1/24/2013 15:10

Sample ID: 13A0643-53

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0067	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 14:29	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0060	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 12:13	MFF
Methylene Chloride	ND	0.030	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 12:13	MFF
Methylene Chloride	ND	0.034	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 14:29	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.030	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 12:13	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.034	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 14:29	MFF
Naphthalene	ND	0.0067	mg/Kg dry	1	V-17	SW-846 8260C	1/25/13	1/30/13 14:29	MFF
Naphthalene	ND	0.0060	mg/Kg dry	1	V-17	SW-846 8260C	1/25/13	1/30/13 12:13	MFF
n-Propylbenzene	ND	0.0034	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 14:29	MFF
n-Propylbenzene	ND	0.0030	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 12:13	MFF
Styrene	ND	0.0034	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 14:29	MFF
Styrene	ND	0.0030	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 12:13	MFF
1,1,1,2-Tetrachloroethane	ND	0.0030	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 12:13	MFF
1,1,1,2-Tetrachloroethane	ND	0.0034	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 14:29	MFF
1,1,2,2-Tetrachloroethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 12:13	MFF
1,1,2,2-Tetrachloroethane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 14:29	MFF
Tetrachloroethylene	ND	0.0034	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 14:29	MFF
Tetrachloroethylene	ND	0.0030	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 12:13	MFF
Tetrahydrofuran	ND	0.017	mg/Kg dry	1	V-16	SW-846 8260C	1/25/13	1/30/13 14:29	MFF
Tetrahydrofuran	ND	0.015	mg/Kg dry	1	V-16	SW-846 8260C	1/25/13	1/30/13 12:13	MFF
Toluene	ND	0.0034	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 14:29	MFF
Toluene	ND	0.0030	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 12:13	MFF
1,2,3-Trichlorobenzene	ND	0.0034	mg/Kg dry	1	V-17	SW-846 8260C	1/25/13	1/30/13 14:29	MFF
1,2,3-Trichlorobenzene	ND	0.0030	mg/Kg dry	1	V-17	SW-846 8260C	1/25/13	1/30/13 12:13	MFF
1,2,4-Trichlorobenzene	ND	0.0034	mg/Kg dry	1	V-17	SW-846 8260C	1/25/13	1/30/13 14:29	MFF
1,2,4-Trichlorobenzene	ND	0.0030	mg/Kg dry	1	V-17	SW-846 8260C	1/25/13	1/30/13 12:13	MFF
1,1,1-Trichloroethane	ND	0.0034	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 14:29	MFF
1,1,1-Trichloroethane	ND	0.0030	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 12:13	MFF
1,1,2-Trichloroethane	ND	0.0030	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 12:13	MFF
1,1,2-Trichloroethane	ND	0.0034	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 14:29	MFF
Trichloroethylene	ND	0.0034	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 14:29	MFF
Trichloroethylene	ND	0.0030	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 12:13	MFF
Trichlorofluoromethane (Freon 11)	ND	0.015	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 12:13	MFF
Trichlorofluoromethane (Freon 11)	ND	0.017	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 14:29	MFF
1,2,3-Trichloropropane	ND	0.0034	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 14:29	MFF
1,2,3-Trichloropropane	ND	0.0030	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 12:13	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.017	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 14:29	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.015	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 12:13	MFF
1,2,4-Trimethylbenzene	ND	0.0034	mg/Kg dry	1	V-17	SW-846 8260C	1/25/13	1/30/13 14:29	MFF
1,2,4-Trimethylbenzene	ND	0.0030	mg/Kg dry	1	V-17	SW-846 8260C	1/25/13	1/30/13 12:13	MFF
1,3,5-Trimethylbenzene	ND	0.0030	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 12:13	MFF
1,3,5-Trimethylbenzene	ND	0.0034	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 14:29	MFF
Vinyl Chloride	ND	0.017	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 14:29	MFF



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

Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273782

Sampled: 1/24/2013 15:10

Sample ID: 13A0643-53

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Vinyl Chloride	ND	0.015	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 12:13	MFF
m+p Xylene	ND	0.0067	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 14:29	MFF
m+p Xylene	ND	0.0060	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 12:13	MFF
o-Xylene	ND	0.0034	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 14:29	MFF
o-Xylene	ND	0.0030	mg/Kg dry	1		SW-846 8260C	1/25/13	1/30/13 12:13	MFF
Surrogates	% Recovery	Recovery Limits	Flag						
1,2-Dichloroethane-d4	112	70-130							
1,2-Dichloroethane-d4	108	70-130							
Toluene-d8	91.4	70-130							
Toluene-d8	92.3	70-130							
4-Bromofluorobenzene	74.5	70-130							
4-Bromofluorobenzene	78.0	70-130							



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273782

Sampled: 1/24/2013 15:10

Sample ID: 13A0643-53

Sample Matrix: Soil

Sample Flags: DL-03

## Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.87	mg/Kg dry	2		SW-846 8270D	1/29/13	1/31/13 10:14	CMR
Acenaphthylene	1.7	0.87	mg/Kg dry	2		SW-846 8270D	1/29/13	1/31/13 10:14	CMR
Anthracene	ND	0.87	mg/Kg dry	2		SW-846 8270D	1/29/13	1/31/13 10:14	CMR
Benzo(a)anthracene	2.2	0.87	mg/Kg dry	2		SW-846 8270D	1/29/13	1/31/13 10:14	CMR
Benzo(a)pyrene	4.1	0.87	mg/Kg dry	2		SW-846 8270D	1/29/13	1/31/13 10:14	CMR
Benzo(b)fluoranthene	6.2	0.87	mg/Kg dry	2		SW-846 8270D	1/29/13	1/31/13 10:14	CMR
Benzo(g,h,i)perylene	3.4	0.87	mg/Kg dry	2		SW-846 8270D	1/29/13	1/31/13 10:14	CMR
Benzo(k)fluoranthene	2.2	0.87	mg/Kg dry	2		SW-846 8270D	1/29/13	1/31/13 10:14	CMR
Chrysene	3.6	0.87	mg/Kg dry	2		SW-846 8270D	1/29/13	1/31/13 10:14	CMR
Dibenz(a,h)anthracene	ND	0.87	mg/Kg dry	2		SW-846 8270D	1/29/13	1/31/13 10:14	CMR
Fluoranthene	3.4	0.87	mg/Kg dry	2		SW-846 8270D	1/29/13	1/31/13 10:14	CMR
Fluorene	ND	0.87	mg/Kg dry	2		SW-846 8270D	1/29/13	1/31/13 10:14	CMR
Indeno(1,2,3-cd)pyrene	3.8	0.87	mg/Kg dry	2		SW-846 8270D	1/29/13	1/31/13 10:14	CMR
2-Methylnaphthalene	ND	0.87	mg/Kg dry	2		SW-846 8270D	1/29/13	1/31/13 10:14	CMR
Naphthalene	ND	0.87	mg/Kg dry	2		SW-846 8270D	1/29/13	1/31/13 10:14	CMR
Phenanthrene	1.3	0.87	mg/Kg dry	2		SW-846 8270D	1/29/13	1/31/13 10:14	CMR
Pyrene	4.0	0.87	mg/Kg dry	2		SW-846 8270D	1/29/13	1/31/13 10:14	CMR
Surrogates	% Recovery	Recovery Limits	Flag						
Nitrobenzene-d5	85.9	30-130							
2-Fluorobiphenyl	94.7	30-130							
Terphenyl-d14	91.2	30-130							



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273782

Sampled: 1/24/2013 15:10

Sample ID: 13A0643-53

Sample Matrix: Soil

### Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	1/28/13	1/31/13 14:07	MJC
Aroclor-1221 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	1/28/13	1/31/13 14:07	MJC
Aroclor-1232 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	1/28/13	1/31/13 14:07	MJC
Aroclor-1242 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	1/28/13	1/31/13 14:07	MJC
Aroclor-1248 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	1/28/13	1/31/13 14:07	MJC
Aroclor-1254 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	1/28/13	1/31/13 14:07	MJC
Aroclor-1260 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	1/28/13	1/31/13 14:07	MJC
Aroclor-1262 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	1/28/13	1/31/13 14:07	MJC
Aroclor-1268 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	1/28/13	1/31/13 14:07	MJC
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	47.1	30-150							
Decachlorobiphenyl [2]	47.7	30-150							
Tetrachloro-m-xylene [1]	45.3	30-150							
Tetrachloro-m-xylene [2]	46.7	30-150							



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

Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273782

Sampled: 1/24/2013 15:10

Sample ID: 13A0643-53

Sample Matrix: Soil

#### Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	1000	510	mg/Kg dry	20		CTDEP ETPH	1/29/13	1/30/13 17:52	CJM
Surrogates	% Recovery		Recovery Limits		Flag				
o-Terphenyl	*		50-150		S-01	1/30/13 17:52			



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273782

Sampled: 1/24/2013 15:10

Sample ID: 13A0643-53

Sample Matrix: Soil

# Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	3.1	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 18:51	KSH
Barium	31	3.1	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 18:51	KSH
Cadmium	ND	0.31	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 18:51	KSH
Chromium	23	0.62	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 18:51	KSH
Copper	18	0.62	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 18:51	KSH
Lead	49	0.93	mg/Kg dry	1		SW-846 6010C	1/25/13	1/30/13 14:23	KSH
Mercury	0.041	0.032	mg/Kg dry	1		SW-846 7471B	1/25/13	1/29/13 12:25	AMP
Nickel	9.3	0.62	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 18:51	KSH
Selenium	ND	6.2	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 18:51	KSH
Silver	ND	0.62	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 18:51	KSH
Zinc	42	1.2	mg/Kg dry	1		SW-846 6010C	1/25/13	1/29/13 18:51	KSH



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

Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273782

Sampled: 1/24/2013 15:10

Sample ID: 13A0643-53

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	77.6		% Wt	1		SM 2540G	1/29/13	1/30/13 9:24	RH



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273935

Sampled: 1/24/2013 15:30

Sample ID: 13A0643-55

Sample Matrix: Ground Water

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	5.0	µg/L	1		SW-846 8260C	1/28/13	1/30/13 11:09	LBD
Acrylonitrile	ND	2.0	µg/L	1		SW-846 8260C	1/28/13	1/30/13 11:09	LBD
Benzene	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/30/13 11:09	LBD
Bromobenzene	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/30/13 11:09	LBD
Bromodichloromethane	ND	2.0	µg/L	1		SW-846 8260C	1/28/13	1/30/13 11:09	LBD
Bromoform	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/30/13 11:09	LBD
Bromomethane	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/30/13 11:09	LBD
2-Butanone (MEK)	ND	5.0	µg/L	1		SW-846 8260C	1/28/13	1/30/13 11:09	LBD
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	1/28/13	1/30/13 11:09	LBD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	1/28/13	1/30/13 11:09	LBD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	1/28/13	1/30/13 11:09	LBD
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260C	1/28/13	1/30/13 11:09	LBD
Carbon Tetrachloride	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/30/13 11:09	LBD
Chlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/30/13 11:09	LBD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/30/13 11:09	LBD
Chloroethane	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/30/13 11:09	LBD
Chloroform	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/30/13 11:09	LBD
Chloromethane	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/30/13 11:09	LBD
2-Chlorotoluene	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/30/13 11:09	LBD
4-Chlorotoluene	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/30/13 11:09	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	1.0	µg/L	1		SW-846 8260C	1/28/13	1/30/13 11:09	LBD
1,2-Dibromoethane (EDB)	ND	1.0	µg/L	1		SW-846 8260C	1/28/13	1/30/13 11:09	LBD
Dibromomethane	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/30/13 11:09	LBD
1,2-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/30/13 11:09	LBD
1,3-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/30/13 11:09	LBD
1,4-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/30/13 11:09	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	1/28/13	1/30/13 11:09	LBD
Dichlorodifluoromethane (Freon 12)	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/30/13 11:09	LBD
1,1-Dichloroethane	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/30/13 11:09	LBD
1,2-Dichloroethane	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/30/13 11:09	LBD
1,1-Dichloroethylene	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/30/13 11:09	LBD
cis-1,2-Dichloroethylene	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/30/13 11:09	LBD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	1/28/13	1/30/13 11:09	LBD
1,2-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/30/13 11:09	LBD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/30/13 11:09	LBD
2,2-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/30/13 11:09	LBD
1,1-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/30/13 11:09	LBD
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/30/13 11:09	LBD
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/30/13 11:09	LBD
Ethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/30/13 11:09	LBD
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/30/13 11:09	LBD
2-Hexanone (MBK)	ND	5.0	µg/L	1		SW-846 8260C	1/28/13	1/30/13 11:09	LBD
Isopropylbenzene (Cumene)	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/30/13 11:09	LBD
p-Isopropyltoluene (p-Cymene)	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/30/13 11:09	LBD



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273935

Sampled: 1/24/2013 15:30

Sample ID: 13A0643-55

Sample Matrix: Ground Water

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/30/13 11:09	LBD
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	1/28/13	1/30/13 11:09	LBD
4-Methyl-2-pentanone (MIBK)	ND	5.0	µg/L	1		SW-846 8260C	1/28/13	1/30/13 11:09	LBD
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	1/28/13	1/30/13 11:09	LBD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	1/28/13	1/30/13 11:09	LBD
Styrene	ND	1.0	µg/L	1		SW-846 8260C	1/28/13	1/30/13 11:09	LBD
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	1/28/13	1/30/13 11:09	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/30/13 11:09	LBD
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	1/28/13	1/30/13 11:09	LBD
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	1/28/13	1/30/13 11:09	LBD
Toluene	ND	1.0	µg/L	1		SW-846 8260C	1/28/13	1/30/13 11:09	LBD
1,2,3-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	1/28/13	1/30/13 11:09	LBD
1,2,4-Trichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/30/13 11:09	LBD
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	1/28/13	1/30/13 11:09	LBD
1,1,2-Trichloroethane	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/30/13 11:09	LBD
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	1/28/13	1/30/13 11:09	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	1/28/13	1/30/13 11:09	LBD
1,2,3-Trichloropropane	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/30/13 11:09	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/30/13 11:09	LBD
1,2,4-Trimethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/30/13 11:09	LBD
1,3,5-Trimethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/30/13 11:09	LBD
Vinyl Chloride	ND	1.0	µg/L	1		SW-846 8260C	1/28/13	1/30/13 11:09	LBD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	1/28/13	1/30/13 11:09	LBD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	1/28/13	1/30/13 11:09	LBD
Surrogates	% Recovery	Recovery Limits	Flag						
1,2-Dichloroethane-d4	101	70-130							
Toluene-d8	97.5	70-130							
4-Bromofluorobenzene	96.0	70-130							



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273935

Sampled: 1/24/2013 15:30

Sample ID: 13A0643-55

Sample Matrix: Ground Water

## Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene (low)	ND	0.30	µg/L	1		SW-846 8270D	1/26/13	1/29/13 10:48	CJM
Acenaphthylene (low)	ND	0.30	µg/L	1		SW-846 8270D	1/26/13	1/29/13 10:48	CJM
Anthracene (low)	ND	0.20	µg/L	1		SW-846 8270D	1/26/13	1/29/13 10:48	CJM
Benzo(a)anthracene (low)	ND	0.050	µg/L	1		SW-846 8270D	1/26/13	1/29/13 10:48	CJM
Benzo(a)pyrene (low)	ND	0.10	µg/L	1		SW-846 8270D	1/26/13	1/29/13 10:48	CJM
Benzo(b)fluoranthene (low)	ND	0.050	µg/L	1		SW-846 8270D	1/26/13	1/29/13 10:48	CJM
Benzo(g,h,i)perylene (low)	ND	0.50	µg/L	1		SW-846 8270D	1/26/13	1/29/13 10:48	CJM
Benzo(k)fluoranthene (low)	ND	0.20	µg/L	1		SW-846 8270D	1/26/13	1/29/13 10:48	CJM
Chrysene (low)	ND	0.20	µg/L	1		SW-846 8270D	1/26/13	1/29/13 10:48	CJM
Dibenz(a,h)anthracene (low)	ND	0.20	µg/L	1		SW-846 8270D	1/26/13	1/29/13 10:48	CJM
Fluoranthene (low)	ND	0.50	µg/L	1		SW-846 8270D	1/26/13	1/29/13 10:48	CJM
Fluorene (low)	ND	1.0	µg/L	1		SW-846 8270D	1/26/13	1/29/13 10:48	CJM
Indeno(1,2,3-cd)pyrene (low)	ND	0.20	µg/L	1		SW-846 8270D	1/26/13	1/29/13 10:48	CJM
2-Methylnaphthalene (low)	ND	1.0	µg/L	1		SW-846 8270D	1/26/13	1/29/13 10:48	CJM
Naphthalene (low)	ND	1.0	µg/L	1		SW-846 8270D	1/26/13	1/29/13 10:48	CJM
Phenanthrene (low)	ND	0.050	µg/L	1		SW-846 8270D	1/26/13	1/29/13 10:48	CJM
Pyrene (low)	ND	1.0	µg/L	1		SW-846 8270D	1/26/13	1/29/13 10:48	CJM
Surrogates	% Recovery	Recovery Limits	Flag						
Nitrobenzene-d5 (low)	90.9	30-130							
2-Fluorobiphenyl (low)	81.2	30-130							
Terphenyl-d14 (low)	82.9	30-130							



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273935

Sampled: 1/24/2013 15:30

Sample ID: 13A0643-55

Sample Matrix: Ground Water

### Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	1/28/13	1/29/13 11:50	JMB
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	1/28/13	1/29/13 11:50	JMB
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	1/28/13	1/29/13 11:50	JMB
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	1/28/13	1/29/13 11:50	JMB
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	1/28/13	1/29/13 11:50	JMB
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	1/28/13	1/29/13 11:50	JMB
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	1/28/13	1/29/13 11:50	JMB
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	1/28/13	1/29/13 11:50	JMB
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	1/28/13	1/29/13 11:50	JMB
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	37.1	30-150							
Decachlorobiphenyl [2]	37.6	30-150							
Tetrachloro-m-xylene [1]	75.4	30-150							
Tetrachloro-m-xylene [2]	75.4	30-150							



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

Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273935

Sampled: 1/24/2013 15:30

Sample ID: 13A0643-55

Sample Matrix: Ground Water

#### Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	ND	0.075	mg/L	1		CTDEP ETPH	1/28/13	1/29/13 11:53	SCS
Surrogates	% Recovery		Recovery Limits		Flag				
o-Terphenyl	96.2		50-150			1/29/13 11:53			



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273935UF

Sampled: 1/24/2013 15:30

Sample ID: 13A0643-56

Sample Matrix: Ground Water

**Metals Analyses (Total)**

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	2.0	µg/L	5		SW-846 6020A	1/25/13	1/28/13 11:41	KSH
Barium	ND	50	µg/L	5		SW-846 6020A	1/25/13	1/28/13 11:41	KSH
Cadmium	ND	2.5	µg/L	5		SW-846 6020A	1/25/13	1/28/13 11:41	KSH
Chromium	ND	5.0	µg/L	5		SW-846 6020A	1/25/13	1/28/13 11:41	KSH
Copper	ND	25	µg/L	5		SW-846 6020A	1/25/13	1/28/13 11:41	KSH
Lead	ND	5.0	µg/L	5		SW-846 6020A	1/25/13	1/28/13 11:41	KSH
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	1/30/13	1/30/13 12:04	SAJ
Nickel	ND	25	µg/L	5		SW-846 6020A	1/25/13	1/28/13 11:41	KSH
Selenium	ND	25	µg/L	5		SW-846 6020A	1/25/13	1/28/13 11:41	KSH
Silver	ND	2.5	µg/L	5		SW-846 6020A	1/25/13	1/28/13 11:41	KSH
Zinc	ND	50	µg/L	5		SW-846 6020A	1/25/13	1/28/13 11:41	KSH



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273936

Sampled: 1/24/2013 15:30

Sample ID: 13A0643-57

Sample Matrix: Ground Water

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	5.0	µg/L	1		SW-846 8260C	1/28/13	1/30/13 11:40	LBD
Acrylonitrile	ND	2.0	µg/L	1		SW-846 8260C	1/28/13	1/30/13 11:40	LBD
Benzene	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/30/13 11:40	LBD
Bromobenzene	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/30/13 11:40	LBD
Bromodichloromethane	ND	2.0	µg/L	1		SW-846 8260C	1/28/13	1/30/13 11:40	LBD
Bromoform	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/30/13 11:40	LBD
Bromomethane	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/30/13 11:40	LBD
2-Butanone (MEK)	ND	5.0	µg/L	1		SW-846 8260C	1/28/13	1/30/13 11:40	LBD
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	1/28/13	1/30/13 11:40	LBD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	1/28/13	1/30/13 11:40	LBD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	1/28/13	1/30/13 11:40	LBD
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260C	1/28/13	1/30/13 11:40	LBD
Carbon Tetrachloride	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/30/13 11:40	LBD
Chlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/30/13 11:40	LBD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/30/13 11:40	LBD
Chloroethane	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/30/13 11:40	LBD
Chloroform	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/30/13 11:40	LBD
Chloromethane	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/30/13 11:40	LBD
2-Chlorotoluene	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/30/13 11:40	LBD
4-Chlorotoluene	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/30/13 11:40	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	1.0	µg/L	1		SW-846 8260C	1/28/13	1/30/13 11:40	LBD
1,2-Dibromoethane (EDB)	ND	1.0	µg/L	1		SW-846 8260C	1/28/13	1/30/13 11:40	LBD
Dibromomethane	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/30/13 11:40	LBD
1,2-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/30/13 11:40	LBD
1,3-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/30/13 11:40	LBD
1,4-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/30/13 11:40	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	1/28/13	1/30/13 11:40	LBD
Dichlorodifluoromethane (Freon 12)	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/30/13 11:40	LBD
1,1-Dichloroethane	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/30/13 11:40	LBD
1,2-Dichloroethane	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/30/13 11:40	LBD
1,1-Dichloroethylene	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/30/13 11:40	LBD
cis-1,2-Dichloroethylene	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/30/13 11:40	LBD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	1/28/13	1/30/13 11:40	LBD
1,2-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/30/13 11:40	LBD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/30/13 11:40	LBD
2,2-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/30/13 11:40	LBD
1,1-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/30/13 11:40	LBD
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/30/13 11:40	LBD
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/30/13 11:40	LBD
Ethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/30/13 11:40	LBD
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/30/13 11:40	LBD
2-Hexanone (MBK)	ND	5.0	µg/L	1		SW-846 8260C	1/28/13	1/30/13 11:40	LBD
Isopropylbenzene (Cumene)	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/30/13 11:40	LBD
p-Isopropyltoluene (p-Cymene)	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/30/13 11:40	LBD



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273936

Sampled: 1/24/2013 15:30

Sample ID: 13A0643-57

Sample Matrix: Ground Water

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/30/13 11:40	LBD
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	1/28/13	1/30/13 11:40	LBD
4-Methyl-2-pentanone (MIBK)	ND	5.0	µg/L	1		SW-846 8260C	1/28/13	1/30/13 11:40	LBD
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	1/28/13	1/30/13 11:40	LBD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	1/28/13	1/30/13 11:40	LBD
Styrene	ND	1.0	µg/L	1		SW-846 8260C	1/28/13	1/30/13 11:40	LBD
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	1/28/13	1/30/13 11:40	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/30/13 11:40	LBD
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	1/28/13	1/30/13 11:40	LBD
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	1/28/13	1/30/13 11:40	LBD
Toluene	ND	1.0	µg/L	1		SW-846 8260C	1/28/13	1/30/13 11:40	LBD
1,2,3-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	1/28/13	1/30/13 11:40	LBD
1,2,4-Trichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/30/13 11:40	LBD
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	1/28/13	1/30/13 11:40	LBD
1,1,2-Trichloroethane	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/30/13 11:40	LBD
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	1/28/13	1/30/13 11:40	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	1/28/13	1/30/13 11:40	LBD
1,2,3-Trichloropropane	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/30/13 11:40	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/30/13 11:40	LBD
1,2,4-Trimethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/30/13 11:40	LBD
1,3,5-Trimethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/30/13 11:40	LBD
Vinyl Chloride	ND	1.0	µg/L	1		SW-846 8260C	1/28/13	1/30/13 11:40	LBD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	1/28/13	1/30/13 11:40	LBD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	1/28/13	1/30/13 11:40	LBD
Surrogates	% Recovery	Recovery Limits	Flag						
1,2-Dichloroethane-d4	99.8	70-130							
Toluene-d8	99.8	70-130							
4-Bromofluorobenzene	93.4	70-130							



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273936

Sampled: 1/24/2013 15:30

Sample ID: 13A0643-57

Sample Matrix: Ground Water

## Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene (low)	ND	0.30	µg/L	1		SW-846 8270D	1/26/13	1/29/13 11:18	CJM
Acenaphthylene (low)	ND	0.30	µg/L	1		SW-846 8270D	1/26/13	1/29/13 11:18	CJM
Anthracene (low)	ND	0.20	µg/L	1		SW-846 8270D	1/26/13	1/29/13 11:18	CJM
Benzo(a)anthracene (low)	ND	0.050	µg/L	1		SW-846 8270D	1/26/13	1/29/13 11:18	CJM
Benzo(a)pyrene (low)	ND	0.10	µg/L	1		SW-846 8270D	1/26/13	1/29/13 11:18	CJM
Benzo(b)fluoranthene (low)	ND	0.050	µg/L	1		SW-846 8270D	1/26/13	1/29/13 11:18	CJM
Benzo(g,h,i)perylene (low)	ND	0.50	µg/L	1		SW-846 8270D	1/26/13	1/29/13 11:18	CJM
Benzo(k)fluoranthene (low)	ND	0.20	µg/L	1		SW-846 8270D	1/26/13	1/29/13 11:18	CJM
Chrysene (low)	ND	0.20	µg/L	1		SW-846 8270D	1/26/13	1/29/13 11:18	CJM
Dibenz(a,h)anthracene (low)	ND	0.20	µg/L	1		SW-846 8270D	1/26/13	1/29/13 11:18	CJM
Fluoranthene (low)	ND	0.50	µg/L	1		SW-846 8270D	1/26/13	1/29/13 11:18	CJM
Fluorene (low)	ND	1.0	µg/L	1		SW-846 8270D	1/26/13	1/29/13 11:18	CJM
Indeno(1,2,3-cd)pyrene (low)	ND	0.20	µg/L	1		SW-846 8270D	1/26/13	1/29/13 11:18	CJM
2-Methylnaphthalene (low)	ND	1.0	µg/L	1		SW-846 8270D	1/26/13	1/29/13 11:18	CJM
Naphthalene (low)	ND	1.0	µg/L	1		SW-846 8270D	1/26/13	1/29/13 11:18	CJM
Phenanthrene (low)	ND	0.050	µg/L	1		SW-846 8270D	1/26/13	1/29/13 11:18	CJM
Pyrene (low)	ND	1.0	µg/L	1		SW-846 8270D	1/26/13	1/29/13 11:18	CJM
Surrogates	% Recovery	Recovery Limits	Flag						
Nitrobenzene-d5 (low)	94.9	30-130							
2-Fluorobiphenyl (low)	85.1	30-130							
Terphenyl-d14 (low)	84.8	30-130							



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273936

Sampled: 1/24/2013 15:30

Sample ID: 13A0643-57

Sample Matrix: Ground Water

## Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.20	µg/L	1		SW-846 8081B	1/28/13	1/29/13 18:14	JMB
Aldrin [1]	ND	0.050	µg/L	1		SW-846 8081B	1/28/13	1/29/13 18:14	JMB
alpha-BHC [1]	ND	0.050	µg/L	1		SW-846 8081B	1/28/13	1/29/13 18:14	JMB
beta-BHC [1]	ND	0.050	µg/L	1		SW-846 8081B	1/28/13	1/29/13 18:14	JMB
delta-BHC [1]	ND	0.050	µg/L	1		SW-846 8081B	1/28/13	1/29/13 18:14	JMB
gamma-BHC (Lindane) [1]	ND	0.030	µg/L	1		SW-846 8081B	1/28/13	1/29/13 18:14	JMB
Chlordane [1]	ND	0.20	µg/L	1		SW-846 8081B	1/28/13	1/29/13 18:14	JMB
4,4'-DDD [1]	ND	0.040	µg/L	1		SW-846 8081B	1/28/13	1/29/13 18:14	JMB
4,4'-DDE [1]	ND	0.040	µg/L	1		SW-846 8081B	1/28/13	1/29/13 18:14	JMB
4,4'-DDT [1]	ND	0.040	µg/L	1		SW-846 8081B	1/28/13	1/29/13 18:14	JMB
Dieldrin [1]	ND	0.0020	µg/L	1		SW-846 8081B	1/28/13	1/29/13 18:14	JMB
Endosulfan I [1]	ND	0.050	µg/L	1		SW-846 8081B	1/28/13	1/29/13 18:14	JMB
Endosulfan II [1]	ND	0.080	µg/L	1		SW-846 8081B	1/28/13	1/29/13 18:14	JMB
Endosulfan sulfate [1]	ND	0.080	µg/L	1		SW-846 8081B	1/28/13	1/29/13 18:14	JMB
Endrin [1]	ND	0.080	µg/L	1		SW-846 8081B	1/28/13	1/29/13 18:14	JMB
Endrin aldehyde [1]	ND	0.080	µg/L	1		SW-846 8081B	1/28/13	1/29/13 18:14	JMB
Endrin ketone [1]	ND	0.080	µg/L	1		SW-846 8081B	1/28/13	1/29/13 18:14	JMB
Heptachlor [1]	ND	0.050	µg/L	1		SW-846 8081B	1/28/13	1/29/13 18:14	JMB
Heptachlor epoxide [1]	ND	0.050	µg/L	1		SW-846 8081B	1/28/13	1/29/13 18:14	JMB
Hexachlorobenzene [1]	ND	0.050	µg/L	1		SW-846 8081B	1/28/13	1/29/13 18:14	JMB
Methoxychlor [1]	ND	0.50	µg/L	1		SW-846 8081B	1/28/13	1/29/13 18:14	JMB
Toxaphene [1]	ND	1.0	µg/L	1		SW-846 8081B	1/28/13	1/29/13 18:14	JMB
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	76.8	30-150							
Decachlorobiphenyl [2]	68.9	30-150							
Tetrachloro-m-xylene [1]	82.7	30-150							
Tetrachloro-m-xylene [2]	78.0	30-150							



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

Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273936

Sampled: 1/24/2013 15:30

Sample ID: 13A0643-57

Sample Matrix: Ground Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	1/28/13	1/29/13 12:02	JMB
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	1/28/13	1/29/13 12:02	JMB
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	1/28/13	1/29/13 12:02	JMB
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	1/28/13	1/29/13 12:02	JMB
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	1/28/13	1/29/13 12:02	JMB
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	1/28/13	1/29/13 12:02	JMB
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	1/28/13	1/29/13 12:02	JMB
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	1/28/13	1/29/13 12:02	JMB
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	1/28/13	1/29/13 12:02	JMB
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	67.5	30-150							
Decachlorobiphenyl [2]	68.3	30-150							
Tetrachloro-m-xylene [1]	74.9	30-150							
Tetrachloro-m-xylene [2]	74.7	30-150							



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

Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273936

Sampled: 1/24/2013 15:30

Sample ID: 13A0643-57

Sample Matrix: Ground Water

#### Herbicides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-D [1]	ND	0.50	µg/L	1		SW-846 8151A	1/30/13	2/1/13 0:37	PJG
2,4,5-TP (Silvex) [1]	ND	0.050	µg/L	1		SW-846 8151A	1/30/13	2/1/13 0:37	PJG
2,4,5-T [2]	ND	0.10	µg/L	1	V-20	SW-846 8151A	1/30/13	2/1/13 0:37	PJG
Dalapon [1]	ND	1.2	µg/L	1		SW-846 8151A	1/30/13	2/1/13 0:37	PJG
Dicamba [1]	ND	0.050	µg/L	1		SW-846 8151A	1/30/13	2/1/13 0:37	PJG
Surrogates	% Recovery	Recovery Limits	Flag						
2,4-Dichlorophenylacetic acid [1]	75.1	30-150							
2,4-Dichlorophenylacetic acid [2]	85.5	30-150							



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

Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273936

Sampled: 1/24/2013 15:30

Sample ID: 13A0643-57

Sample Matrix: Ground Water

#### Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	ND	0.081	mg/L	1		CTDEP ETPH	1/28/13	1/29/13 12:10	SCS
Surrogates	% Recovery		Recovery Limits		Flag				
o-Terphenyl	88.5		50-150			1/29/13 12:10			



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0643

Date Received: 1/24/2013

Field Sample #: 1273936

Sampled: 1/24/2013 15:30

Sample ID: 13A0643-57

Sample Matrix: Ground Water

## Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	2.0	µg/L	5		SW-846 6020A	1/29/13	1/29/13 13:28	KSH
Barium	ND	50	µg/L	5		SW-846 6020A	1/29/13	1/29/13 13:28	KSH
Cadmium	ND	2.5	µg/L	5		SW-846 6020A	1/29/13	1/29/13 13:28	KSH
Chromium	ND	5.0	µg/L	5		SW-846 6020A	1/29/13	1/29/13 13:28	KSH
Copper	ND	25	µg/L	5		SW-846 6020A	1/29/13	1/29/13 13:28	KSH
Lead	ND	5.0	µg/L	5		SW-846 6020A	1/29/13	1/29/13 13:28	KSH
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	1/30/13	1/30/13 12:05	SAJ
Nickel	ND	25	µg/L	5		SW-846 6020A	1/29/13	1/29/13 13:28	KSH
Selenium	ND	25	µg/L	5		SW-846 6020A	1/29/13	1/29/13 13:28	KSH
Silver	ND	2.5	µg/L	5		SW-846 6020A	1/29/13	1/29/13 13:28	KSH
Zinc	ND	50	µg/L	5		SW-846 6020A	1/29/13	1/29/13 13:28	KSH



### Sample Extraction Data

Prep Method: SW-846 3546-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13A0643-42 [1273771]	B066883	15.4	1.00	01/29/13
13A0643-44 [1273773]	B066883	30.3	1.00	01/29/13
13A0643-46 [1273775]	B066883	30.3	1.00	01/29/13
13A0643-49 [1273778]	B066883	15.2	1.00	01/29/13
13A0643-52 [1273781]	B066883	30.2	1.00	01/29/13
13A0643-53 [1273782]	B066883	30.4	2.00	01/29/13

Prep Method: SW-846 3546-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13A0643-11RE1 [1270649]	B066931	30.1	1.00	01/30/13
13A0643-12RE1 [1273766]	B066931	30.1	1.00	01/30/13
13A0643-13RE1 [1273767]	B066931	30.1	1.00	01/30/13
13A0643-14RE1 [1273765]	B066931	30.1	1.00	01/30/13
13A0643-16RE1 [1273763]	B066931	30.2	1.00	01/30/13
13A0643-17RE1 [1273762]	B066931	30.2	1.00	01/30/13
13A0643-18RE1 [1273761]	B066931	30.3	1.00	01/30/13
13A0643-19RE1 [1273741]	B066931	30.2	1.00	01/30/13
13A0643-20RE1 [1273742]	B066931	30.2	1.00	01/30/13
13A0643-21RE1 [1273743]	B066931	30.2	1.00	01/30/13
13A0643-22RE1 [1273744]	B066931	30.0	1.00	01/30/13
13A0643-24RE1 [1273746]	B066931	30.2	1.00	01/30/13
13A0643-26RE1 [1273748]	B066931	30.3	1.00	01/30/13
13A0643-28RE1 [1273750]	B066931	30.2	1.00	01/30/13
13A0643-30RE1 [1273752]	B066931	15.3	1.00	01/30/13
13A0643-34RE1 [1273756]	B066931	30.2	1.00	01/30/13
13A0643-37RE1 [1273759]	B066931	30.2	1.00	01/30/13
13A0643-39RE1 [1273768]	B066931	30.2	1.00	01/30/13
13A0643-40RE1 [1273769]	B066931	30.1	1.00	01/30/13
13A0643-41RE1 [1273770]	B066931	30.2	1.00	01/30/13

Prep Method: SW-846 3546-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13A0643-24RE2 [1273746]	B066988	30.0	1.00	01/31/13

Prep Method: SW-846 3510C-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13A0643-55 [1273935]	B066810	1000	1.00	01/28/13
13A0643-57 [1273936]	B066810	930	1.00	01/28/13

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
13A0643-13 [1273767]	B066802	01/28/13



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

Lab Number [Field ID]	Batch	Date
13A0643-02 [1273791]	B066881	01/29/13
13A0643-03 [1273790]	B066881	01/29/13
13A0643-04 [1273789]	B066881	01/29/13
13A0643-05 [1273788]	B066881	01/29/13
13A0643-06 [1273787]	B066881	01/29/13
13A0643-07 [1273786]	B066881	01/29/13
13A0643-08 [1273785]	B066881	01/29/13
13A0643-09 [1273784]	B066881	01/29/13
13A0643-12 [1273766]	B066881	01/29/13
13A0643-14 [1273765]	B066881	01/29/13
13A0643-15 [1273764]	B066881	01/29/13
13A0643-16 [1273763]	B066881	01/29/13
13A0643-17 [1273762]	B066881	01/29/13
13A0643-18 [1273761]	B066881	01/29/13
13A0643-19 [1273741]	B066881	01/29/13
13A0643-20 [1273742]	B066881	01/29/13
13A0643-21 [1273743]	B066881	01/29/13
13A0643-22 [1273744]	B066881	01/29/13
13A0643-24 [1273746]	B066881	01/29/13
13A0643-26 [1273748]	B066881	01/29/13
13A0643-28 [1273750]	B066881	01/29/13
13A0643-30 [1273752]	B066881	01/29/13
13A0643-34 [1273756]	B066881	01/29/13
13A0643-37 [1273759]	B066881	01/29/13
13A0643-39 [1273768]	B066881	01/29/13
13A0643-40 [1273769]	B066881	01/29/13
13A0643-41 [1273770]	B066881	01/29/13
13A0643-42 [1273771]	B066881	01/29/13
13A0643-44 [1273773]	B066881	01/29/13
13A0643-46 [1273775]	B066881	01/29/13
13A0643-49 [1273778]	B066881	01/29/13
13A0643-52 [1273781]	B066881	01/29/13
13A0643-53 [1273782]	B066881	01/29/13

**Prep Method: % Solids-SM 2540G**

Lab Number [Field ID]	Batch	Date
13A0643-11 [1270649]	B067021	01/31/13

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13A0643-02 [1273791]	B066738	1.05	50.0	01/25/13
13A0643-07 [1273786]	B066738	1.08	50.0	01/25/13
13A0643-11 [1270649]	B066738	1.04	50.0	01/25/13
13A0643-22 [1273744]	B066738	1.01	50.0	01/25/13
13A0643-24 [1273746]	B066738	1.02	50.0	01/25/13
13A0643-26 [1273748]	B066738	1.04	50.0	01/25/13
13A0643-28 [1273750]	B066738	1.02	50.0	01/25/13
13A0643-30 [1273752]	B066738	1.02	50.0	01/25/13
13A0643-34 [1273756]	B066738	1.02	50.0	01/25/13
13A0643-37 [1273759]	B066738	1.04	50.0	01/25/13
13A0643-39 [1273768]	B066738	1.03	50.0	01/25/13



### Sample Extraction Data

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13A0643-40 [1273769]	B066738	1.04	50.0	01/25/13
13A0643-41 [1273770]	B066738	1.01	50.0	01/25/13
13A0643-42 [1273771]	B066738	1.07	50.0	01/25/13
13A0643-44 [1273773]	B066738	1.04	50.0	01/25/13
13A0643-46 [1273775]	B066738	1.01	50.0	01/25/13
13A0643-49 [1273778]	B066738	1.05	50.0	01/25/13
13A0643-52 [1273781]	B066738	1.01	50.0	01/25/13
13A0643-53 [1273782]	B066738	1.04	50.0	01/25/13

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13A0643-04 [1273789]	B066739	1.07	50.0	01/25/13
13A0643-05 [1273788]	B066739	1.06	50.0	01/25/13
13A0643-08 [1273785]	B066739	1.04	50.0	01/25/13
13A0643-09 [1273784]	B066739	1.00	50.0	01/25/13
13A0643-15 [1273764]	B066739	1.08	50.0	01/25/13

Prep Method: SW-846 3005A-SW-846 6020A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13A0643-56 [1273935UF]	B066741	50.0	50.0	01/25/13

Prep Method: SW-846 3005A-SW-846 6020A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13A0643-57 [1273936]	B066804	50.0	50.0	01/29/13

Prep Method: SW-846 7470A Prep-SW-846 7470A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13A0643-56 [1273935UF]	B066890	6.00	6.00	01/30/13
13A0643-57 [1273936]	B066890	6.00	6.00	01/30/13

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13A0643-26 [1273748]	B066743	0.611	50.0	01/25/13
13A0643-28 [1273750]	B066743	0.612	50.0	01/25/13
13A0643-30 [1273752]	B066743	0.606	50.0	01/25/13
13A0643-34 [1273756]	B066743	0.608	50.0	01/25/13
13A0643-37 [1273759]	B066743	0.601	50.0	01/25/13
13A0643-39 [1273768]	B066743	0.616	50.0	01/25/13
13A0643-40 [1273769]	B066743	0.607	50.0	01/25/13
13A0643-41 [1273770]	B066743	0.602	50.0	01/25/13
13A0643-42 [1273771]	B066743	0.612	50.0	01/25/13
13A0643-44 [1273773]	B066743	0.618	50.0	01/25/13
13A0643-46 [1273775]	B066743	0.605	50.0	01/25/13
13A0643-49 [1273778]	B066743	0.608	50.0	01/25/13



### Sample Extraction Data

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13A0643-52 [1273781]	B066743	0.604	50.0	01/25/13
13A0643-53 [1273782]	B066743	0.611	50.0	01/25/13

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13A0643-07 [1273786]	B066744	0.609	50.0	01/25/13
13A0643-11 [1270649]	B066744	0.603	50.0	01/25/13
13A0643-22 [1273744]	B066744	0.604	50.0	01/25/13
13A0643-24 [1273746]	B066744	0.612	50.0	01/25/13

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13A0643-02 [1273791]	B066713	10.2	10.0	01/25/13
13A0643-03 [1273790]	B066713	10.1	10.0	01/25/13
13A0643-04 [1273789]	B066713	10.1	10.0	01/25/13
13A0643-05 [1273788]	B066713	10.4	10.0	01/25/13
13A0643-06 [1273787]	B066713	10.0	10.0	01/25/13
13A0643-07 [1273786]	B066713	10.4	10.0	01/25/13
13A0643-08 [1273785]	B066713	10.4	10.0	01/25/13
13A0643-09 [1273784]	B066713	10.4	10.0	01/25/13
13A0643-11 [1270649]	B066713	10.3	10.0	01/25/13
13A0643-15 [1273764]	B066713	10.3	10.0	01/25/13

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13A0643-39 [1273768]	B066768	10.2	10.0	01/28/13
13A0643-41 [1273770]	B066768	10.1	10.0	01/28/13
13A0643-42 [1273771]	B066768	10.1	10.0	01/28/13
13A0643-46 [1273775]	B066768	10.2	10.0	01/28/13
13A0643-52 [1273781]	B066768	10.2	10.0	01/28/13

Prep Method: SW-846 3510C-SW-846 8081B

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13A0643-57 [1273936]	B066815	1000	10.0	01/28/13

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13A0643-11 [1270649]	B066751	10.3	10.0	01/26/13
13A0643-16 [1273763]	B066751	10.1	10.0	01/26/13
13A0643-17 [1273762]	B066751	10.3	10.0	01/26/13
13A0643-18 [1273761]	B066751	10.4	10.0	01/26/13
13A0643-19 [1273741]	B066751	10.2	10.0	01/26/13
13A0643-20 [1273742]	B066751	10.2	10.0	01/26/13
13A0643-21 [1273743]	B066751	10.3	10.0	01/26/13



**Sample Extraction Data****Prep Method: SW-846 3546-SW-846 8082A**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13A0643-22 [1273744]	B066751	10.2	10.0	01/26/13
13A0643-24 [1273746]	B066751	10.1	10.0	01/26/13
13A0643-26 [1273748]	B066751	10.2	10.0	01/26/13
13A0643-28 [1273750]	B066751	10.4	10.0	01/26/13
13A0643-30 [1273752]	B066751	10.0	10.0	01/26/13
13A0643-34 [1273756]	B066751	10.3	10.0	01/26/13
13A0643-37 [1273759]	B066751	10.2	10.0	01/26/13
13A0643-39 [1273768]	B066751	10.3	10.0	01/26/13
13A0643-40 [1273769]	B066751	10.0	10.0	01/26/13

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13A0643-41 [1273770]	B066767	10.3	10.0	01/28/13
13A0643-42 [1273771]	B066767	10.1	10.0	01/28/13
13A0643-44 [1273773]	B066767	10.1	10.0	01/28/13
13A0643-46 [1273775]	B066767	10.2	10.0	01/28/13
13A0643-49 [1273778]	B066767	10.1	10.0	01/28/13
13A0643-52 [1273781]	B066767	10.2	10.0	01/28/13
13A0643-53 [1273782]	B066767	10.3	10.0	01/28/13

**Prep Method: SW-846 3510C-SW-846 8082A**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13A0643-55 [1273935]	B066788	1000	10.0	01/28/13
13A0643-57 [1273936]	B066788	1000	10.0	01/28/13

**Prep Method: SW-846 8151-SW-846 8151A**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13A0643-41 [1273770]	B066636	20.6	5.00	01/29/13
13A0643-42 [1273771]	B066636	20.1	5.00	01/29/13
13A0643-46 [1273775]	B066636	20.3	5.00	01/29/13
13A0643-52 [1273781]	B066636	20.2	5.00	01/29/13

**Prep Method: SW-846 3510C-SW-846 8151A**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13A0643-57 [1273936]	B066899	1000	5.00	01/30/13

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13A0643-01 [1273937]	B066859	5.00	10.0	01/25/13
13A0643-12 [1273766]	B066859	5.13	10.0	01/25/13
13A0643-13 [1273767]	B066859	4.97	10.0	01/25/13
13A0643-14 [1273765]	B066859	5.64	10.0	01/25/13
13A0643-22 [1273744]	B066859	2.97	10.0	01/25/13
13A0643-24 [1273746]	B066859	5.11	10.0	01/25/13



### Sample Extraction Data

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13A0643-26 [1273748]	B066859	4.72	10.0	01/25/13
13A0643-30 [1273752]	B066859	8.49	10.0	01/25/13
13A0643-34 [1273756]	B066859	5.83	10.0	01/25/13
13A0643-37 [1273759]	B066859	6.77	10.0	01/25/13
13A0643-39 [1273768]	B066859	9.22	10.0	01/25/13

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

Lab Number [Field ID]	Batch	Sample Amount(g)	Methanol Volume(mL)	Methanol Aliquot(mL)	Final Volume(mL)	Date
13A0643-07 [1273786]	B066901	15.8	17.6	1	50	01/30/13
13A0643-11 [1270649]	B066901	13.6	16.0	1	50	01/30/13

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

Lab Number [Field ID]	Batch	Sample Amount(g)	Methanol Volume(mL)	Methanol Aliquot(mL)	Final Volume(mL)	Date
13A0643-26 [1273748]	B066902	5.75	15.9	1	50	01/30/13

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13A0643-28 [1273750]	B066916	6.45	10.0	01/25/13
13A0643-40 [1273769]	B066916	6.57	10.0	01/25/13
13A0643-41 [1273770]	B066916	4.70	10.0	01/25/13
13A0643-42 [1273771]	B066916	4.73	10.0	01/25/13
13A0643-44 [1273773]	B066916	7.26	10.0	01/25/13
13A0643-46 [1273775]	B066916	5.76	10.0	01/25/13
13A0643-49 [1273778]	B066916	5.41	10.0	01/25/13
13A0643-52 [1273781]	B066916	5.54	10.0	01/25/13
13A0643-53 [1273782]	B066916	4.29	10.0	01/25/13
13A0643-53RE1 [1273782]	B066916	3.83	10.0	01/25/13

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13A0643-55 [1273935]	B066796	5	5.00	01/28/13
13A0643-57 [1273936]	B066796	5	5.00	01/28/13

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13A0643-07 [1273786]	B066731	30.1	1.00	01/25/13
13A0643-11 [1270649]	B066731	30.3	1.00	01/25/13
13A0643-12 [1273766]	B066731	30.3	1.00	01/25/13
13A0643-13 [1273767]	B066731	30.0	1.00	01/25/13
13A0643-14 [1273765]	B066731	15.4	1.00	01/25/13



**Sample Extraction Data****Prep Method: SW-846 3546-SW-846 8270D**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13A0643-16 [1273763]	B066821	30.0	1.00	01/29/13
13A0643-17 [1273762]	B066821	30.0	1.00	01/29/13
13A0643-18 [1273761]	B066821	30.1	1.00	01/29/13
13A0643-19 [1273741]	B066821	30.0	1.00	01/29/13
13A0643-20 [1273742]	B066821	30.0	1.00	01/29/13
13A0643-20RE1 [1273742]	B066821	30.0	1.00	01/29/13
13A0643-21 [1273743]	B066821	30.0	1.00	01/29/13
13A0643-22 [1273744]	B066821	30.1	1.00	01/29/13
13A0643-24 [1273746]	B066821	30.1	1.00	01/29/13
13A0643-26 [1273748]	B066821	30.0	1.00	01/29/13
13A0643-28 [1273750]	B066821	30.0	1.00	01/29/13
13A0643-30 [1273752]	B066821	15.0	1.00	01/29/13
13A0643-34 [1273756]	B066821	30.1	1.00	01/29/13
13A0643-37 [1273759]	B066821	30.0	1.00	01/29/13
13A0643-39 [1273768]	B066821	30.0	1.00	01/29/13
13A0643-40 [1273769]	B066821	30.0	1.00	01/29/13
13A0643-41 [1273770]	B066821	30.1	1.00	01/29/13
13A0643-42 [1273771]	B066821	30.0	1.00	01/29/13
13A0643-44 [1273773]	B066821	30.0	1.00	01/29/13
13A0643-46 [1273775]	B066821	30.0	1.00	01/29/13
13A0643-49 [1273778]	B066821	30.0	1.00	01/29/13

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13A0643-52 [1273781]	B066884	30.2	1.00	01/29/13
13A0643-53 [1273782]	B066884	30.2	2.00	01/29/13

**Prep Method: SW-846 3510C-SW-846 8270D**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13A0643-55 [1273935]	B066746	1000	1.00	01/26/13
13A0643-57 [1273936]	B066746	1000	1.00	01/26/13



**QUALITY CONTROL**
**Volatile Organic Compounds by GC/MS - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B066796 - SW-846 5030B**
**Blank (B066796-BLK1)**

Prepared: 01/28/13 Analyzed: 01/30/13

Acetone	ND	5.0	µg/L
Acrylonitrile	ND	2.0	µg/L
Benzene	ND	0.50	µg/L
Bromobenzene	ND	0.50	µg/L
Bromodichloromethane	ND	0.50	µg/L
Bromoform	ND	0.50	µg/L
Bromomethane	ND	0.50	µg/L
2-Butanone (MEK)	ND	5.0	µg/L
n-Butylbenzene	ND	1.0	µg/L
sec-Butylbenzene	ND	1.0	µg/L
tert-Butylbenzene	ND	1.0	µg/L
Carbon Disulfide	ND	5.0	µg/L
Carbon Tetrachloride	ND	0.50	µg/L
Chlorobenzene	ND	0.50	µg/L
Chlorodibromomethane	ND	0.50	µg/L
Chloroethane	ND	0.50	µg/L
Chloroform	ND	0.50	µg/L
Chloromethane	ND	0.50	µg/L
2-Chlorotoluene	ND	0.50	µg/L
4-Chlorotoluene	ND	0.50	µg/L
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.50	µg/L
1,2-Dibromoethane (EDB)	ND	0.50	µg/L
Dibromomethane	ND	0.50	µg/L
1,2-Dichlorobenzene	ND	0.50	µg/L
1,3-Dichlorobenzene	ND	0.50	µg/L
1,4-Dichlorobenzene	ND	0.50	µg/L
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L
Dichlorodifluoromethane (Freon 12)	ND	0.50	µg/L
1,1-Dichloroethane	ND	0.50	µg/L
1,2-Dichloroethane	ND	0.50	µg/L
1,1-Dichloroethylene	ND	0.50	µg/L
cis-1,2-Dichloroethylene	ND	0.50	µg/L
trans-1,2-Dichloroethylene	ND	1.0	µg/L
1,2-Dichloropropane	ND	0.50	µg/L
1,3-Dichloropropane	ND	0.50	µg/L
2,2-Dichloropropane	ND	0.50	µg/L
1,1-Dichloropropene	ND	0.50	µg/L
cis-1,3-Dichloropropene	ND	0.50	µg/L
trans-1,3-Dichloropropene	ND	0.50	µg/L
Ethylbenzene	ND	0.50	µg/L
Hexachlorobutadiene	ND	0.40	µg/L
2-Hexanone (MBK)	ND	5.0	µg/L
Isopropylbenzene (Cumene)	ND	0.50	µg/L
p-Isopropyltoluene (p-Cymene)	ND	0.50	µg/L
Methyl tert-Butyl Ether (MTBE)	ND	0.50	µg/L
Methylene Chloride	ND	5.0	µg/L
4-Methyl-2-pentanone (MIBK)	ND	5.0	µg/L
Naphthalene	ND	2.0	µg/L
n-Propylbenzene	ND	1.0	µg/L
Styrene	ND	1.0	µg/L
1,1,1,2-Tetrachloroethane	ND	0.50	µg/L
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L



**QUALITY CONTROL**
**Volatile Organic Compounds by GC/MS - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B066796 - SW-846 5030B**
**Blank (B066796-BLK1)**

Prepared: 01/28/13 Analyzed: 01/30/13

Tetrachloroethylene	ND	1.0	µg/L							
Tetrahydrofuran	ND	10	µg/L							
Toluene	ND	1.0	µg/L							
1,2,3-Trichlorobenzene	ND	0.50	µg/L							
1,2,4-Trichlorobenzene	ND	0.50	µg/L							
1,1,1-Trichloroethane	ND	0.50	µg/L							
1,1,2-Trichloroethane	ND	0.50	µg/L							
Trichloroethylene	ND	1.0	µg/L							
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L							
1,2,3-Trichloropropane	ND	0.50	µg/L							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	µg/L							
1,2,4-Trimethylbenzene	ND	0.50	µg/L							
1,3,5-Trimethylbenzene	ND	0.50	µg/L							
Vinyl Chloride	ND	1.0	µg/L							
m+p Xylene	ND	2.0	µg/L							
o-Xylene	ND	1.0	µg/L							
Surrogate: 1,2-Dichloroethane-d4	25.0		µg/L	25.0		100	70-130			
Surrogate: Toluene-d8	24.7		µg/L	25.0		98.7	70-130			
Surrogate: 4-Bromofluorobenzene	24.1		µg/L	25.0		96.4	70-130			

**LCS (B066796-BS1)**

Prepared: 01/28/13 Analyzed: 01/30/13

Acetone	110	5.0	µg/L	100		110	70-130			
Acrylonitrile	10.9	2.0	µg/L	10.0		109	70-130			
Benzene	10.4	0.50	µg/L	10.0		104	70-130			
Bromobenzene	10.8	0.50	µg/L	10.0		108	70-130			
Bromodichloromethane	9.79	0.50	µg/L	10.0		97.9	70-130			
Bromoform	9.24	0.50	µg/L	10.0		92.4	70-130			
<b>Bromomethane</b>	15.6	0.50	µg/L	10.0		<b>156</b>	* 70-130			L-01
2-Butanone (MEK)	122	5.0	µg/L	100		122	70-130			
n-Butylbenzene	10.2	1.0	µg/L	10.0		102	70-130			
sec-Butylbenzene	10.0	1.0	µg/L	10.0		100	70-130			
tert-Butylbenzene	10.6	1.0	µg/L	10.0		106	70-130			
Carbon Disulfide	97.6	5.0	µg/L	100		97.6	70-130			
Carbon Tetrachloride	9.12	0.50	µg/L	10.0		91.2	70-130			
Chlorobenzene	11.0	0.50	µg/L	10.0		110	70-130			
Chlorodibromomethane	9.71	0.50	µg/L	10.0		97.1	70-130			
Chloroethane	9.66	0.50	µg/L	10.0		96.6	70-130			
Chloroform	11.0	0.50	µg/L	10.0		110	70-130			
Chloromethane	9.09	0.50	µg/L	10.0		90.9	70-130			
2-Chlorotoluene	10.7	0.50	µg/L	10.0		107	70-130			
4-Chlorotoluene	10.6	0.50	µg/L	10.0		106	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	9.10	0.50	µg/L	10.0		91.0	70-130			
1,2-Dibromoethane (EDB)	10.5	0.50	µg/L	10.0		105	70-130			
Dibromomethane	11.0	0.50	µg/L	10.0		110	70-130			
1,2-Dichlorobenzene	10.6	0.50	µg/L	10.0		106	70-130			
1,3-Dichlorobenzene	10.2	0.50	µg/L	10.0		102	70-130			
1,4-Dichlorobenzene	10.4	0.50	µg/L	10.0		104	70-130			
trans-1,4-Dichloro-2-butene	8.58	2.0	µg/L	10.0		85.8	70-130			
Dichlorodifluoromethane (Freon 12)	10.3	0.50	µg/L	10.0		103	70-130			
1,1-Dichloroethane	10.5	0.50	µg/L	10.0		105	70-130			
1,2-Dichloroethane	10.9	0.50	µg/L	10.0		109	70-130			
1,1-Dichloroethylene	10.1	0.50	µg/L	10.0		101	70-130			



## QUALITY CONTROL

## Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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## Batch B066796 - SW-846 5030B

## LCS (B066796-BS1)

Prepared: 01/28/13 Analyzed: 01/30/13

cis-1,2-Dichloroethylene	10.6	0.50	µg/L	10.0		106	70-130			
trans-1,2-Dichloroethylene	10.5	1.0	µg/L	10.0		105	70-130			
1,2-Dichloropropane	10.5	0.50	µg/L	10.0		105	70-130			
1,3-Dichloropropane	11.1	0.50	µg/L	10.0		111	70-130			
2,2-Dichloropropane	7.78	0.50	µg/L	10.0		77.8	70-130			
1,1-Dichloropropene	9.90	0.50	µg/L	10.0		99.0	70-130			
cis-1,3-Dichloropropene	7.83	0.50	µg/L	10.0		78.3	70-130			
trans-1,3-Dichloropropene	7.62	0.50	µg/L	10.0		76.2	70-130			
Ethylbenzene	10.6	0.50	µg/L	10.0		106	70-130			
Hexachlorobutadiene	10.2	0.40	µg/L	10.0		102	70-130			
2-Hexanone (MBK)	132	5.0	µg/L	100		132	* 70-130			L-01, V-20
Isopropylbenzene (Cumene)	10.3	0.50	µg/L	10.0		103	70-130			
p-Isopropyltoluene (p-Cymene)	10.2	0.50	µg/L	10.0		102	70-130			
Methyl tert-Butyl Ether (MTBE)	11.0	0.50	µg/L	10.0		110	70-130			
Methylene Chloride	9.70	5.0	µg/L	10.0		97.0	70-130			
4-Methyl-2-pentanone (MIBK)	125	5.0	µg/L	100		125	70-130			
Naphthalene	10.4	2.0	µg/L	10.0		104	70-130			
n-Propylbenzene	10.1	1.0	µg/L	10.0		101	70-130			
Styrene	10.2	1.0	µg/L	10.0		102	70-130			
1,1,1,2-Tetrachloroethane	10.6	0.50	µg/L	10.0		106	70-130			
1,1,2,2-Tetrachloroethane	11.3	0.50	µg/L	10.0		113	70-130			
Tetrachloroethylene	10.1	1.0	µg/L	10.0		101	70-130			
Tetrahydrofuran	11.2	10	µg/L	10.0		112	70-130			
Toluene	10.7	1.0	µg/L	10.0		107	70-130			
1,2,3-Trichlorobenzene	9.14	0.50	µg/L	10.0		91.4	70-130			
1,2,4-Trichlorobenzene	8.83	0.50	µg/L	10.0		88.3	70-130			
1,1,1-Trichloroethane	9.50	0.50	µg/L	10.0		95.0	70-130			
1,1,2-Trichloroethane	10.9	0.50	µg/L	10.0		109	70-130			
Trichloroethylene	10.6	1.0	µg/L	10.0		106	70-130			
Trichlorofluoromethane (Freon 11)	10.9	2.0	µg/L	10.0		109	70-130			
1,2,3-Trichloropropane	11.9	0.50	µg/L	10.0		119	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.80	0.50	µg/L	10.0		98.0	70-130			
1,2,4-Trimethylbenzene	10.2	0.50	µg/L	10.0		102	70-130			
1,3,5-Trimethylbenzene	10.6	0.50	µg/L	10.0		106	70-130			
Vinyl Chloride	9.71	1.0	µg/L	10.0		97.1	70-130			
m+p Xylene	21.5	2.0	µg/L	20.0		107	70-130			
o-Xylene	10.6	1.0	µg/L	10.0		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	25.1		µg/L	25.0		100	70-130			
Surrogate: Toluene-d8	25.3		µg/L	25.0		101	70-130			
Surrogate: 4-Bromofluorobenzene	25.0		µg/L	25.0		100	70-130			

## Batch B066859 - SW-846 5035

## Blank (B066859-BLK1)

Prepared &amp; Analyzed: 01/29/13

Acetone	ND	0.10	mg/Kg wet							
Acrylonitrile	ND	0.0060	mg/Kg wet							V-16
Benzene	ND	0.0020	mg/Kg wet							
Bromobenzene	ND	0.0020	mg/Kg wet							
Bromodichloromethane	ND	0.0020	mg/Kg wet							
Bromoform	ND	0.0020	mg/Kg wet							
Bromomethane	ND	0.010	mg/Kg wet							
2-Butanone (MEK)	ND	0.040	mg/Kg wet							



**QUALITY CONTROL**
**Volatile Organic Compounds by GC/MS - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B066859 - SW-846 5035</b>										
<b>Blank (B066859-BLK1)</b>				Prepared & Analyzed: 01/29/13						
n-Butylbenzene	ND	0.0020	mg/Kg wet							
sec-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butylbenzene	ND	0.0020	mg/Kg wet							
Carbon Disulfide	ND	0.0060	mg/Kg wet							
Carbon Tetrachloride	ND	0.0020	mg/Kg wet							
Chlorobenzene	ND	0.0020	mg/Kg wet							
Chlorodibromomethane	ND	0.0010	mg/Kg wet							
Chloroethane	ND	0.020	mg/Kg wet							
Chloroform	ND	0.0040	mg/Kg wet							
Chloromethane	ND	0.010	mg/Kg wet							
2-Chlorotoluene	ND	0.0020	mg/Kg wet							
4-Chlorotoluene	ND	0.0020	mg/Kg wet							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg wet							V-16
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet							
Dibromomethane	ND	0.0020	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet							
trans-1,4-Dichloro-2-butene	ND	0.0040	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.020	mg/Kg wet							
1,1-Dichloroethane	ND	0.0020	mg/Kg wet							
1,2-Dichloroethane	ND	0.0020	mg/Kg wet							
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
1,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,3-Dichloropropane	ND	0.0010	mg/Kg wet							
2,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,1-Dichloropropene	ND	0.0020	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
Ethylbenzene	ND	0.0020	mg/Kg wet							
Hexachlorobutadiene	ND	0.0020	mg/Kg wet							
2-Hexanone (MBK)	ND	0.020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet							
Methylene Chloride	ND	0.020	mg/Kg wet							
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet							
Naphthalene	ND	0.0040	mg/Kg wet							
n-Propylbenzene	ND	0.0020	mg/Kg wet							
Styrene	ND	0.0020	mg/Kg wet							
1,1,1,2-Tetrachloroethane	ND	0.0020	mg/Kg wet							
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg wet							
Tetrachloroethylene	ND	0.0020	mg/Kg wet							
Tetrahydrofuran	ND	0.010	mg/Kg wet							V-16
Toluene	ND	0.0020	mg/Kg wet							
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet							
1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet							
Trichloroethylene	ND	0.0020	mg/Kg wet							



**QUALITY CONTROL**
**Volatile Organic Compounds by GC/MS - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B066859 - SW-846 5035</b>										
<b>Blank (B066859-BLK1)</b>				Prepared & Analyzed: 01/29/13						
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet							
1,2,3-Trichloropropane	ND	0.0020	mg/Kg wet							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet							
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg wet							
Vinyl Chloride	ND	0.010	mg/Kg wet							
m+p Xylene	ND	0.0040	mg/Kg wet							
o-Xylene	ND	0.0020	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0532		mg/Kg wet	0.0500		106	70-130			
Surrogate: Toluene-d8	0.0498		mg/Kg wet	0.0500		99.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.0499		mg/Kg wet	0.0500		99.8	70-130			
<b>LCS (B066859-BS1)</b>				Prepared & Analyzed: 01/29/13						
Acetone	0.226	0.10	mg/Kg wet	0.200		113	70-130			
Acrylonitrile	0.0166	0.0060	mg/Kg wet	0.0200		82.8	70-130			V-16
Benzene	0.0205	0.0020	mg/Kg wet	0.0200		103	70-130			
Bromobenzene	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130			
Bromodichloromethane	0.0217	0.0020	mg/Kg wet	0.0200		108	70-130			
Bromoform	0.0191	0.0020	mg/Kg wet	0.0200		95.6	70-130			
Bromomethane	0.0259	0.010	mg/Kg wet	0.0200		129	70-130			
2-Butanone (MEK)	0.212	0.040	mg/Kg wet	0.200		106	70-130			
n-Butylbenzene	0.0226	0.0020	mg/Kg wet	0.0200		113	70-130			
sec-Butylbenzene	0.0223	0.0020	mg/Kg wet	0.0200		112	70-130			
tert-Butylbenzene	0.0222	0.0020	mg/Kg wet	0.0200		111	70-130			
Carbon Disulfide	0.202	0.0060	mg/Kg wet	0.200		101	70-130			
Carbon Tetrachloride	0.0220	0.0020	mg/Kg wet	0.0200		110	70-130			
Chlorobenzene	0.0196	0.0020	mg/Kg wet	0.0200		98.1	70-130			
Chlorodibromomethane	0.0209	0.0010	mg/Kg wet	0.0200		104	70-130			
Chloroethane	0.0188	0.020	mg/Kg wet	0.0200		94.2	70-130			
Chloroform	0.0218	0.0040	mg/Kg wet	0.0200		109	70-130			
Chloromethane	0.0159	0.010	mg/Kg wet	0.0200		79.6	70-130			
2-Chlorotoluene	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130			
4-Chlorotoluene	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.0207	0.0020	mg/Kg wet	0.0200		104	70-130			V-16
1,2-Dibromoethane (EDB)	0.0206	0.0010	mg/Kg wet	0.0200		103	70-130			
Dibromomethane	0.0203	0.0020	mg/Kg wet	0.0200		102	70-130			
1,2-Dichlorobenzene	0.0207	0.0020	mg/Kg wet	0.0200		103	70-130			
1,3-Dichlorobenzene	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130			
1,4-Dichlorobenzene	0.0203	0.0020	mg/Kg wet	0.0200		102	70-130			
trans-1,4-Dichloro-2-butene	0.0201	0.0040	mg/Kg wet	0.0200		101	70-130			
Dichlorodifluoromethane (Freon 12)	0.0146	0.020	mg/Kg wet	0.0200		72.8	70-130			
1,1-Dichloroethane	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130			
1,2-Dichloroethane	0.0220	0.0020	mg/Kg wet	0.0200		110	70-130			
1,1-Dichloroethylene	0.0190	0.0040	mg/Kg wet	0.0200		94.9	70-130			
cis-1,2-Dichloroethylene	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130			
trans-1,2-Dichloroethylene	0.0215	0.0020	mg/Kg wet	0.0200		108	70-130			
1,2-Dichloropropane	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130			
1,3-Dichloropropane	0.0208	0.0010	mg/Kg wet	0.0200		104	70-130			
2,2-Dichloropropane	0.0203	0.0020	mg/Kg wet	0.0200		102	70-130			
1,1-Dichloropropene	0.0211	0.0020	mg/Kg wet	0.0200		105	70-130			
cis-1,3-Dichloropropene	0.0210	0.0010	mg/Kg wet	0.0200		105	70-130			
trans-1,3-Dichloropropene	0.0204	0.0010	mg/Kg wet	0.0200		102	70-130			



**QUALITY CONTROL**
**Volatile Organic Compounds by GC/MS - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B066859 - SW-846 5035**
**LCS (B066859-BS1)**

Prepared &amp; Analyzed: 01/29/13

Ethylbenzene	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130			
Hexachlorobutadiene	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130			
2-Hexanone (MBK)	0.226	0.020	mg/Kg wet	0.200		113	70-130			
Isopropylbenzene (Cumene)	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130			
p-Isopropyltoluene (p-Cymene)	0.0216	0.0020	mg/Kg wet	0.0200		108	70-130			
Methyl tert-Butyl Ether (MTBE)	0.0197	0.0040	mg/Kg wet	0.0200		98.3	70-130			
Methylene Chloride	0.0207	0.020	mg/Kg wet	0.0200		104	70-130			
4-Methyl-2-pentanone (MIBK)	0.224	0.020	mg/Kg wet	0.200		112	70-130			
Naphthalene	0.0185	0.0040	mg/Kg wet	0.0200		92.7	70-130			
n-Propylbenzene	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130			
Styrene	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130			
1,1,1,2-Tetrachloroethane	0.0203	0.0020	mg/Kg wet	0.0200		102	70-130			
1,1,2,2-Tetrachloroethane	0.0199	0.0010	mg/Kg wet	0.0200		99.6	70-130			
Tetrachloroethylene	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130			
Tetrahydrofuran	0.0181	0.010	mg/Kg wet	0.0200		90.5	70-130			V-16
Toluene	0.0195	0.0020	mg/Kg wet	0.0200		97.7	70-130			
1,2,3-Trichlorobenzene	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130			
1,2,4-Trichlorobenzene	0.0200	0.0020	mg/Kg wet	0.0200		100	70-130			
1,1,1-Trichloroethane	0.0218	0.0020	mg/Kg wet	0.0200		109	70-130			
1,1,2-Trichloroethane	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130			
Trichloroethylene	0.0218	0.0020	mg/Kg wet	0.0200		109	70-130			
Trichlorofluoromethane (Freon 11)	0.0190	0.010	mg/Kg wet	0.0200		95.2	70-130			
1,2,3-Trichloropropane	0.0215	0.0020	mg/Kg wet	0.0200		108	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0191	0.010	mg/Kg wet	0.0200		95.3	70-130			
1,2,4-Trimethylbenzene	0.0221	0.0020	mg/Kg wet	0.0200		110	70-130			
1,3,5-Trimethylbenzene	0.0220	0.0020	mg/Kg wet	0.0200		110	70-130			
Vinyl Chloride	0.0174	0.010	mg/Kg wet	0.0200		86.8	70-130			
m+p Xylene	0.0431	0.0040	mg/Kg wet	0.0400		108	70-130			
o-Xylene	0.0213	0.0020	mg/Kg wet	0.0200		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0524		mg/Kg wet	0.0500		105	70-130			
Surrogate: Toluene-d8	0.0507		mg/Kg wet	0.0500		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.0508		mg/Kg wet	0.0500		102	70-130			

**Matrix Spike (B066859-MS1)**

Source: 13A0643-12

Prepared &amp; Analyzed: 01/29/13

Acetone	0.161	0.11	mg/Kg dry	0.222	ND	72.6	70-130			
Acrylonitrile	0.0174	0.0066	mg/Kg dry	0.0222	ND	78.7	70-130			V-16
Benzene	0.0198	0.0022	mg/Kg dry	0.0222	ND	89.3	70-130			
Bromobenzene	0.0172	0.0022	mg/Kg dry	0.0222	ND	77.8	70-130			
Bromodichloromethane	0.0192	0.0022	mg/Kg dry	0.0222	ND	86.7	70-130			
Bromoform	0.0157	0.0022	mg/Kg dry	0.0222	ND	70.8	70-130			
Bromomethane	0.0206	0.011	mg/Kg dry	0.0222	ND	93.0	70-130			
2-Butanone (MEK)	0.161	0.044	mg/Kg dry	0.222	ND	72.6	70-130			
n-Butylbenzene	0.0216	0.0022	mg/Kg dry	0.0222	ND	97.3	70-130			
sec-Butylbenzene	0.0230	0.0022	mg/Kg dry	0.0222	ND	104	70-130			
tert-Butylbenzene	0.0243	0.0022	mg/Kg dry	0.0222	ND	110	70-130			
Carbon Disulfide	0.0162	0.0066	mg/Kg dry	0.0222	ND	73.1	70-130			
Carbon Tetrachloride	0.0212	0.0022	mg/Kg dry	0.0222	ND	95.6	70-130			
Chlorobenzene	0.0183	0.0022	mg/Kg dry	0.0222	ND	82.7	70-130			
Chlorodibromomethane	0.0175	0.0011	mg/Kg dry	0.0222	ND	78.9	70-130			
Chloroethane	0.0186	0.022	mg/Kg dry	0.0222	ND	84.0	70-130			
Chloroform	0.0215	0.0044	mg/Kg dry	0.0222	ND	96.9	70-130			
Chloromethane	0.0126	0.011	mg/Kg dry	0.0222	ND	57.1 *	70-130			MS-07



## QUALITY CONTROL

## Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B066859 - SW-846 5035</b>										
<b>Matrix Spike (B066859-MS1)</b>	<b>Source: 13A0643-12</b>			Prepared & Analyzed: 01/29/13						
2-Chlorotoluene	0.0180	0.0022	mg/Kg dry	0.0222	ND	81.4	70-130			
4-Chlorotoluene	0.0183	0.0022	mg/Kg dry	0.0222	ND	82.5	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.0176	0.0022	mg/Kg dry	0.0222	ND	79.4	70-130			V-16
1,2-Dibromoethane (EDB)	0.0179	0.0011	mg/Kg dry	0.0222	ND	80.7	70-130			
Dibromomethane	0.0202	0.0022	mg/Kg dry	0.0222	ND	91.0	70-130			
1,2-Dichlorobenzene	0.0179	0.0022	mg/Kg dry	0.0222	ND	80.8	70-130			
1,3-Dichlorobenzene	0.0193	0.0022	mg/Kg dry	0.0222	ND	86.9	70-130			
1,4-Dichlorobenzene	0.0195	0.0022	mg/Kg dry	0.0222	ND	88.1	70-130			
trans-1,4-Dichloro-2-butene	0.0161	0.0044	mg/Kg dry	0.0222	ND	72.9	70-130			
<b>Dichlorodifluoromethane (Freon 12)</b>	0.00809	0.022	mg/Kg dry	0.0222	ND	<b>36.5</b> *	70-130			MS-07
1,1-Dichloroethane	0.0207	0.0022	mg/Kg dry	0.0222	ND	93.3	70-130			
1,2-Dichloroethane	0.0212	0.0022	mg/Kg dry	0.0222	ND	95.5	70-130			
1,1-Dichloroethylene	0.0178	0.0044	mg/Kg dry	0.0222	ND	80.2	70-130			
cis-1,2-Dichloroethylene	0.0203	0.0022	mg/Kg dry	0.0222	ND	91.8	70-130			
trans-1,2-Dichloroethylene	0.0205	0.0022	mg/Kg dry	0.0222	ND	92.4	70-130			
1,2-Dichloropropane	0.0192	0.0022	mg/Kg dry	0.0222	ND	86.7	70-130			
1,3-Dichloropropane	0.0189	0.0011	mg/Kg dry	0.0222	ND	85.2	70-130			
2,2-Dichloropropane	0.0199	0.0022	mg/Kg dry	0.0222	ND	90.0	70-130			
1,1-Dichloropropene	0.0203	0.0022	mg/Kg dry	0.0222	ND	91.5	70-130			
cis-1,3-Dichloropropene	0.0180	0.0011	mg/Kg dry	0.0222	ND	81.2	70-130			
trans-1,3-Dichloropropene	0.0179	0.0011	mg/Kg dry	0.0222	ND	80.8	70-130			
Ethylbenzene	0.0210	0.0022	mg/Kg dry	0.0222	ND	94.9	70-130			
Hexachlorobutadiene	0.0168	0.0022	mg/Kg dry	0.0222	ND	75.8	70-130			
2-Hexanone (MBK)	0.162	0.022	mg/Kg dry	0.222	ND	73.2	70-130			
Isopropylbenzene (Cumene)	0.0192	0.0022	mg/Kg dry	0.0222	ND	86.7	70-130			
p-Isopropyltoluene (p-Cymene)	0.0239	0.0022	mg/Kg dry	0.0222	ND	108	70-130			
Methyl tert-Butyl Ether (MTBE)	0.0207	0.0044	mg/Kg dry	0.0222	ND	93.5	70-130			
Methylene Chloride	0.0228	0.022	mg/Kg dry	0.0222	ND	103	70-130			
4-Methyl-2-pentanone (MIBK)	0.176	0.022	mg/Kg dry	0.222	ND	79.7	70-130			
<b>Naphthalene</b>	0.00959	0.0044	mg/Kg dry	0.0222	ND	<b>43.3</b> *	70-130			MS-07
n-Propylbenzene	0.0189	0.0022	mg/Kg dry	0.0222	ND	85.4	70-130			
Styrene	0.0188	0.0022	mg/Kg dry	0.0222	ND	84.7	70-130			
1,1,1,2-Tetrachloroethane	0.0202	0.0022	mg/Kg dry	0.0222	ND	91.1	70-130			
1,1,2,2-Tetrachloroethane	0.0164	0.0011	mg/Kg dry	0.0222	ND	74.2	70-130			
Tetrachloroethylene	0.0201	0.0022	mg/Kg dry	0.0222	ND	90.9	70-130			
Tetrahydrofuran	0.0161	0.011	mg/Kg dry	0.0222	ND	72.8	70-130			V-16
Toluene	0.0192	0.0022	mg/Kg dry	0.0222	ND	86.6	70-130			
<b>1,2,3-Trichlorobenzene</b>	0.0103	0.0022	mg/Kg dry	0.0222	ND	<b>46.5</b> *	70-130			MS-07
<b>1,2,4-Trichlorobenzene</b>	0.0114	0.0022	mg/Kg dry	0.0222	ND	<b>51.4</b> *	70-130			MS-07
1,1,1-Trichloroethane	0.0208	0.0022	mg/Kg dry	0.0222	ND	94.0	70-130			
1,1,2-Trichloroethane	0.0179	0.0022	mg/Kg dry	0.0222	ND	80.6	70-130			
Trichloroethylene	0.0203	0.0022	mg/Kg dry	0.0222	ND	91.8	70-130			
Trichlorofluoromethane (Freon 11)	0.0181	0.011	mg/Kg dry	0.0222	ND	81.6	70-130			
1,2,3-Trichloropropane	0.0175	0.0022	mg/Kg dry	0.0222	ND	79.1	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0203	0.011	mg/Kg dry	0.0222	ND	91.5	70-130			
1,2,4-Trimethylbenzene	0.0235	0.0022	mg/Kg dry	0.0222	ND	106	70-130			
1,3,5-Trimethylbenzene	0.0190	0.0022	mg/Kg dry	0.0222	ND	85.7	70-130			
<b>Vinyl Chloride</b>	0.0132	0.011	mg/Kg dry	0.0222	ND	<b>59.7</b> *	70-130			MS-07
m+p Xylene	0.0408	0.0044	mg/Kg dry	0.0443	ND	92.0	70-130			
o-Xylene	0.0198	0.0022	mg/Kg dry	0.0222	ND	89.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0579		mg/Kg dry	0.0554		105	70-130			



**QUALITY CONTROL**
**Volatile Organic Compounds by GC/MS - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B066859 - SW-846 5035**
**Matrix Spike (B066859-MS1)**
**Source: 13A0643-12**

Prepared &amp; Analyzed: 01/29/13

Surrogate: Toluene-d8	0.0560		mg/Kg dry	0.0554		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.0509		mg/Kg dry	0.0554		91.9	70-130			

**Batch B066901 - SW-846 5035**
**Blank (B066901-BLK1)**

Prepared &amp; Analyzed: 01/30/13

Acetone	ND	2.5	mg/Kg wet
Acrylonitrile	ND	0.25	mg/Kg wet
Benzene	ND	0.050	mg/Kg wet
Bromobenzene	ND	0.050	mg/Kg wet
Bromodichloromethane	ND	0.10	mg/Kg wet
Bromoform	ND	0.050	mg/Kg wet
Bromomethane	ND	0.10	mg/Kg wet
2-Butanone (MEK)	ND	1.0	mg/Kg wet
n-Butylbenzene	ND	0.050	mg/Kg wet
sec-Butylbenzene	ND	0.050	mg/Kg wet
tert-Butylbenzene	ND	0.050	mg/Kg wet
Carbon Disulfide	ND	0.15	mg/Kg wet
Carbon Tetrachloride	ND	0.050	mg/Kg wet
Chlorobenzene	ND	0.050	mg/Kg wet
Chlorodibromomethane	ND	0.025	mg/Kg wet
Chloroethane	ND	0.10	mg/Kg wet
Chloroform	ND	0.10	mg/Kg wet
Chloromethane	ND	0.10	mg/Kg wet
2-Chlorotoluene	ND	0.050	mg/Kg wet
4-Chlorotoluene	ND	0.050	mg/Kg wet
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.25	mg/Kg wet
1,2-Dibromoethane (EDB)	ND	0.050	mg/Kg wet
Dibromomethane	ND	0.050	mg/Kg wet
1,2-Dichlorobenzene	ND	0.050	mg/Kg wet
1,3-Dichlorobenzene	ND	0.050	mg/Kg wet
1,4-Dichlorobenzene	ND	0.050	mg/Kg wet
trans-1,4-Dichloro-2-butene	ND	0.10	mg/Kg wet
Dichlorodifluoromethane (Freon 12)	ND	0.10	mg/Kg wet
1,1-Dichloroethane	ND	0.050	mg/Kg wet
1,2-Dichloroethane	ND	0.050	mg/Kg wet
1,1-Dichloroethylene	ND	0.050	mg/Kg wet
cis-1,2-Dichloroethylene	ND	0.050	mg/Kg wet
trans-1,2-Dichloroethylene	ND	0.050	mg/Kg wet
1,2-Dichloropropane	ND	0.050	mg/Kg wet
1,3-Dichloropropane	ND	0.025	mg/Kg wet
2,2-Dichloropropane	ND	0.050	mg/Kg wet
1,1-Dichloropropene	ND	0.10	mg/Kg wet
cis-1,3-Dichloropropene	ND	0.025	mg/Kg wet
trans-1,3-Dichloropropene	ND	0.025	mg/Kg wet
Ethylbenzene	ND	0.050	mg/Kg wet
Hexachlorobutadiene	ND	0.050	mg/Kg wet
2-Hexanone (MBK)	ND	0.50	mg/Kg wet
Isopropylbenzene (Cumene)	ND	0.050	mg/Kg wet
p-Isopropyltoluene (p-Cymene)	ND	0.050	mg/Kg wet
Methyl tert-Butyl Ether (MTBE)	ND	0.050	mg/Kg wet
Methylene Chloride	ND	0.25	mg/Kg wet



**QUALITY CONTROL**
**Volatile Organic Compounds by GC/MS - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B066901 - SW-846 5035**
**Blank (B066901-BLK1)**

Prepared &amp; Analyzed: 01/30/13

4-Methyl-2-pentanone (MIBK)	ND	0.50	mg/Kg wet							
Naphthalene	ND	0.10	mg/Kg wet							
n-Propylbenzene	ND	0.050	mg/Kg wet							
Styrene	ND	0.050	mg/Kg wet							
1,1,1,2-Tetrachloroethane	ND	0.050	mg/Kg wet							
1,1,2,2-Tetrachloroethane	ND	0.025	mg/Kg wet							
Tetrachloroethylene	ND	0.050	mg/Kg wet							
Tetrahydrofuran	ND	0.50	mg/Kg wet							
Toluene	ND	0.050	mg/Kg wet							
1,2,3-Trichlorobenzene	ND	0.25	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.050	mg/Kg wet							
1,1,1-Trichloroethane	ND	0.050	mg/Kg wet							
1,1,2-Trichloroethane	ND	0.050	mg/Kg wet							
Trichloroethylene	ND	0.050	mg/Kg wet							
Trichlorofluoromethane (Freon 11)	ND	0.10	mg/Kg wet							
1,2,3-Trichloropropane	ND	0.10	mg/Kg wet							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.050	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.050	mg/Kg wet							
1,3,5-Trimethylbenzene	ND	0.050	mg/Kg wet							
Vinyl Chloride	ND	0.10	mg/Kg wet							
m+p Xylene	ND	0.10	mg/Kg wet							
o-Xylene	ND	0.050	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0249		mg/Kg wet	0.0250		99.7	70-130			
Surrogate: Toluene-d8	0.0257		mg/Kg wet	0.0250		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.0245		mg/Kg wet	0.0250		97.9	70-130			

**LCS (B066901-BS1)**

Prepared &amp; Analyzed: 01/30/13

Acetone	0.126	0.057	mg/Kg wet	0.113		111	70-130			
Acrylonitrile	0.0111	0.0057	mg/Kg wet	0.0113		98.0	70-130			
Benzene	0.0109	0.0011	mg/Kg wet	0.0113		96.3	70-130			
Bromobenzene	0.0112	0.0011	mg/Kg wet	0.0113		99.2	70-130			
Bromodichloromethane	0.0107	0.0023	mg/Kg wet	0.0113		94.1	70-130			
Bromoform	0.0100	0.0011	mg/Kg wet	0.0113		88.3	70-130			
<b>Bromomethane</b>	0.0181	0.0023	mg/Kg wet	0.0113		<b>160</b>	<b>*</b> 70-130			L-01, V-20
2-Butanone (MEK)	0.130	0.023	mg/Kg wet	0.113		114	70-130			
n-Butylbenzene	0.0117	0.0011	mg/Kg wet	0.0113		104	70-130			
sec-Butylbenzene	0.0115	0.0011	mg/Kg wet	0.0113		101	70-130			
tert-Butylbenzene	0.0115	0.0011	mg/Kg wet	0.0113		102	70-130			
Carbon Disulfide	0.108	0.0034	mg/Kg wet	0.113		95.3	70-130			
Carbon Tetrachloride	0.0111	0.0011	mg/Kg wet	0.0113		98.3	70-130			
Chlorobenzene	0.0111	0.0011	mg/Kg wet	0.0113		97.8	70-130			
Chlorodibromomethane	0.0104	0.00057	mg/Kg wet	0.0113		92.2	70-130			
Chloroethane	0.0104	0.0023	mg/Kg wet	0.0113		91.6	70-130			
Chloroform	0.0119	0.0023	mg/Kg wet	0.0113		105	70-130			
Chloromethane	0.00833	0.0023	mg/Kg wet	0.0113		73.5	70-130			
2-Chlorotoluene	0.0114	0.0011	mg/Kg wet	0.0113		100	70-130			
4-Chlorotoluene	0.0111	0.0011	mg/Kg wet	0.0113		97.7	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.00979	0.0057	mg/Kg wet	0.0113		86.4	70-130			
1,2-Dibromoethane (EDB)	0.0108	0.0011	mg/Kg wet	0.0113		95.4	70-130			
Dibromomethane	0.0115	0.0011	mg/Kg wet	0.0113		101	70-130			
1,2-Dichlorobenzene	0.0113	0.0011	mg/Kg wet	0.0113		100	70-130			
1,3-Dichlorobenzene	0.0110	0.0011	mg/Kg wet	0.0113		97.3	70-130			



**QUALITY CONTROL**
**Volatile Organic Compounds by GC/MS - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B066901 - SW-846 5035</b>										
<b>LCS (B066901-BS1)</b>				Prepared & Analyzed: 01/30/13						
1,4-Dichlorobenzene	0.0113	0.0011	mg/Kg wet	0.0113		100	70-130			
trans-1,4-Dichloro-2-butene	0.00849	0.0023	mg/Kg wet	0.0113		74.9	70-130			
Dichlorodifluoromethane (Freon 12)	0.00957	0.0023	mg/Kg wet	0.0113		84.4	70-130			
1,1-Dichloroethane	0.0112	0.0011	mg/Kg wet	0.0113		99.0	70-130			
1,2-Dichloroethane	0.0118	0.0011	mg/Kg wet	0.0113		104	70-130			
1,1-Dichloroethylene	0.0107	0.0011	mg/Kg wet	0.0113		94.2	70-130			
cis-1,2-Dichloroethylene	0.0114	0.0011	mg/Kg wet	0.0113		101	70-130			
trans-1,2-Dichloroethylene	0.0116	0.0011	mg/Kg wet	0.0113		102	70-130			
1,2-Dichloropropane	0.0110	0.0011	mg/Kg wet	0.0113		97.4	70-130			
1,3-Dichloropropane	0.0115	0.00057	mg/Kg wet	0.0113		101	70-130			
2,2-Dichloropropane	0.00924	0.0011	mg/Kg wet	0.0113		81.5	70-130			
1,1-Dichloropropene	0.0111	0.0023	mg/Kg wet	0.0113		97.7	70-130			
cis-1,3-Dichloropropene	0.00860	0.00057	mg/Kg wet	0.0113		75.9	70-130			
trans-1,3-Dichloropropene	0.00802	0.00057	mg/Kg wet	0.0113		70.8	70-130			
Ethylbenzene	0.0112	0.0011	mg/Kg wet	0.0113		99.2	70-130			
Hexachlorobutadiene	0.0111	0.0011	mg/Kg wet	0.0113		97.9	70-130			
2-Hexanone (MBK)	0.126	0.011	mg/Kg wet	0.113		111	70-130			
Isopropylbenzene (Cumene)	0.0111	0.0011	mg/Kg wet	0.0113		97.8	70-130			
p-Isopropyltoluene (p-Cymene)	0.0113	0.0011	mg/Kg wet	0.0113		99.5	70-130			
Methyl tert-Butyl Ether (MTBE)	0.0114	0.0011	mg/Kg wet	0.0113		101	70-130			
Methylene Chloride	0.0112	0.0057	mg/Kg wet	0.0113		99.2	70-130			
4-Methyl-2-pentanone (MIBK)	0.126	0.011	mg/Kg wet	0.113		111	70-130			
Naphthalene	0.0100	0.0023	mg/Kg wet	0.0113		88.2	70-130			
n-Propylbenzene	0.0113	0.0011	mg/Kg wet	0.0113		99.6	70-130			
Styrene	0.0107	0.0011	mg/Kg wet	0.0113		94.2	70-130			
1,1,1,2-Tetrachloroethane	0.0111	0.0011	mg/Kg wet	0.0113		98.3	70-130			
1,1,2,2-Tetrachloroethane	0.0114	0.00057	mg/Kg wet	0.0113		100	70-130			
Tetrachloroethylene	0.0110	0.0011	mg/Kg wet	0.0113		97.2	70-130			
Tetrahydrofuran	0.0109	0.011	mg/Kg wet	0.0113		96.1	70-130			
Toluene	0.0109	0.0011	mg/Kg wet	0.0113		96.6	70-130			
1,2,3-Trichlorobenzene	0.00875	0.0057	mg/Kg wet	0.0113		77.2	70-130			
1,2,4-Trichlorobenzene	0.00838	0.0011	mg/Kg wet	0.0113		73.9	70-130			
1,1,1-Trichloroethane	0.0106	0.0011	mg/Kg wet	0.0113		93.5	70-130			
1,1,2-Trichloroethane	0.0113	0.0011	mg/Kg wet	0.0113		99.3	70-130			
Trichloroethylene	0.0110	0.0011	mg/Kg wet	0.0113		97.1	70-130			
Trichlorofluoromethane (Freon 11)	0.0128	0.0023	mg/Kg wet	0.0113		113	70-130			
1,2,3-Trichloropropane	0.0122	0.0023	mg/Kg wet	0.0113		107	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0116	0.0011	mg/Kg wet	0.0113		102	70-130			
1,2,4-Trimethylbenzene	0.0115	0.0011	mg/Kg wet	0.0113		101	70-130			
1,3,5-Trimethylbenzene	0.0114	0.0011	mg/Kg wet	0.0113		101	70-130			
Vinyl Chloride	0.0104	0.0023	mg/Kg wet	0.0113		91.8	70-130			
m+p Xylene	0.0230	0.0023	mg/Kg wet	0.0227		102	70-130			
o-Xylene	0.0114	0.0011	mg/Kg wet	0.0113		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0290		mg/Kg wet	0.0250		116	70-130			
Surrogate: Toluene-d8	0.0280		mg/Kg wet	0.0250		112	70-130			
Surrogate: 4-Bromofluorobenzene	0.0281		mg/Kg wet	0.0250		113	70-130			



**QUALITY CONTROL**
**Volatile Organic Compounds by GC/MS - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B066902 - SW-846 5035**
**Blank (B066902-BLK1)**

Prepared &amp; Analyzed: 01/30/13

Acetone	ND	2.5	mg/Kg wet
Acrylonitrile	ND	0.25	mg/Kg wet
Benzene	ND	0.050	mg/Kg wet
Bromobenzene	ND	0.050	mg/Kg wet
Bromodichloromethane	ND	0.10	mg/Kg wet
Bromoform	ND	0.050	mg/Kg wet
Bromomethane	ND	0.10	mg/Kg wet
2-Butanone (MEK)	ND	1.0	mg/Kg wet
n-Butylbenzene	ND	0.050	mg/Kg wet
sec-Butylbenzene	ND	0.050	mg/Kg wet
tert-Butylbenzene	ND	0.050	mg/Kg wet
Carbon Disulfide	ND	0.15	mg/Kg wet
Carbon Tetrachloride	ND	0.050	mg/Kg wet
Chlorobenzene	ND	0.050	mg/Kg wet
Chlorodibromomethane	ND	0.025	mg/Kg wet
Chloroethane	ND	0.10	mg/Kg wet
Chloroform	ND	0.10	mg/Kg wet
Chloromethane	ND	0.10	mg/Kg wet
2-Chlorotoluene	ND	0.050	mg/Kg wet
4-Chlorotoluene	ND	0.050	mg/Kg wet
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.25	mg/Kg wet
1,2-Dibromoethane (EDB)	ND	0.050	mg/Kg wet
Dibromomethane	ND	0.050	mg/Kg wet
1,2-Dichlorobenzene	ND	0.050	mg/Kg wet
1,3-Dichlorobenzene	ND	0.050	mg/Kg wet
1,4-Dichlorobenzene	ND	0.050	mg/Kg wet
trans-1,4-Dichloro-2-butene	ND	0.10	mg/Kg wet
Dichlorodifluoromethane (Freon 12)	ND	0.10	mg/Kg wet
1,1-Dichloroethane	ND	0.050	mg/Kg wet
1,2-Dichloroethane	ND	0.050	mg/Kg wet
1,1-Dichloroethylene	ND	0.050	mg/Kg wet
cis-1,2-Dichloroethylene	ND	0.050	mg/Kg wet
trans-1,2-Dichloroethylene	ND	0.050	mg/Kg wet
1,2-Dichloropropane	ND	0.050	mg/Kg wet
1,3-Dichloropropane	ND	0.025	mg/Kg wet
2,2-Dichloropropane	ND	0.050	mg/Kg wet
1,1-Dichloropropene	ND	0.10	mg/Kg wet
cis-1,3-Dichloropropene	ND	0.025	mg/Kg wet
trans-1,3-Dichloropropene	ND	0.025	mg/Kg wet
Ethylbenzene	ND	0.050	mg/Kg wet
Hexachlorobutadiene	ND	0.050	mg/Kg wet
2-Hexanone (MBK)	ND	0.50	mg/Kg wet
Isopropylbenzene (Cumene)	ND	0.050	mg/Kg wet
p-Isopropyltoluene (p-Cymene)	ND	0.050	mg/Kg wet
Methyl tert-Butyl Ether (MTBE)	ND	0.050	mg/Kg wet
Methylene Chloride	ND	0.25	mg/Kg wet
4-Methyl-2-pentanone (MIBK)	ND	0.50	mg/Kg wet
Naphthalene	ND	0.10	mg/Kg wet
n-Propylbenzene	ND	0.050	mg/Kg wet
Styrene	ND	0.050	mg/Kg wet
1,1,1,2-Tetrachloroethane	ND	0.050	mg/Kg wet
1,1,2,2-Tetrachloroethane	ND	0.025	mg/Kg wet



**QUALITY CONTROL**
**Volatile Organic Compounds by GC/MS - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B066902 - SW-846 5035**
**Blank (B066902-BLK1)**

Prepared &amp; Analyzed: 01/30/13

Tetrachloroethylene	ND	0.050	mg/Kg wet							
Tetrahydrofuran	ND	0.50	mg/Kg wet							
Toluene	ND	0.050	mg/Kg wet							
1,2,3-Trichlorobenzene	ND	0.25	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.050	mg/Kg wet							
1,1,1-Trichloroethane	ND	0.050	mg/Kg wet							
1,1,2-Trichloroethane	ND	0.050	mg/Kg wet							
Trichloroethylene	ND	0.050	mg/Kg wet							
Trichlorofluoromethane (Freon 11)	ND	0.10	mg/Kg wet							
1,2,3-Trichloropropane	ND	0.10	mg/Kg wet							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.050	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.050	mg/Kg wet							
1,3,5-Trimethylbenzene	ND	0.050	mg/Kg wet							
Vinyl Chloride	ND	0.10	mg/Kg wet							
m+p Xylene	ND	0.10	mg/Kg wet							
o-Xylene	ND	0.050	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0249		mg/Kg wet	0.0250		99.7	70-130			
Surrogate: Toluene-d8	0.0257		mg/Kg wet	0.0250		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.0245		mg/Kg wet	0.0250		97.9	70-130			

**LCS (B066902-BS1)**

Prepared &amp; Analyzed: 01/30/13

Acetone	0.126	0.057	mg/Kg wet	0.113		111	70-130			
Acrylonitrile	0.0111	0.0057	mg/Kg wet	0.0113		98.0	70-130			
Benzene	0.0109	0.0011	mg/Kg wet	0.0113		96.3	70-130			
Bromobenzene	0.0112	0.0011	mg/Kg wet	0.0113		99.2	70-130			
Bromodichloromethane	0.0107	0.0023	mg/Kg wet	0.0113		94.1	70-130			
Bromoform	0.0100	0.0011	mg/Kg wet	0.0113		88.3	70-130			
<b>Bromomethane</b>	0.0181	0.0023	mg/Kg wet	0.0113		<b>160</b>	70-130	*		L-01, V-20
2-Butanone (MEK)	0.130	0.023	mg/Kg wet	0.113		114	70-130			
n-Butylbenzene	0.0117	0.0011	mg/Kg wet	0.0113		104	70-130			
sec-Butylbenzene	0.0115	0.0011	mg/Kg wet	0.0113		101	70-130			
tert-Butylbenzene	0.0115	0.0011	mg/Kg wet	0.0113		102	70-130			
Carbon Disulfide	0.108	0.0034	mg/Kg wet	0.113		95.3	70-130			
Carbon Tetrachloride	0.0111	0.0011	mg/Kg wet	0.0113		98.3	70-130			
Chlorobenzene	0.0111	0.0011	mg/Kg wet	0.0113		97.8	70-130			
Chlorodibromomethane	0.0104	0.00057	mg/Kg wet	0.0113		92.2	70-130			
Chloroethane	0.0104	0.0023	mg/Kg wet	0.0113		91.6	70-130			
Chloroform	0.0119	0.0023	mg/Kg wet	0.0113		105	70-130			
Chloromethane	0.00833	0.0023	mg/Kg wet	0.0113		73.5	70-130			
2-Chlorotoluene	0.0114	0.0011	mg/Kg wet	0.0113		100	70-130			
4-Chlorotoluene	0.0111	0.0011	mg/Kg wet	0.0113		97.7	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.00979	0.0057	mg/Kg wet	0.0113		86.4	70-130			
1,2-Dibromoethane (EDB)	0.0108	0.0011	mg/Kg wet	0.0113		95.4	70-130			
Dibromomethane	0.0115	0.0011	mg/Kg wet	0.0113		101	70-130			
1,2-Dichlorobenzene	0.0113	0.0011	mg/Kg wet	0.0113		100	70-130			
1,3-Dichlorobenzene	0.0110	0.0011	mg/Kg wet	0.0113		97.3	70-130			
1,4-Dichlorobenzene	0.0113	0.0011	mg/Kg wet	0.0113		100	70-130			
trans-1,4-Dichloro-2-butene	0.00849	0.0023	mg/Kg wet	0.0113		74.9	70-130			
Dichlorodifluoromethane (Freon 12)	0.00957	0.0023	mg/Kg wet	0.0113		84.4	70-130			
1,1-Dichloroethane	0.0112	0.0011	mg/Kg wet	0.0113		99.0	70-130			
1,2-Dichloroethane	0.0118	0.0011	mg/Kg wet	0.0113		104	70-130			
1,1-Dichloroethylene	0.0107	0.0011	mg/Kg wet	0.0113		94.2	70-130			



**QUALITY CONTROL**
**Volatile Organic Compounds by GC/MS - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B066902 - SW-846 5035**
**LCS (B066902-BS1)**

Prepared &amp; Analyzed: 01/30/13

cis-1,2-Dichloroethylene	0.0114	0.0011	mg/Kg wet	0.0113		101	70-130			
trans-1,2-Dichloroethylene	0.0116	0.0011	mg/Kg wet	0.0113		102	70-130			
1,2-Dichloropropane	0.0110	0.0011	mg/Kg wet	0.0113		97.4	70-130			
1,3-Dichloropropane	0.0115	0.00057	mg/Kg wet	0.0113		101	70-130			
2,2-Dichloropropane	0.00924	0.0011	mg/Kg wet	0.0113		81.5	70-130			
1,1-Dichloropropene	0.0111	0.0023	mg/Kg wet	0.0113		97.7	70-130			
cis-1,3-Dichloropropene	0.00860	0.00057	mg/Kg wet	0.0113		75.9	70-130			
trans-1,3-Dichloropropene	0.00802	0.00057	mg/Kg wet	0.0113		70.8	70-130			
Ethylbenzene	0.0112	0.0011	mg/Kg wet	0.0113		99.2	70-130			
Hexachlorobutadiene	0.0111	0.0011	mg/Kg wet	0.0113		97.9	70-130			
2-Hexanone (MBK)	0.126	0.011	mg/Kg wet	0.113		111	70-130			
Isopropylbenzene (Cumene)	0.0111	0.0011	mg/Kg wet	0.0113		97.8	70-130			
p-Isopropyltoluene (p-Cymene)	0.0113	0.0011	mg/Kg wet	0.0113		99.5	70-130			
Methyl tert-Butyl Ether (MTBE)	0.0114	0.0011	mg/Kg wet	0.0113		101	70-130			
Methylene Chloride	0.0112	0.0057	mg/Kg wet	0.0113		99.2	70-130			
4-Methyl-2-pentanone (MIBK)	0.126	0.011	mg/Kg wet	0.113		111	70-130			
Naphthalene	0.0100	0.0023	mg/Kg wet	0.0113		88.2	70-130			
n-Propylbenzene	0.0113	0.0011	mg/Kg wet	0.0113		99.6	70-130			
Styrene	0.0107	0.0011	mg/Kg wet	0.0113		94.2	70-130			
1,1,1,2-Tetrachloroethane	0.0111	0.0011	mg/Kg wet	0.0113		98.3	70-130			
1,1,2,2-Tetrachloroethane	0.0114	0.00057	mg/Kg wet	0.0113		100	70-130			
Tetrachloroethylene	0.0110	0.0011	mg/Kg wet	0.0113		97.2	70-130			
Tetrahydrofuran	0.0109	0.011	mg/Kg wet	0.0113		96.1	70-130			
Toluene	0.0109	0.0011	mg/Kg wet	0.0113		96.6	70-130			
1,2,3-Trichlorobenzene	0.00875	0.0057	mg/Kg wet	0.0113		77.2	70-130			
1,2,4-Trichlorobenzene	0.00838	0.0011	mg/Kg wet	0.0113		73.9	70-130			
1,1,1-Trichloroethane	0.0106	0.0011	mg/Kg wet	0.0113		93.5	70-130			
1,1,2-Trichloroethane	0.0113	0.0011	mg/Kg wet	0.0113		99.3	70-130			
Trichloroethylene	0.0110	0.0011	mg/Kg wet	0.0113		97.1	70-130			
Trichlorofluoromethane (Freon 11)	0.0128	0.0023	mg/Kg wet	0.0113		113	70-130			
1,2,3-Trichloropropane	0.0122	0.0023	mg/Kg wet	0.0113		107	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0116	0.0011	mg/Kg wet	0.0113		102	70-130			
1,2,4-Trimethylbenzene	0.0115	0.0011	mg/Kg wet	0.0113		101	70-130			
1,3,5-Trimethylbenzene	0.0114	0.0011	mg/Kg wet	0.0113		101	70-130			
Vinyl Chloride	0.0104	0.0023	mg/Kg wet	0.0113		91.8	70-130			
m+p Xylene	0.0230	0.0023	mg/Kg wet	0.0227		102	70-130			
o-Xylene	0.0114	0.0011	mg/Kg wet	0.0113		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0290		mg/Kg wet	0.0250		116	70-130			
Surrogate: Toluene-d8	0.0280		mg/Kg wet	0.0250		112	70-130			
Surrogate: 4-Bromofluorobenzene	0.0281		mg/Kg wet	0.0250		113	70-130			

**Batch B066916 - SW-846 5035**
**Blank (B066916-BLK1)**

Prepared &amp; Analyzed: 01/30/13

Acetone	ND	0.10	mg/Kg wet							
Acrylonitrile	ND	0.0060	mg/Kg wet							V-16
Benzene	ND	0.0020	mg/Kg wet							
Bromobenzene	ND	0.0020	mg/Kg wet							
Bromodichloromethane	ND	0.0020	mg/Kg wet							
Bromoform	ND	0.0020	mg/Kg wet							
Bromomethane	ND	0.010	mg/Kg wet							
2-Butanone (MEK)	ND	0.040	mg/Kg wet							



**QUALITY CONTROL**
**Volatile Organic Compounds by GC/MS - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B066916 - SW-846 5035</b>										
<b>Blank (B066916-BLK1)</b>				Prepared & Analyzed: 01/30/13						
n-Butylbenzene	ND	0.0020	mg/Kg wet							
sec-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butylbenzene	ND	0.0020	mg/Kg wet							
Carbon Disulfide	ND	0.0060	mg/Kg wet							
Carbon Tetrachloride	ND	0.0020	mg/Kg wet							
Chlorobenzene	ND	0.0020	mg/Kg wet							
Chlorodibromomethane	ND	0.0010	mg/Kg wet							
Chloroethane	ND	0.020	mg/Kg wet							
Chloroform	ND	0.0040	mg/Kg wet							
Chloromethane	ND	0.010	mg/Kg wet							
2-Chlorotoluene	ND	0.0020	mg/Kg wet							
4-Chlorotoluene	ND	0.0020	mg/Kg wet							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg wet							V-16
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet							
Dibromomethane	ND	0.0020	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet							
trans-1,4-Dichloro-2-butene	ND	0.0040	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.020	mg/Kg wet							
1,1-Dichloroethane	ND	0.0020	mg/Kg wet							
1,2-Dichloroethane	ND	0.0020	mg/Kg wet							
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
1,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,3-Dichloropropane	ND	0.0010	mg/Kg wet							
2,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,1-Dichloropropene	ND	0.0020	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
Ethylbenzene	ND	0.0020	mg/Kg wet							
Hexachlorobutadiene	ND	0.0020	mg/Kg wet							
2-Hexanone (MBK)	ND	0.020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet							
Methylene Chloride	ND	0.020	mg/Kg wet							
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet							
Naphthalene	ND	0.0040	mg/Kg wet							
n-Propylbenzene	ND	0.0020	mg/Kg wet							
Styrene	ND	0.0020	mg/Kg wet							
1,1,1,2-Tetrachloroethane	ND	0.0020	mg/Kg wet							
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg wet							
Tetrachloroethylene	ND	0.0020	mg/Kg wet							
Tetrahydrofuran	ND	0.010	mg/Kg wet							V-16
Toluene	ND	0.0020	mg/Kg wet							
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet							
1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet							
Trichloroethylene	ND	0.0020	mg/Kg wet							



**QUALITY CONTROL**
**Volatile Organic Compounds by GC/MS - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B066916 - SW-846 5035**
**Blank (B066916-BLK1)**

Prepared &amp; Analyzed: 01/30/13

Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet							
1,2,3-Trichloropropane	ND	0.0020	mg/Kg wet							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet							
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg wet							
Vinyl Chloride	ND	0.010	mg/Kg wet							
m+p Xylene	ND	0.0040	mg/Kg wet							
o-Xylene	ND	0.0020	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0537		mg/Kg wet	0.0500		107	70-130			
Surrogate: Toluene-d8	0.0502		mg/Kg wet	0.0500		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.0499		mg/Kg wet	0.0500		99.8	70-130			

**LCS (B066916-BS1)**

Prepared &amp; Analyzed: 01/30/13

Acetone	0.201	0.10	mg/Kg wet	0.200		100	70-130			
Acrylonitrile	0.0177	0.0060	mg/Kg wet	0.0200		88.4	70-130			V-16
Benzene	0.0200	0.0020	mg/Kg wet	0.0200		100	70-130			
Bromobenzene	0.0200	0.0020	mg/Kg wet	0.0200		100	70-130			
Bromodichloromethane	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130			
Bromoform	0.0194	0.0020	mg/Kg wet	0.0200		96.8	70-130			
Bromomethane	0.0239	0.010	mg/Kg wet	0.0200		119	70-130			
2-Butanone (MEK)	0.192	0.040	mg/Kg wet	0.200		96.2	70-130			
n-Butylbenzene	0.0221	0.0020	mg/Kg wet	0.0200		110	70-130			
sec-Butylbenzene	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130			
tert-Butylbenzene	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130			
Carbon Disulfide	0.196	0.0060	mg/Kg wet	0.200		97.8	70-130			
Carbon Tetrachloride	0.0222	0.0020	mg/Kg wet	0.0200		111	70-130			
Chlorobenzene	0.0195	0.0020	mg/Kg wet	0.0200		97.3	70-130			
Chlorodibromomethane	0.0209	0.0010	mg/Kg wet	0.0200		104	70-130			
Chloroethane	0.0184	0.020	mg/Kg wet	0.0200		91.8	70-130			
Chloroform	0.0212	0.0040	mg/Kg wet	0.0200		106	70-130			
Chloromethane	0.0149	0.010	mg/Kg wet	0.0200		74.6	70-130			
2-Chlorotoluene	0.0203	0.0020	mg/Kg wet	0.0200		101	70-130			
4-Chlorotoluene	0.0211	0.0020	mg/Kg wet	0.0200		106	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.0186	0.0020	mg/Kg wet	0.0200		92.8	70-130			V-16
1,2-Dibromoethane (EDB)	0.0198	0.0010	mg/Kg wet	0.0200		98.9	70-130			
Dibromomethane	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130			
1,2-Dichlorobenzene	0.0201	0.0020	mg/Kg wet	0.0200		100	70-130			
1,3-Dichlorobenzene	0.0199	0.0020	mg/Kg wet	0.0200		99.5	70-130			
1,4-Dichlorobenzene	0.0196	0.0020	mg/Kg wet	0.0200		98.1	70-130			
trans-1,4-Dichloro-2-butene	0.0198	0.0040	mg/Kg wet	0.0200		98.8	70-130			
Dichlorodifluoromethane (Freon 12)	0.0143	0.020	mg/Kg wet	0.0200		71.4	70-130			
1,1-Dichloroethane	0.0207	0.0020	mg/Kg wet	0.0200		104	70-130			
1,2-Dichloroethane	0.0213	0.0020	mg/Kg wet	0.0200		106	70-130			
1,1-Dichloroethylene	0.0184	0.0040	mg/Kg wet	0.0200		92.1	70-130			
cis-1,2-Dichloroethylene	0.0205	0.0020	mg/Kg wet	0.0200		102	70-130			
trans-1,2-Dichloroethylene	0.0203	0.0020	mg/Kg wet	0.0200		101	70-130			
1,2-Dichloropropane	0.0198	0.0020	mg/Kg wet	0.0200		99.2	70-130			
1,3-Dichloropropane	0.0197	0.0010	mg/Kg wet	0.0200		98.4	70-130			
2,2-Dichloropropane	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130			
1,1-Dichloropropene	0.0205	0.0020	mg/Kg wet	0.0200		102	70-130			
cis-1,3-Dichloropropene	0.0210	0.0010	mg/Kg wet	0.0200		105	70-130			
trans-1,3-Dichloropropene	0.0200	0.0010	mg/Kg wet	0.0200		99.9	70-130			



**QUALITY CONTROL**
**Volatile Organic Compounds by GC/MS - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B066916 - SW-846 5035</b>										
<b>LCS (B066916-BS1)</b>				Prepared & Analyzed: 01/30/13						
Ethylbenzene	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130			
Hexachlorobutadiene	0.0205	0.0020	mg/Kg wet	0.0200		102	70-130			
2-Hexanone (MBK)	0.205	0.020	mg/Kg wet	0.200		102	70-130			
Isopropylbenzene (Cumene)	0.0205	0.0020	mg/Kg wet	0.0200		102	70-130			
p-Isopropyltoluene (p-Cymene)	0.0209	0.0020	mg/Kg wet	0.0200		104	70-130			
Methyl tert-Butyl Ether (MTBE)	0.0191	0.0040	mg/Kg wet	0.0200		95.3	70-130			
Methylene Chloride	0.0192	0.020	mg/Kg wet	0.0200		96.1	70-130			
4-Methyl-2-pentanone (MIBK)	0.207	0.020	mg/Kg wet	0.200		103	70-130			
Naphthalene	0.0171	0.0040	mg/Kg wet	0.0200		85.7	70-130			
n-Propylbenzene	0.0207	0.0020	mg/Kg wet	0.0200		104	70-130			
Styrene	0.0201	0.0020	mg/Kg wet	0.0200		100	70-130			
1,1,1,2-Tetrachloroethane	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130			
1,1,2,2-Tetrachloroethane	0.0186	0.0010	mg/Kg wet	0.0200		93.0	70-130			
Tetrachloroethylene	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130			
Tetrahydrofuran	0.0168	0.010	mg/Kg wet	0.0200		83.8	70-130			V-16
Toluene	0.0195	0.0020	mg/Kg wet	0.0200		97.7	70-130			
1,2,3-Trichlorobenzene	0.0198	0.0020	mg/Kg wet	0.0200		98.8	70-130			
1,2,4-Trichlorobenzene	0.0189	0.0020	mg/Kg wet	0.0200		94.7	70-130			
1,1,1-Trichloroethane	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130			
1,1,2-Trichloroethane	0.0196	0.0020	mg/Kg wet	0.0200		97.8	70-130			
Trichloroethylene	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130			
Trichlorofluoromethane (Freon 11)	0.0187	0.010	mg/Kg wet	0.0200		93.4	70-130			
1,2,3-Trichloropropane	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0190	0.010	mg/Kg wet	0.0200		95.2	70-130			
1,2,4-Trimethylbenzene	0.0216	0.0020	mg/Kg wet	0.0200		108	70-130			
1,3,5-Trimethylbenzene	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130			
Vinyl Chloride	0.0165	0.010	mg/Kg wet	0.0200		82.7	70-130			
m+p Xylene	0.0419	0.0040	mg/Kg wet	0.0400		105	70-130			
o-Xylene	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0518		mg/Kg wet	0.0500		104	70-130			
Surrogate: Toluene-d8	0.0510		mg/Kg wet	0.0500		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.0513		mg/Kg wet	0.0500		103	70-130			



**QUALITY CONTROL**
**Semivolatile Organic Compounds by GC/MS - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B066731 - SW-846 3546</b>										
<b>Blank (B066731-BLK1)</b>										
Prepared: 01/25/13 Analyzed: 01/26/13										
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							V-05
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Surrogate: Nitrobenzene-d5	3.61		mg/Kg wet	3.33		108	30-130			
Surrogate: 2-Fluorobiphenyl	3.38		mg/Kg wet	3.33		102	30-130			
Surrogate: Terphenyl-d14	3.94		mg/Kg wet	3.33		118	30-130			
<b>LCS (B066731-BS1)</b>										
Prepared: 01/25/13 Analyzed: 01/26/13										
Acenaphthene	0.800	0.17	mg/Kg wet	1.67		48.0	40-140			
Acenaphthylene	0.796	0.17	mg/Kg wet	1.67		47.8	40-140			
Anthracene	0.838	0.17	mg/Kg wet	1.67		50.3	40-140			
Benzo(a)anthracene	0.847	0.17	mg/Kg wet	1.67		50.8	40-140			
Benzo(a)pyrene	0.859	0.17	mg/Kg wet	1.67		51.5	40-140			
Benzo(b)fluoranthene	0.876	0.17	mg/Kg wet	1.67		52.6	40-140			
Benzo(g,h,i)perylene	0.779	0.17	mg/Kg wet	1.67		46.7	40-140			V-05
Benzo(k)fluoranthene	0.883	0.17	mg/Kg wet	1.67		53.0	40-140			
Chrysene	0.806	0.17	mg/Kg wet	1.67		48.4	40-140			
Dibenz(a,h)anthracene	0.787	0.17	mg/Kg wet	1.67		47.2	40-140			
Fluoranthene	0.848	0.17	mg/Kg wet	1.67		50.9	40-140			
Fluorene	0.833	0.17	mg/Kg wet	1.67		50.0	40-140			
Indeno(1,2,3-cd)pyrene	0.805	0.17	mg/Kg wet	1.67		48.3	40-140			
2-Methylnaphthalene	0.773	0.17	mg/Kg wet	1.67		46.4	40-140			
Naphthalene	0.785	0.17	mg/Kg wet	1.67		47.1	40-140			
Phenanthrene	0.820	0.17	mg/Kg wet	1.67		49.2	40-140			
Pyrene	0.894	0.17	mg/Kg wet	1.67		53.6	40-140			
Surrogate: Nitrobenzene-d5	3.08		mg/Kg wet	3.33		92.4	30-130			
Surrogate: 2-Fluorobiphenyl	2.93		mg/Kg wet	3.33		87.9	30-130			
Surrogate: Terphenyl-d14	3.52		mg/Kg wet	3.33		106	30-130			



**QUALITY CONTROL**
**Semivolatile Organic Compounds by GC/MS - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B066731 - SW-846 3546**
**LCS Dup (B066731-BSD1)**

Prepared: 01/25/13 Analyzed: 01/26/13

Acenaphthene	0.805	0.17	mg/Kg wet	1.67		48.3	40-140	0.623	30	
Acenaphthylene	0.808	0.17	mg/Kg wet	1.67		48.5	40-140	1.45	30	
Anthracene	0.838	0.17	mg/Kg wet	1.67		50.3	40-140	0.0398	30	
Benzo(a)anthracene	0.838	0.17	mg/Kg wet	1.67		50.3	40-140	1.03	30	
Benzo(a)pyrene	0.837	0.17	mg/Kg wet	1.67		50.2	40-140	2.56	30	
Benzo(b)fluoranthene	0.789	0.17	mg/Kg wet	1.67		47.4	40-140	10.4	30	
Benzo(g,h,i)perylene	0.936	0.17	mg/Kg wet	1.67		56.2	40-140	18.3	30	V-05
Benzo(k)fluoranthene	0.771	0.17	mg/Kg wet	1.67		46.2	40-140	13.6	30	
Chrysene	0.789	0.17	mg/Kg wet	1.67		47.3	40-140	2.22	30	
Dibenz(a,h)anthracene	0.951	0.17	mg/Kg wet	1.67		57.1	40-140	18.9	30	
Fluoranthene	0.857	0.17	mg/Kg wet	1.67		51.4	40-140	1.13	30	
Fluorene	0.835	0.17	mg/Kg wet	1.67		50.1	40-140	0.320	30	
Indeno(1,2,3-cd)pyrene	0.970	0.17	mg/Kg wet	1.67		58.2	40-140	18.6	30	
2-Methylnaphthalene	0.765	0.17	mg/Kg wet	1.67		45.9	40-140	1.04	30	
Naphthalene	0.792	0.17	mg/Kg wet	1.67		47.5	40-140	0.846	30	
Phenanthrene	0.821	0.17	mg/Kg wet	1.67		49.3	40-140	0.163	30	
Pyrene	0.814	0.17	mg/Kg wet	1.67		48.9	40-140	9.29	30	
Surrogate: Nitrobenzene-d5	3.14		mg/Kg wet	3.33		94.3	30-130			
Surrogate: 2-Fluorobiphenyl	3.00		mg/Kg wet	3.33		90.0	30-130			
Surrogate: Terphenyl-d14	3.33		mg/Kg wet	3.33		100	30-130			

**Batch B066746 - SW-846 3510C**
**Blank (B066746-BLK1)**

Prepared &amp; Analyzed: 01/26/13

Acenaphthene (low)	ND	0.30	µg/L							
Acenaphthylene (low)	ND	0.30	µg/L							
Anthracene (low)	ND	0.20	µg/L							
Benzo(a)anthracene (low)	ND	0.050	µg/L							
Benzo(a)pyrene (low)	ND	0.10	µg/L							
Benzo(b)fluoranthene (low)	ND	0.050	µg/L							V-06
Benzo(g,h,i)perylene (low)	ND	0.50	µg/L							
Benzo(k)fluoranthene (low)	ND	0.20	µg/L							
Chrysene (low)	ND	0.20	µg/L							
Dibenz(a,h)anthracene (low)	ND	0.20	µg/L							
Fluoranthene (low)	ND	0.50	µg/L							
Fluorene (low)	ND	1.0	µg/L							
Indeno(1,2,3-cd)pyrene (low)	ND	0.20	µg/L							V-20
2-Methylnaphthalene (low)	ND	1.0	µg/L							
Naphthalene (low)	ND	1.0	µg/L							
Phenanthrene (low)	ND	0.050	µg/L							
Pyrene (low)	ND	1.0	µg/L							
Surrogate: Nitrobenzene-d5 (low)	81.5		µg/L	100		81.5	30-130			
Surrogate: 2-Fluorobiphenyl (low)	78.6		µg/L	100		78.6	30-130			
Surrogate: Terphenyl-d14 (low)	81.6		µg/L	100		81.6	30-130			



**QUALITY CONTROL**
**Semivolatile Organic Compounds by GC/MS - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B066746 - SW-846 3510C</b>										
<b>LCS (B066746-BS1)</b>				Prepared & Analyzed: 01/26/13						
Acenaphthene (low)	47.8	7.5	µg/L	50.0		95.5	40-140			
<b>Acenaphthylene (low)</b>	75.5	7.5	µg/L	50.0		<b>151</b> *	40-140			L-02
Anthracene (low)	48.5	5.0	µg/L	50.0		97.0	40-140			
Benzo(a)anthracene (low)	45.0	1.2	µg/L	50.0		90.0	40-140			
Benzo(a)pyrene (low)	53.2	2.5	µg/L	50.0		106	40-140			
Benzo(b)fluoranthene (low)	69.8	1.2	µg/L	50.0		140	40-140			V-06
Benzo(g,h,i)perylene (low)	58.5	12	µg/L	50.0		117	40-140			
Benzo(k)fluoranthene (low)	48.5	5.0	µg/L	50.0		97.0	40-140			
Chrysene (low)	43.2	5.0	µg/L	50.0		86.5	40-140			
Dibenz(a,h)anthracene (low)	60.2	5.0	µg/L	50.0		120	40-140			
Fluoranthene (low)	46.8	12	µg/L	50.0		93.5	40-140			
Fluorene (low)	44.5	25	µg/L	50.0		89.0	40-140			
Indeno(1,2,3-cd)pyrene (low)	69.8	5.0	µg/L	50.0		140	40-140			V-06
2-Methylnaphthalene (low)	43.8	25	µg/L	50.0		87.5	40-140			
Naphthalene (low)	38.8	25	µg/L	50.0		77.5	40-140			
Phenanthrene (low)	45.2	1.2	µg/L	50.0		90.5	40-140			
Pyrene (low)	45.0	25	µg/L	50.0		90.0	40-140			
Surrogate: Nitrobenzene-d5 (low)	85.5		µg/L	100		85.5	30-130			
Surrogate: 2-Fluorobiphenyl (low)	91.2		µg/L	100		91.2	30-130			
Surrogate: Terphenyl-d14 (low)	90.8		µg/L	100		90.8	30-130			
<b>LCS Dup (B066746-BSD1)</b>				Prepared & Analyzed: 01/26/13						
Acenaphthene (low)	45.0	7.5	µg/L	50.0		90.0	40-140	5.93	20	
<b>Acenaphthylene (low)</b>	71.2	7.5	µg/L	50.0		<b>142</b> *	40-140	5.79	20	L-02
Anthracene (low)	46.8	5.0	µg/L	50.0		93.5	40-140	3.67	20	
Benzo(a)anthracene (low)	44.5	1.2	µg/L	50.0		89.0	40-140	1.12	20	
Benzo(a)pyrene (low)	50.5	2.5	µg/L	50.0		101	40-140	5.30	20	
Benzo(b)fluoranthene (low)	66.5	1.2	µg/L	50.0		133	40-140	4.77	20	V-06
Benzo(g,h,i)perylene (low)	55.8	12	µg/L	50.0		112	40-140	4.81	20	
Benzo(k)fluoranthene (low)	46.2	5.0	µg/L	50.0		92.5	40-140	4.75	20	
Chrysene (low)	41.0	5.0	µg/L	50.0		82.0	40-140	5.34	20	
Dibenz(a,h)anthracene (low)	58.0	5.0	µg/L	50.0		116	40-140	3.81	20	
Fluoranthene (low)	47.5	12	µg/L	50.0		95.0	40-140	1.59	20	
Fluorene (low)	47.5	25	µg/L	50.0		95.0	40-140	6.52	20	
Indeno(1,2,3-cd)pyrene (low)	66.5	5.0	µg/L	50.0		133	40-140	4.77	50	V-06
2-Methylnaphthalene (low)	41.2	25	µg/L	50.0		82.5	40-140	5.88	20	
Naphthalene (low)	37.0	25	µg/L	50.0		74.0	40-140	4.62	20	
Phenanthrene (low)	44.0	1.2	µg/L	50.0		88.0	40-140	2.80	20	
Pyrene (low)	43.5	25	µg/L	50.0		87.0	40-140	3.39	20	
Surrogate: Nitrobenzene-d5 (low)	76.0		µg/L	100		76.0	30-130			
Surrogate: 2-Fluorobiphenyl (low)	82.0		µg/L	100		82.0	30-130			
Surrogate: Terphenyl-d14 (low)	82.2		µg/L	100		82.2	30-130			



**QUALITY CONTROL**
**Semivolatile Organic Compounds by GC/MS - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B066821 - SW-846 3546**
**Blank (B066821-BLK1)**

Prepared &amp; Analyzed: 01/29/13

Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Surrogate: Nitrobenzene-d5	2.77		mg/Kg wet	3.33		83.1	30-130			
Surrogate: 2-Fluorobiphenyl	3.00		mg/Kg wet	3.33		90.0	30-130			
Surrogate: Terphenyl-d14	3.66		mg/Kg wet	3.33		110	30-130			

**LCS (B066821-BS1)**

Prepared &amp; Analyzed: 01/29/13

Acenaphthene	1.51	0.17	mg/Kg wet	1.67		90.5	40-140			
Acenaphthylene	1.47	0.17	mg/Kg wet	1.67		88.4	40-140			
Anthracene	1.61	0.17	mg/Kg wet	1.67		96.4	40-140			
Benzo(a)anthracene	1.63	0.17	mg/Kg wet	1.67		97.9	40-140			
Benzo(a)pyrene	1.69	0.17	mg/Kg wet	1.67		101	40-140			
Benzo(b)fluoranthene	1.72	0.17	mg/Kg wet	1.67		103	40-140			
Benzo(g,h,i)perylene	1.43	0.17	mg/Kg wet	1.67		85.8	40-140			
Benzo(k)fluoranthene	1.68	0.17	mg/Kg wet	1.67		101	40-140			
Chrysene	1.72	0.17	mg/Kg wet	1.67		103	40-140			
Dibenz(a,h)anthracene	1.57	0.17	mg/Kg wet	1.67		94.1	40-140			
Fluoranthene	1.69	0.17	mg/Kg wet	1.67		102	40-140			
Fluorene	1.57	0.17	mg/Kg wet	1.67		94.1	40-140			
Indeno(1,2,3-cd)pyrene	1.54	0.17	mg/Kg wet	1.67		92.7	40-140			
2-Methylnaphthalene	1.49	0.17	mg/Kg wet	1.67		89.6	40-140			
Naphthalene	1.42	0.17	mg/Kg wet	1.67		85.4	40-140			
Phenanthrene	1.62	0.17	mg/Kg wet	1.67		97.0	40-140			
Pyrene	1.66	0.17	mg/Kg wet	1.67		99.3	40-140			
Surrogate: Nitrobenzene-d5	2.77		mg/Kg wet	3.33		83.2	30-130			
Surrogate: 2-Fluorobiphenyl	3.04		mg/Kg wet	3.33		91.3	30-130			
Surrogate: Terphenyl-d14	3.70		mg/Kg wet	3.33		111	30-130			



**QUALITY CONTROL**
**Semivolatile Organic Compounds by GC/MS - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B066821 - SW-846 3546**
**LCS Dup (B066821-BSD1)**

Prepared &amp; Analyzed: 01/29/13

Acenaphthene	1.65	0.17	mg/Kg wet	1.67		99.2	40-140	9.13	30	
Acenaphthylene	1.59	0.17	mg/Kg wet	1.67		95.6	40-140	7.87	30	
Anthracene	1.74	0.17	mg/Kg wet	1.67		105	40-140	8.22	30	
Benzo(a)anthracene	1.77	0.17	mg/Kg wet	1.67		106	40-140	7.89	30	
Benzo(a)pyrene	1.85	0.17	mg/Kg wet	1.67		111	40-140	9.21	30	
Benzo(b)fluoranthene	1.95	0.17	mg/Kg wet	1.67		117	40-140	12.1	30	
Benzo(g,h,i)perylene	1.33	0.17	mg/Kg wet	1.67		79.6	40-140	7.52	30	
Benzo(k)fluoranthene	1.86	0.17	mg/Kg wet	1.67		112	40-140	10.2	30	
Chrysene	1.85	0.17	mg/Kg wet	1.67		111	40-140	7.10	30	
Dibenz(a,h)anthracene	1.52	0.17	mg/Kg wet	1.67		90.9	40-140	3.46	30	
Fluoranthene	1.81	0.17	mg/Kg wet	1.67		109	40-140	6.62	30	
Fluorene	1.71	0.17	mg/Kg wet	1.67		103	40-140	8.86	30	
Indeno(1,2,3-cd)pyrene	1.46	0.17	mg/Kg wet	1.67		87.8	40-140	5.36	30	
2-Methylnaphthalene	1.60	0.17	mg/Kg wet	1.67		95.8	40-140	6.71	30	
Naphthalene	1.50	0.17	mg/Kg wet	1.67		90.2	40-140	5.38	30	
Phenanthrene	1.75	0.17	mg/Kg wet	1.67		105	40-140	8.07	30	
Pyrene	1.85	0.17	mg/Kg wet	1.67		111	40-140	11.0	30	
Surrogate: Nitrobenzene-d5	2.88		mg/Kg wet	3.33		86.3	30-130			
Surrogate: 2-Fluorobiphenyl	3.21		mg/Kg wet	3.33		96.4	30-130			
Surrogate: Terphenyl-d14	4.08		mg/Kg wet	3.33		123	30-130			

**Matrix Spike (B066821-MS1)**
**Source: 13A0643-16**

Prepared &amp; Analyzed: 01/29/13

Acenaphthene	1.87	0.21	mg/Kg dry	2.03	ND	92.1	40-140			
Acenaphthylene	1.99	0.21	mg/Kg dry	2.03	0.178	89.3	40-140			
Anthracene	2.04	0.21	mg/Kg dry	2.03	ND	101	40-140			
Benzo(a)anthracene	2.75	0.21	mg/Kg dry	2.03	0.635	104	40-140			
Benzo(a)pyrene	2.90	0.21	mg/Kg dry	2.03	0.790	104	40-140			
Benzo(b)fluoranthene	3.48	0.21	mg/Kg dry	2.03	1.20	112	40-140			
Benzo(g,h,i)perylene	1.66	0.21	mg/Kg dry	2.03	0.298	67.0	40-140			
Benzo(k)fluoranthene	2.51	0.21	mg/Kg dry	2.03	0.385	105	40-140			
Chrysene	3.05	0.21	mg/Kg dry	2.03	1.04	99.0	40-140			
Dibenz(a,h)anthracene	1.54	0.21	mg/Kg dry	2.03	0.184	67.1	40-140			
Fluoranthene	3.27	0.21	mg/Kg dry	2.03	1.25	100	40-140			
Fluorene	1.77	0.21	mg/Kg dry	2.03	ND	87.2	40-140			
Indeno(1,2,3-cd)pyrene	1.87	0.21	mg/Kg dry	2.03	0.446	70.0	40-140			
2-Methylnaphthalene	1.67	0.21	mg/Kg dry	2.03	ND	82.4	40-140			
Naphthalene	1.72	0.21	mg/Kg dry	2.03	ND	84.8	40-140			
Phenanthrene	3.02	0.21	mg/Kg dry	2.03	1.08	95.6	40-140			
Pyrene	2.66	0.21	mg/Kg dry	2.03	1.17	73.8	40-140			
Surrogate: Nitrobenzene-d5	3.77		mg/Kg dry	4.06		92.9	30-130			
Surrogate: 2-Fluorobiphenyl	3.96		mg/Kg dry	4.06		97.6	30-130			
Surrogate: Terphenyl-d14	2.94		mg/Kg dry	4.06		72.5	30-130			



**QUALITY CONTROL**
**Semivolatile Organic Compounds by GC/MS - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B066821 - SW-846 3546**

Matrix Spike Dup (B066821-MSD1)		Source: 13A0643-16		Prepared & Analyzed: 01/29/13						
Acenaphthene	1.92	0.21	mg/Kg dry	2.03	ND	94.6	40-140	2.61	30	
Acenaphthylene	2.10	0.21	mg/Kg dry	2.03	0.178	95.0	40-140	5.65	30	
Anthracene	2.12	0.21	mg/Kg dry	2.03	ND	104	40-140	3.45	30	
Benzo(a)anthracene	2.97	0.21	mg/Kg dry	2.03	0.635	115	40-140	7.70	30	
Benzo(a)pyrene	3.16	0.21	mg/Kg dry	2.03	0.790	117	40-140	8.62	30	
Benzo(b)fluoranthene	3.83	0.21	mg/Kg dry	2.03	1.20	130	40-140	9.67	30	
Benzo(g,h,i)perylene	1.64	0.21	mg/Kg dry	2.03	0.298	66.1	40-140	1.18	30	
Benzo(k)fluoranthene	2.64	0.21	mg/Kg dry	2.03	0.385	111	40-140	5.02	30	
Chrysene	3.33	0.21	mg/Kg dry	2.03	1.04	113	40-140	8.88	30	
Dibenz(a,h)anthracene	1.48	0.21	mg/Kg dry	2.03	0.184	64.1	40-140	3.94	30	
Fluoranthene	3.51	0.21	mg/Kg dry	2.03	1.25	112	40-140	6.92	30	
Fluorene	1.83	0.21	mg/Kg dry	2.03	ND	90.3	40-140	3.49	30	
Indeno(1,2,3-cd)pyrene	1.90	0.21	mg/Kg dry	2.03	0.446	71.7	40-140	1.83	30	
2-Methylnaphthalene	1.73	0.21	mg/Kg dry	2.03	ND	85.2	40-140	3.27	30	
Naphthalene	1.79	0.21	mg/Kg dry	2.03	ND	88.5	40-140	4.22	30	
Phenanthrene	3.46	0.21	mg/Kg dry	2.03	1.08	117	40-140	13.6	30	
Pyrene	2.77	0.21	mg/Kg dry	2.03	1.17	79.3	40-140	4.12	30	
Surrogate: Nitrobenzene-d5	3.92		mg/Kg dry	4.06		96.7	30-130			
Surrogate: 2-Fluorobiphenyl	4.15		mg/Kg dry	4.06		102	30-130			
Surrogate: Terphenyl-d14	2.75		mg/Kg dry	4.06		67.8	30-130			

**Batch B066884 - SW-846 3546**

Blank (B066884-BLK1)		Prepared: 01/29/13 Analyzed: 01/30/13								
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Surrogate: Nitrobenzene-d5	2.95		mg/Kg wet	3.33		88.5	30-130			
Surrogate: 2-Fluorobiphenyl	2.99		mg/Kg wet	3.33		89.8	30-130			
Surrogate: Terphenyl-d14	3.94		mg/Kg wet	3.33		118	30-130			



**QUALITY CONTROL**
**Semivolatile Organic Compounds by GC/MS - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B066884 - SW-846 3546**
**LCS (B066884-BS1)**

Prepared: 01/29/13 Analyzed: 01/30/13

Acenaphthene	1.55	0.17	mg/Kg wet	1.67		92.9	40-140			
Acenaphthylene	1.55	0.17	mg/Kg wet	1.67		93.0	40-140			
Anthracene	1.66	0.17	mg/Kg wet	1.67		99.8	40-140			
Benzo(a)anthracene	1.74	0.17	mg/Kg wet	1.67		104	40-140			
Benzo(a)pyrene	1.70	0.17	mg/Kg wet	1.67		102	40-140			
Benzo(b)fluoranthene	1.64	0.17	mg/Kg wet	1.67		98.1	40-140			
Benzo(g,h,i)perylene	1.72	0.17	mg/Kg wet	1.67		103	40-140			
Benzo(k)fluoranthene	1.53	0.17	mg/Kg wet	1.67		92.0	40-140			
Chrysene	1.63	0.17	mg/Kg wet	1.67		97.6	40-140			
Dibenz(a,h)anthracene	1.80	0.17	mg/Kg wet	1.67		108	40-140			
Fluoranthene	1.53	0.17	mg/Kg wet	1.67		92.0	40-140			
Fluorene	1.66	0.17	mg/Kg wet	1.67		99.3	40-140			
Indeno(1,2,3-cd)pyrene	1.84	0.17	mg/Kg wet	1.67		110	40-140			
2-Methylnaphthalene	1.51	0.17	mg/Kg wet	1.67		90.6	40-140			
Naphthalene	1.44	0.17	mg/Kg wet	1.67		86.4	40-140			
Phenanthrene	1.63	0.17	mg/Kg wet	1.67		97.9	40-140			
Pyrene	1.86	0.17	mg/Kg wet	1.67		112	40-140			
Surrogate: Nitrobenzene-d5	3.10		mg/Kg wet	3.33		92.9	30-130			
Surrogate: 2-Fluorobiphenyl	3.05		mg/Kg wet	3.33		91.4	30-130			
Surrogate: Terphenyl-d14	4.10		mg/Kg wet	3.33		123	30-130			

**LCS Dup (B066884-BS1)**

Prepared: 01/29/13 Analyzed: 01/30/13

Acenaphthene	1.61	0.17	mg/Kg wet	1.67		96.4	40-140	3.72	30	
Acenaphthylene	1.63	0.17	mg/Kg wet	1.67		98.0	40-140	5.22	30	
Anthracene	1.70	0.17	mg/Kg wet	1.67		102	40-140	2.20	30	
Benzo(a)anthracene	1.76	0.17	mg/Kg wet	1.67		106	40-140	1.46	30	
Benzo(a)pyrene	1.77	0.17	mg/Kg wet	1.67		106	40-140	3.76	30	
Benzo(b)fluoranthene	1.63	0.17	mg/Kg wet	1.67		97.9	40-140	0.224	30	
Benzo(g,h,i)perylene	1.84	0.17	mg/Kg wet	1.67		110	40-140	6.88	30	
Benzo(k)fluoranthene	1.60	0.17	mg/Kg wet	1.67		96.1	40-140	4.40	30	
Chrysene	1.64	0.17	mg/Kg wet	1.67		98.3	40-140	0.776	30	
Dibenz(a,h)anthracene	1.93	0.17	mg/Kg wet	1.67		116	40-140	6.91	30	
Fluoranthene	1.60	0.17	mg/Kg wet	1.67		96.0	40-140	4.17	30	
Fluorene	1.71	0.17	mg/Kg wet	1.67		103	40-140	3.33	30	
Indeno(1,2,3-cd)pyrene	1.95	0.17	mg/Kg wet	1.67		117	40-140	6.11	30	
2-Methylnaphthalene	1.50	0.17	mg/Kg wet	1.67		89.9	40-140	0.731	30	
Naphthalene	1.51	0.17	mg/Kg wet	1.67		90.7	40-140	4.85	30	
Phenanthrene	1.68	0.17	mg/Kg wet	1.67		101	40-140	3.04	30	
Pyrene	1.95	0.17	mg/Kg wet	1.67		117	40-140	4.49	30	
Surrogate: Nitrobenzene-d5	3.12		mg/Kg wet	3.33		93.5	30-130			
Surrogate: 2-Fluorobiphenyl	3.22		mg/Kg wet	3.33		96.6	30-130			
Surrogate: Terphenyl-d14	4.08		mg/Kg wet	3.33		123	30-130			



**QUALITY CONTROL**
**Organochloride Pesticides by GC/ECD - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B066713 - SW-846 3546</b>										
<b>Blank (B066713-BLK1)</b>				Prepared: 01/25/13 Analyzed: 01/28/13						
Alachlor	ND	0.020	mg/Kg wet							
Alachlor [2C]	ND	0.020	mg/Kg wet							
Aldrin	ND	0.0050	mg/Kg wet							
Aldrin [2C]	ND	0.0050	mg/Kg wet							
alpha-BHC	ND	0.0050	mg/Kg wet							
alpha-BHC [2C]	ND	0.0050	mg/Kg wet							
beta-BHC	ND	0.0050	mg/Kg wet							
beta-BHC [2C]	ND	0.0050	mg/Kg wet							
delta-BHC	ND	0.0050	mg/Kg wet							
delta-BHC [2C]	ND	0.0050	mg/Kg wet							
gamma-BHC (Lindane)	ND	0.0020	mg/Kg wet							
gamma-BHC (Lindane) [2C]	ND	0.0020	mg/Kg wet							
Chlordane	ND	0.020	mg/Kg wet							
Chlordane [2C]	ND	0.020	mg/Kg wet							
4,4'-DDD	ND	0.0040	mg/Kg wet							
4,4'-DDD [2C]	ND	0.0040	mg/Kg wet							
4,4'-DDE	ND	0.0040	mg/Kg wet							
4,4'-DDE [2C]	ND	0.0040	mg/Kg wet							
4,4'-DDT	ND	0.0040	mg/Kg wet							
4,4'-DDT [2C]	ND	0.0040	mg/Kg wet							
Dieldrin	ND	0.0040	mg/Kg wet							
Dieldrin [2C]	ND	0.0040	mg/Kg wet							
Endosulfan I	ND	0.0050	mg/Kg wet							
Endosulfan I [2C]	ND	0.0050	mg/Kg wet							
Endosulfan II	ND	0.0080	mg/Kg wet							
Endosulfan II [2C]	ND	0.0080	mg/Kg wet							
Endosulfan Sulfate	ND	0.0080	mg/Kg wet							
Endosulfan Sulfate [2C]	ND	0.0080	mg/Kg wet							
Endrin	ND	0.0080	mg/Kg wet							
Endrin [2C]	ND	0.0080	mg/Kg wet							
Endrin Aldehyde	ND	0.0080	mg/Kg wet							
Endrin Aldehyde [2C]	ND	0.0080	mg/Kg wet							
Endrin Ketone	ND	0.0080	mg/Kg wet							
Endrin Ketone [2C]	ND	0.0080	mg/Kg wet							
Heptachlor	ND	0.0050	mg/Kg wet							
Heptachlor [2C]	ND	0.0050	mg/Kg wet							
Heptachlor Epoxide	ND	0.0050	mg/Kg wet							
Heptachlor Epoxide [2C]	ND	0.0050	mg/Kg wet							
Hexachlorobenzene	ND	0.0060	mg/Kg wet							
Hexachlorobenzene [2C]	ND	0.0060	mg/Kg wet							
Methoxychlor	ND	0.050	mg/Kg wet							
Methoxychlor [2C]	ND	0.050	mg/Kg wet							
Toxaphene	ND	0.10	mg/Kg wet							
Toxaphene [2C]	ND	0.10	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.195		mg/Kg wet	0.200		97.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.176		mg/Kg wet	0.200		88.1	30-150			
Surrogate: Tetrachloro-m-xylene	0.185		mg/Kg wet	0.200		92.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.175		mg/Kg wet	0.200		87.3	30-150			



**QUALITY CONTROL**
**Organochloride Pesticides by GC/ECD - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B066713 - SW-846 3546</b>										
<b>LCS (B066713-BS1)</b>				Prepared: 01/25/13 Analyzed: 01/28/13						
Alachlor	0.019	0.020	mg/Kg wet	0.0200		97.1	40-140			
Alachlor [2C]	0.019	0.020	mg/Kg wet	0.0200		96.9	40-140			
Aldrin	0.019	0.0050	mg/Kg wet	0.0200		97.1	40-140			
Aldrin [2C]	0.019	0.0050	mg/Kg wet	0.0200		92.7	40-140			
alpha-BHC	0.018	0.0050	mg/Kg wet	0.0200		91.6	40-140			
alpha-BHC [2C]	0.018	0.0050	mg/Kg wet	0.0200		87.9	40-140			
beta-BHC	0.019	0.0050	mg/Kg wet	0.0200		93.3	40-140			
beta-BHC [2C]	0.018	0.0050	mg/Kg wet	0.0200		90.3	40-140			
delta-BHC	0.018	0.0050	mg/Kg wet	0.0200		90.4	40-140			
delta-BHC [2C]	0.017	0.0050	mg/Kg wet	0.0200		86.3	40-140			
gamma-BHC (Lindane)	0.018	0.0020	mg/Kg wet	0.0200		88.5	40-140			
gamma-BHC (Lindane) [2C]	0.017	0.0020	mg/Kg wet	0.0200		87.1	40-140			
4,4'-DDD	0.020	0.0040	mg/Kg wet	0.0200		97.5	40-140			
4,4'-DDD [2C]	0.018	0.0040	mg/Kg wet	0.0200		92.0	40-140			
4,4'-DDE	0.019	0.0040	mg/Kg wet	0.0200		97.2	40-140			
4,4'-DDE [2C]	0.019	0.0040	mg/Kg wet	0.0200		93.2	40-140			
4,4'-DDT	0.019	0.0040	mg/Kg wet	0.0200		94.0	40-140			
4,4'-DDT [2C]	0.018	0.0040	mg/Kg wet	0.0200		88.5	40-140			
Dieldrin	0.020	0.0040	mg/Kg wet	0.0200		98.5	40-140			
Dieldrin [2C]	0.018	0.0040	mg/Kg wet	0.0200		91.1	40-140			
Endosulfan I	0.019	0.0050	mg/Kg wet	0.0200		97.1	40-140			
Endosulfan I [2C]	0.018	0.0050	mg/Kg wet	0.0200		92.0	40-140			
Endosulfan II	0.019	0.0080	mg/Kg wet	0.0200		96.7	40-140			
Endosulfan II [2C]	0.019	0.0080	mg/Kg wet	0.0200		92.6	40-140			
Endosulfan Sulfate	0.019	0.0080	mg/Kg wet	0.0200		97.3	40-140			
Endosulfan Sulfate [2C]	0.019	0.0080	mg/Kg wet	0.0200		92.8	40-140			
Endrin	0.019	0.0080	mg/Kg wet	0.0200		97.4	40-140			
Endrin [2C]	0.019	0.0080	mg/Kg wet	0.0200		92.5	40-140			
Endrin Aldehyde	0.017	0.0080	mg/Kg wet	0.0200		83.7	40-140			
Endrin Aldehyde [2C]	0.016	0.0080	mg/Kg wet	0.0200		77.9	40-140			
Endrin Ketone	0.020	0.0080	mg/Kg wet	0.0200		98.4	40-140			
Endrin Ketone [2C]	0.018	0.0080	mg/Kg wet	0.0200		92.2	40-140			
Heptachlor	0.019	0.0050	mg/Kg wet	0.0200		96.9	40-140			
Heptachlor [2C]	0.018	0.0050	mg/Kg wet	0.0200		92.1	40-140			
Heptachlor Epoxide	0.019	0.0050	mg/Kg wet	0.0200		96.2	40-140			
Heptachlor Epoxide [2C]	0.018	0.0050	mg/Kg wet	0.0200		90.2	40-140			
Hexachlorobenzene	0.020	0.0060	mg/Kg wet	0.0200		101	40-140			
Hexachlorobenzene [2C]	0.018	0.0060	mg/Kg wet	0.0200		90.6	40-140			
Methoxychlor	0.020	0.050	mg/Kg wet	0.0200		97.9	40-140			
Methoxychlor [2C]	0.018	0.050	mg/Kg wet	0.0200		91.8	40-140			
Surrogate: Decachlorobiphenyl	0.203		mg/Kg wet	0.200		101	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.183		mg/Kg wet	0.200		91.7	30-150			
Surrogate: Tetrachloro-m-xylene	0.194		mg/Kg wet	0.200		97.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.184		mg/Kg wet	0.200		91.8	30-150			



**QUALITY CONTROL**
**Organochloride Pesticides by GC/ECD - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B066713 - SW-846 3546</b>										
<b>LCS Dup (B066713-BSD1)</b>					Prepared: 01/25/13 Analyzed: 01/28/13					
Alachlor	0.019	0.020	mg/Kg wet	0.0200		96.2	40-140	0.915	30	
Alachlor [2C]	0.020	0.020	mg/Kg wet	0.0200		98.8	40-140	1.95	30	
Aldrin	0.020	0.0050	mg/Kg wet	0.0200		97.6	40-140	0.509	30	
Aldrin [2C]	0.019	0.0050	mg/Kg wet	0.0200		93.4	40-140	0.774	30	
alpha-BHC	0.018	0.0050	mg/Kg wet	0.0200		92.4	40-140	0.847	30	
alpha-BHC [2C]	0.018	0.0050	mg/Kg wet	0.0200		88.4	40-140	0.664	30	
beta-BHC	0.019	0.0050	mg/Kg wet	0.0200		95.9	40-140	2.74	30	
beta-BHC [2C]	0.018	0.0050	mg/Kg wet	0.0200		91.2	40-140	0.953	30	
delta-BHC	0.019	0.0050	mg/Kg wet	0.0200		94.5	40-140	4.48	30	
delta-BHC [2C]	0.018	0.0050	mg/Kg wet	0.0200		88.7	40-140	2.77	30	
gamma-BHC (Lindane)	0.018	0.0020	mg/Kg wet	0.0200		88.8	40-140	0.434	30	
gamma-BHC (Lindane) [2C]	0.018	0.0020	mg/Kg wet	0.0200		88.3	40-140	1.33	30	
4,4'-DDD	0.020	0.0040	mg/Kg wet	0.0200		98.7	40-140	1.21	30	
4,4'-DDD [2C]	0.019	0.0040	mg/Kg wet	0.0200		93.4	40-140	1.54	30	
4,4'-DDE	0.019	0.0040	mg/Kg wet	0.0200		97.3	40-140	0.108	30	
4,4'-DDE [2C]	0.019	0.0040	mg/Kg wet	0.0200		93.8	40-140	0.594	30	
4,4'-DDT	0.019	0.0040	mg/Kg wet	0.0200		95.1	40-140	1.13	30	
4,4'-DDT [2C]	0.018	0.0040	mg/Kg wet	0.0200		90.1	40-140	1.79	30	
Dieldrin	0.020	0.0040	mg/Kg wet	0.0200		99.1	40-140	0.577	30	
Dieldrin [2C]	0.018	0.0040	mg/Kg wet	0.0200		92.4	40-140	1.39	30	
Endosulfan I	0.020	0.0050	mg/Kg wet	0.0200		97.5	40-140	0.391	30	
Endosulfan I [2C]	0.019	0.0050	mg/Kg wet	0.0200		92.9	40-140	0.979	30	
Endosulfan II	0.019	0.0080	mg/Kg wet	0.0200		97.3	40-140	0.655	30	
Endosulfan II [2C]	0.019	0.0080	mg/Kg wet	0.0200		93.8	40-140	1.22	30	
Endosulfan Sulfate	0.020	0.0080	mg/Kg wet	0.0200		97.9	40-140	0.676	30	
Endosulfan Sulfate [2C]	0.019	0.0080	mg/Kg wet	0.0200		93.9	40-140	1.18	30	
Endrin	0.020	0.0080	mg/Kg wet	0.0200		98.4	40-140	0.965	30	
Endrin [2C]	0.019	0.0080	mg/Kg wet	0.0200		93.8	40-140	1.43	30	
Endrin Aldehyde	0.017	0.0080	mg/Kg wet	0.0200		84.3	40-140	0.649	30	
Endrin Aldehyde [2C]	0.016	0.0080	mg/Kg wet	0.0200		78.9	40-140	1.29	30	
Endrin Ketone	0.020	0.0080	mg/Kg wet	0.0200		98.9	40-140	0.487	30	
Endrin Ketone [2C]	0.019	0.0080	mg/Kg wet	0.0200		93.6	40-140	1.57	30	
Heptachlor	0.019	0.0050	mg/Kg wet	0.0200		97.1	40-140	0.258	30	
Heptachlor [2C]	0.019	0.0050	mg/Kg wet	0.0200		93.2	40-140	1.15	30	
Heptachlor Epoxide	0.019	0.0050	mg/Kg wet	0.0200		96.8	40-140	0.627	30	
Heptachlor Epoxide [2C]	0.018	0.0050	mg/Kg wet	0.0200		91.4	40-140	1.30	30	
Hexachlorobenzene	0.021	0.0060	mg/Kg wet	0.0200		105	40-140	4.20	30	
Hexachlorobenzene [2C]	0.019	0.0060	mg/Kg wet	0.0200		95.3	40-140	5.11	30	
Methoxychlor	0.020	0.050	mg/Kg wet	0.0200		99.3	40-140	1.44	30	
Methoxychlor [2C]	0.019	0.050	mg/Kg wet	0.0200		93.7	40-140	2.04	30	
Surrogate: Decachlorobiphenyl	0.202		mg/Kg wet	0.200		101	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.184		mg/Kg wet	0.200		91.8	30-150			
Surrogate: Tetrachloro-m-xylene	0.192		mg/Kg wet	0.200		96.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.182		mg/Kg wet	0.200		90.9	30-150			



**QUALITY CONTROL**
**Organochloride Pesticides by GC/ECD - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B066713 - SW-846 3546</b>										
<b>Matrix Spike (B066713-MS1)</b>	<b>Source: 13A0643-02</b>			Prepared: 01/25/13 Analyzed: 01/28/13						
Alachlor	0.016	0.026	mg/Kg dry	0.0257	ND	61.1	30-150			
Alachlor [2C]	0.021	0.026	mg/Kg dry	0.0257	ND	80.3	30-150			
Aldrin	0.014	0.0064	mg/Kg dry	0.0257	ND	55.3	30-150			
Aldrin [2C]	0.013	0.0064	mg/Kg dry	0.0257	ND	51.3	30-150			
alpha-BHC	0.013	0.0064	mg/Kg dry	0.0257	ND	52.1	30-150			
alpha-BHC [2C]	0.012	0.0064	mg/Kg dry	0.0257	ND	46.0	30-150			
beta-BHC	0.017	0.0064	mg/Kg dry	0.0257	ND	64.9	30-150			
beta-BHC [2C]	0.014	0.0064	mg/Kg dry	0.0257	ND	55.1	30-150			
delta-BHC	0.016	0.0064	mg/Kg dry	0.0257	ND	61.1	30-150			
delta-BHC [2C]	0.015	0.0064	mg/Kg dry	0.0257	ND	60.1	30-150			
gamma-BHC (Lindane)	0.012	0.0026	mg/Kg dry	0.0257	ND	48.1	30-150			
gamma-BHC (Lindane) [2C]	0.013	0.0026	mg/Kg dry	0.0257	ND	51.3	30-150			
4,4'-DDD	0.021	0.0051	mg/Kg dry	0.0257	ND	81.6	30-150			
4,4'-DDD [2C]	0.015	0.0051	mg/Kg dry	0.0257	ND	56.9	30-150			
4,4'-DDE	0.015	0.0051	mg/Kg dry	0.0257	ND	60.0	30-150			
4,4'-DDE [2C]	0.017	0.0051	mg/Kg dry	0.0257	ND	66.3	30-150			
4,4'-DDT	0.015	0.0051	mg/Kg dry	0.0257	ND	58.3	30-150			
4,4'-DDT [2C]	0.016	0.0051	mg/Kg dry	0.0257	ND	63.0	30-150			
Dieldrin	0.015	0.0051	mg/Kg dry	0.0257	ND	58.0	30-150			
Dieldrin [2C]	0.017	0.0051	mg/Kg dry	0.0257	ND	67.3	30-150			
Endosulfan I	0.023	0.0064	mg/Kg dry	0.0257	ND	89.2	30-150			
Endosulfan I [2C]	0.015	0.0064	mg/Kg dry	0.0257	ND	58.2	30-150			
Endosulfan II	0.014	0.010	mg/Kg dry	0.0257	ND	53.1	30-150			
Endosulfan II [2C]	0.017	0.010	mg/Kg dry	0.0257	ND	67.8	30-150			
Endosulfan Sulfate	0.013	0.010	mg/Kg dry	0.0257	ND	48.9	30-150			
Endosulfan Sulfate [2C]	0.013	0.010	mg/Kg dry	0.0257	ND	49.5	30-150			
Endrin	0.014	0.010	mg/Kg dry	0.0257	ND	53.0	30-150			
Endrin [2C]	0.017	0.010	mg/Kg dry	0.0257	ND	64.3	30-150			
Endrin Aldehyde	0.011	0.010	mg/Kg dry	0.0257	ND	41.6	30-150			
Endrin Aldehyde [2C]	0.021	0.010	mg/Kg dry	0.0257	ND	80.0	30-150			
Endrin Ketone	0.015	0.010	mg/Kg dry	0.0257	ND	58.5	30-150			
Endrin Ketone [2C]	0.015	0.010	mg/Kg dry	0.0257	ND	58.6	30-150			
Heptachlor	0.013	0.0064	mg/Kg dry	0.0257	ND	52.6	30-150			
Heptachlor [2C]	0.015	0.0064	mg/Kg dry	0.0257	ND	57.4	30-150			
<b>Heptachlor Epoxide</b>	0.045	0.0064	mg/Kg dry	0.0257	0.039	<b>21.9</b> *	30-150			MS-07A
<b>Heptachlor Epoxide [2C]</b>	0.044	0.0064	mg/Kg dry	0.0257	0.039	<b>21.7</b> *	30-150			MS-07A
Hexachlorobenzene	0.017	0.0077	mg/Kg dry	0.0257	ND	66.1	30-150			R-06
Hexachlorobenzene [2C]	0.014	0.0077	mg/Kg dry	0.0257	ND	53.7	30-150			R-06
Methoxychlor	0.017	0.064	mg/Kg dry	0.0257	ND	67.3	30-150			
Methoxychlor [2C]	0.020	0.064	mg/Kg dry	0.0257	ND	76.4	30-150			
Surrogate: Decachlorobiphenyl	0.110		mg/Kg dry	0.257		42.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.141		mg/Kg dry	0.257		54.8	30-150			
Surrogate: Tetrachloro-m-xylene	0.142		mg/Kg dry	0.257		55.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.139		mg/Kg dry	0.257		54.3	30-150			



**QUALITY CONTROL**
**Organochloride Pesticides by GC/ECD - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B066713 - SW-846 3546</b>										
<b>Matrix Spike Dup (B066713-MSD1)</b>	<b>Source: 13A0643-02</b>			Prepared: 01/25/13 Analyzed: 01/28/13						
Alachlor	0.018	0.026	mg/Kg dry	0.0259	ND	70.0	30-150	14.5	30	
Alachlor [2C]	0.022	0.026	mg/Kg dry	0.0259	ND	83.7	30-150	5.14	30	
Aldrin	0.016	0.0065	mg/Kg dry	0.0259	ND	59.8	30-150	8.75	30	
Aldrin [2C]	0.015	0.0065	mg/Kg dry	0.0259	ND	57.0	30-150	11.4	30	
alpha-BHC	0.016	0.0065	mg/Kg dry	0.0259	ND	60.8	30-150	16.4	30	
alpha-BHC [2C]	0.014	0.0065	mg/Kg dry	0.0259	ND	54.2	30-150	17.3	30	
beta-BHC	0.021	0.0065	mg/Kg dry	0.0259	ND	81.6	30-150	23.8	30	
beta-BHC [2C]	0.016	0.0065	mg/Kg dry	0.0259	ND	61.9	30-150	12.6	30	
delta-BHC	0.017	0.0065	mg/Kg dry	0.0259	ND	67.1	30-150	10.2	30	
delta-BHC [2C]	0.019	0.0065	mg/Kg dry	0.0259	ND	72.3	30-150	19.4	30	
gamma-BHC (Lindane)	0.014	0.0026	mg/Kg dry	0.0259	ND	54.2	30-150	12.8	30	
gamma-BHC (Lindane) [2C]	0.015	0.0026	mg/Kg dry	0.0259	ND	56.8	30-150	11.0	30	
4,4'-DDD	0.022	0.0052	mg/Kg dry	0.0259	ND	86.4	30-150	6.65	30	
4,4'-DDD [2C]	0.015	0.0052	mg/Kg dry	0.0259	ND	58.9	30-150	4.31	30	
4,4'-DDE	0.015	0.0052	mg/Kg dry	0.0259	ND	59.4	30-150	0.0892	30	
4,4'-DDE [2C]	0.018	0.0052	mg/Kg dry	0.0259	ND	70.1	30-150	6.48	30	
4,4'-DDT	0.016	0.0052	mg/Kg dry	0.0259	ND	61.4	30-150	6.12	30	
4,4'-DDT [2C]	0.017	0.0052	mg/Kg dry	0.0259	ND	67.2	30-150	7.52	30	
Dieldrin	0.016	0.0052	mg/Kg dry	0.0259	ND	60.4	30-150	4.98	30	
Dieldrin [2C]	0.021	0.0052	mg/Kg dry	0.0259	ND	79.6	30-150	17.7	30	
Endosulfan I	0.028	0.0065	mg/Kg dry	0.0259	ND	109	30-150	20.9	30	
Endosulfan I [2C]	0.016	0.0065	mg/Kg dry	0.0259	ND	60.6	30-150	4.99	30	
Endosulfan II	0.015	0.010	mg/Kg dry	0.0259	ND	58.3	30-150	10.3	30	
Endosulfan II [2C]	0.019	0.010	mg/Kg dry	0.0259	ND	73.8	30-150	9.51	30	
Endosulfan Sulfate	0.014	0.010	mg/Kg dry	0.0259	ND	54.2	30-150	11.1	30	
Endosulfan Sulfate [2C]	0.015	0.010	mg/Kg dry	0.0259	ND	58.7	30-150	18.0	30	
Endrin	0.016	0.010	mg/Kg dry	0.0259	ND	61.6	30-150	15.9	30	
Endrin [2C]	0.018	0.010	mg/Kg dry	0.0259	ND	67.9	30-150	6.35	30	
Endrin Aldehyde	0.012	0.010	mg/Kg dry	0.0259	ND	47.1	30-150	13.4	30	
Endrin Aldehyde [2C]	0.023	0.010	mg/Kg dry	0.0259	ND	88.9	30-150	11.6	30	
Endrin Ketone	0.017	0.010	mg/Kg dry	0.0259	ND	65.6	30-150	12.3	30	
Endrin Ketone [2C]	0.017	0.010	mg/Kg dry	0.0259	ND	65.8	30-150	12.6	30	
Heptachlor	0.015	0.0065	mg/Kg dry	0.0259	ND	58.7	30-150	12.0	30	
Heptachlor [2C]	0.016	0.0065	mg/Kg dry	0.0259	ND	61.7	30-150	8.22	30	
<b>Heptachlor Epoxide</b>	0.046	0.0065	mg/Kg dry	0.0259	0.039	<b>26.6</b> *	30-150	2.79	30	MS-07A
<b>Heptachlor Epoxide [2C]</b>	0.046	0.0065	mg/Kg dry	0.0259	0.039	<b>27.2</b> *	30-150	3.29	30	MS-07A
Hexachlorobenzene	0.024	0.0078	mg/Kg dry	0.0259	ND	92.3	30-150	<b>34.0</b> *	30	R-06
Hexachlorobenzene [2C]	0.020	0.0078	mg/Kg dry	0.0259	ND	76.8	30-150	<b>36.3</b> *	30	R-06
Methoxychlor	0.020	0.065	mg/Kg dry	0.0259	ND	79.0	30-150	17.0	30	
Methoxychlor [2C]	0.021	0.065	mg/Kg dry	0.0259	ND	81.0	30-150	6.76	30	
Surrogate: Decachlorobiphenyl	0.119		mg/Kg dry	0.259		45.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.150		mg/Kg dry	0.259		58.1	30-150			
Surrogate: Tetrachloro-m-xylene	0.168		mg/Kg dry	0.259		64.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.163		mg/Kg dry	0.259		62.8	30-150			



**QUALITY CONTROL**
**Organochloride Pesticides by GC/ECD - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B066768 - SW-846 3546**
**Blank (B066768-BLK1)**

Prepared: 01/28/13 Analyzed: 01/30/13

Alachlor	ND	0.020	mg/Kg wet							
Alachlor [2C]	ND	0.020	mg/Kg wet							
Aldrin	ND	0.0050	mg/Kg wet							
Aldrin [2C]	ND	0.0050	mg/Kg wet							
alpha-BHC	ND	0.0050	mg/Kg wet							
alpha-BHC [2C]	ND	0.0050	mg/Kg wet							
beta-BHC	ND	0.0050	mg/Kg wet							
beta-BHC [2C]	ND	0.0050	mg/Kg wet							
delta-BHC	ND	0.0050	mg/Kg wet							
delta-BHC [2C]	ND	0.0050	mg/Kg wet							
gamma-BHC (Lindane)	ND	0.0020	mg/Kg wet							
gamma-BHC (Lindane) [2C]	ND	0.0020	mg/Kg wet							
Chlordane	ND	0.020	mg/Kg wet							
Chlordane [2C]	ND	0.020	mg/Kg wet							
4,4'-DDD	ND	0.0040	mg/Kg wet							
4,4'-DDD [2C]	ND	0.0040	mg/Kg wet							
4,4'-DDE	ND	0.0040	mg/Kg wet							
4,4'-DDE [2C]	ND	0.0040	mg/Kg wet							
4,4'-DDT	ND	0.0040	mg/Kg wet							
4,4'-DDT [2C]	ND	0.0040	mg/Kg wet							
Dieldrin	ND	0.0040	mg/Kg wet							
Dieldrin [2C]	ND	0.0040	mg/Kg wet							
Endosulfan I	ND	0.0050	mg/Kg wet							
Endosulfan I [2C]	ND	0.0050	mg/Kg wet							
Endosulfan II	ND	0.0080	mg/Kg wet							
Endosulfan II [2C]	ND	0.0080	mg/Kg wet							
Endosulfan Sulfate	ND	0.0080	mg/Kg wet							
Endosulfan Sulfate [2C]	ND	0.0080	mg/Kg wet							
Endrin	ND	0.0080	mg/Kg wet							
Endrin [2C]	ND	0.0080	mg/Kg wet							
Endrin Aldehyde	ND	0.0080	mg/Kg wet							
Endrin Aldehyde [2C]	ND	0.0080	mg/Kg wet							
Endrin Ketone	ND	0.0080	mg/Kg wet							
Endrin Ketone [2C]	ND	0.0080	mg/Kg wet							
Heptachlor	ND	0.0050	mg/Kg wet							
Heptachlor [2C]	ND	0.0050	mg/Kg wet							
Heptachlor Epoxide	ND	0.0050	mg/Kg wet							
Heptachlor Epoxide [2C]	ND	0.0050	mg/Kg wet							
Hexachlorobenzene	ND	0.0060	mg/Kg wet							
Hexachlorobenzene [2C]	ND	0.0060	mg/Kg wet							
Methoxychlor	ND	0.050	mg/Kg wet							
Methoxychlor [2C]	ND	0.050	mg/Kg wet							
Toxaphene	ND	0.10	mg/Kg wet							
Toxaphene [2C]	ND	0.10	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.159		mg/Kg wet	0.200		79.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.159		mg/Kg wet	0.200		79.4	30-150			
Surrogate: Tetrachloro-m-xylene	0.152		mg/Kg wet	0.200		76.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.145		mg/Kg wet	0.200		72.5	30-150			



**QUALITY CONTROL**
**Organochloride Pesticides by GC/ECD - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B066768 - SW-846 3546</b>										
<b>LCS (B066768-BS1)</b>				Prepared: 01/28/13 Analyzed: 01/30/13						
Alachlor	0.021	0.020	mg/Kg wet	0.0200		105	40-140			
Alachlor [2C]	0.024	0.020	mg/Kg wet	0.0200		122	40-140			
Aldrin	0.019	0.0050	mg/Kg wet	0.0200		95.3	40-140			
Aldrin [2C]	0.022	0.0050	mg/Kg wet	0.0200		112	40-140			V-06
alpha-BHC	0.019	0.0050	mg/Kg wet	0.0200		96.0	40-140			
alpha-BHC [2C]	0.019	0.0050	mg/Kg wet	0.0200		94.5	40-140			
beta-BHC	0.019	0.0050	mg/Kg wet	0.0200		96.2	40-140			
beta-BHC [2C]	0.019	0.0050	mg/Kg wet	0.0200		96.4	40-140			
delta-BHC	0.020	0.0050	mg/Kg wet	0.0200		101	40-140			
delta-BHC [2C]	0.020	0.0050	mg/Kg wet	0.0200		97.7	40-140			
gamma-BHC (Lindane)	0.018	0.0020	mg/Kg wet	0.0200		91.2	40-140			
gamma-BHC (Lindane) [2C]	0.018	0.0020	mg/Kg wet	0.0200		92.4	40-140			
4,4'-DDD	0.020	0.0040	mg/Kg wet	0.0200		97.6	40-140			
4,4'-DDD [2C]	0.018	0.0040	mg/Kg wet	0.0200		92.0	40-140			
4,4'-DDE	0.019	0.0040	mg/Kg wet	0.0200		96.5	40-140			
4,4'-DDE [2C]	0.019	0.0040	mg/Kg wet	0.0200		93.7	40-140			
4,4'-DDT	0.019	0.0040	mg/Kg wet	0.0200		96.3	40-140			
4,4'-DDT [2C]	0.018	0.0040	mg/Kg wet	0.0200		91.4	40-140			
Dieldrin	0.019	0.0040	mg/Kg wet	0.0200		97.5	40-140			
Dieldrin [2C]	0.019	0.0040	mg/Kg wet	0.0200		92.8	40-140			
Endosulfan I	0.019	0.0050	mg/Kg wet	0.0200		95.8	40-140			
Endosulfan I [2C]	0.019	0.0050	mg/Kg wet	0.0200		92.6	40-140			
Endosulfan II	0.020	0.0080	mg/Kg wet	0.0200		97.8	40-140			
Endosulfan II [2C]	0.018	0.0080	mg/Kg wet	0.0200		91.9	40-140			
Endosulfan Sulfate	0.020	0.0080	mg/Kg wet	0.0200		99.4	40-140			
Endosulfan Sulfate [2C]	0.020	0.0080	mg/Kg wet	0.0200		98.4	40-140			
Endrin	0.020	0.0080	mg/Kg wet	0.0200		97.7	40-140			
Endrin [2C]	0.018	0.0080	mg/Kg wet	0.0200		90.9	40-140			
Endrin Aldehyde	0.017	0.0080	mg/Kg wet	0.0200		87.4	40-140			
Endrin Aldehyde [2C]	0.016	0.0080	mg/Kg wet	0.0200		79.6	40-140			
Endrin Ketone	0.020	0.0080	mg/Kg wet	0.0200		97.8	40-140			
Endrin Ketone [2C]	0.021	0.0080	mg/Kg wet	0.0200		103	40-140			
Heptachlor	0.019	0.0050	mg/Kg wet	0.0200		96.1	40-140			
Heptachlor [2C]	0.021	0.0050	mg/Kg wet	0.0200		105	40-140			
Heptachlor Epoxide	0.019	0.0050	mg/Kg wet	0.0200		93.8	40-140			
Heptachlor Epoxide [2C]	0.020	0.0050	mg/Kg wet	0.0200		99.8	40-140			
Hexachlorobenzene	0.020	0.0060	mg/Kg wet	0.0200		102	40-140			
Hexachlorobenzene [2C]	0.019	0.0060	mg/Kg wet	0.0200		95.7	40-140			
Methoxychlor	0.020	0.050	mg/Kg wet	0.0200		101	40-140			
Methoxychlor [2C]	0.021	0.050	mg/Kg wet	0.0200		103	40-140			
Surrogate: Decachlorobiphenyl	0.173		mg/Kg wet	0.200		86.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.192		mg/Kg wet	0.200		96.2	30-150			
Surrogate: Tetrachloro-m-xylene	0.178		mg/Kg wet	0.200		88.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.178		mg/Kg wet	0.200		89.0	30-150			



**QUALITY CONTROL**
**Organochloride Pesticides by GC/ECD - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B066768 - SW-846 3546</b>										
<b>LCS Dup (B066768-BSD1)</b>				Prepared: 01/28/13 Analyzed: 01/30/13						
Alachlor	0.019	0.020	mg/Kg wet	0.0200		95.5	40-140	9.34	30	
Alachlor [2C]	0.022	0.020	mg/Kg wet	0.0200		110	40-140	10.7	30	
Aldrin	0.017	0.0050	mg/Kg wet	0.0200		84.8	40-140	11.6	30	
Aldrin [2C]	0.020	0.0050	mg/Kg wet	0.0200		99.8	40-140	11.9	30	V-06
alpha-BHC	0.017	0.0050	mg/Kg wet	0.0200		85.2	40-140	11.9	30	
alpha-BHC [2C]	0.017	0.0050	mg/Kg wet	0.0200		84.2	40-140	11.5	30	
beta-BHC	0.017	0.0050	mg/Kg wet	0.0200		85.5	40-140	11.7	30	
beta-BHC [2C]	0.017	0.0050	mg/Kg wet	0.0200		86.8	40-140	10.6	30	
delta-BHC	0.016	0.0050	mg/Kg wet	0.0200		81.6	40-140	20.9	30	
delta-BHC [2C]	0.017	0.0050	mg/Kg wet	0.0200		87.2	40-140	11.3	30	
gamma-BHC (Lindane)	0.016	0.0020	mg/Kg wet	0.0200		81.1	40-140	11.7	30	
gamma-BHC (Lindane) [2C]	0.016	0.0020	mg/Kg wet	0.0200		82.5	40-140	11.4	30	
4,4'-DDD	0.017	0.0040	mg/Kg wet	0.0200		86.7	40-140	11.8	30	
4,4'-DDD [2C]	0.016	0.0040	mg/Kg wet	0.0200		82.2	40-140	11.2	30	
4,4'-DDE	0.017	0.0040	mg/Kg wet	0.0200		86.0	40-140	11.4	30	
4,4'-DDE [2C]	0.017	0.0040	mg/Kg wet	0.0200		83.2	40-140	11.9	30	
4,4'-DDT	0.017	0.0040	mg/Kg wet	0.0200		86.3	40-140	11.0	30	
4,4'-DDT [2C]	0.016	0.0040	mg/Kg wet	0.0200		81.6	40-140	11.3	30	
Dieldrin	0.017	0.0040	mg/Kg wet	0.0200		87.2	40-140	11.1	30	
Dieldrin [2C]	0.017	0.0040	mg/Kg wet	0.0200		82.7	40-140	11.5	30	
Endosulfan I	0.017	0.0050	mg/Kg wet	0.0200		85.5	40-140	11.4	30	
Endosulfan I [2C]	0.017	0.0050	mg/Kg wet	0.0200		82.7	40-140	11.4	30	
Endosulfan II	0.018	0.0080	mg/Kg wet	0.0200		87.6	40-140	11.1	30	
Endosulfan II [2C]	0.016	0.0080	mg/Kg wet	0.0200		82.1	40-140	11.3	30	
Endosulfan Sulfate	0.018	0.0080	mg/Kg wet	0.0200		88.8	40-140	11.3	30	
Endosulfan Sulfate [2C]	0.018	0.0080	mg/Kg wet	0.0200		87.8	40-140	11.3	30	
Endrin	0.017	0.0080	mg/Kg wet	0.0200		86.7	40-140	12.0	30	
Endrin [2C]	0.016	0.0080	mg/Kg wet	0.0200		80.5	40-140	12.2	30	
Endrin Aldehyde	0.016	0.0080	mg/Kg wet	0.0200		77.8	40-140	11.6	30	
Endrin Aldehyde [2C]	0.014	0.0080	mg/Kg wet	0.0200		71.3	40-140	11.0	30	
Endrin Ketone	0.018	0.0080	mg/Kg wet	0.0200		87.7	40-140	10.9	30	
Endrin Ketone [2C]	0.019	0.0080	mg/Kg wet	0.0200		92.7	40-140	10.5	30	
Heptachlor	0.017	0.0050	mg/Kg wet	0.0200		85.2	40-140	12.0	30	
Heptachlor [2C]	0.019	0.0050	mg/Kg wet	0.0200		93.9	40-140	11.6	30	
Heptachlor Epoxide	0.017	0.0050	mg/Kg wet	0.0200		83.8	40-140	11.3	30	
Heptachlor Epoxide [2C]	0.018	0.0050	mg/Kg wet	0.0200		89.5	40-140	10.9	30	
Hexachlorobenzene	0.018	0.0060	mg/Kg wet	0.0200		91.8	40-140	10.5	30	
Hexachlorobenzene [2C]	0.017	0.0060	mg/Kg wet	0.0200		85.9	40-140	10.8	30	
Methoxychlor	0.018	0.050	mg/Kg wet	0.0200		89.6	40-140	11.8	30	
Methoxychlor [2C]	0.018	0.050	mg/Kg wet	0.0200		92.4	40-140	11.1	30	
Surrogate: Decachlorobiphenyl	0.172		mg/Kg wet	0.200		86.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.190		mg/Kg wet	0.200		95.1	30-150			
Surrogate: Tetrachloro-m-xylene	0.174		mg/Kg wet	0.200		87.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.175		mg/Kg wet	0.200		87.3	30-150			



**QUALITY CONTROL**
**Organochloride Pesticides by GC/ECD - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B066768 - SW-846 3546</b>										
<b>Matrix Spike (B066768-MS1)</b>	<b>Source: 13A0643-39</b>			Prepared: 01/28/13 Analyzed: 01/30/13						
Alachlor	0.010	0.022	mg/Kg dry	0.0216	ND	47.9	30-150			
Alachlor [2C]	0.011	0.022	mg/Kg dry	0.0216	ND	51.3	30-150			
Aldrin	0.0087	0.0054	mg/Kg dry	0.0216	ND	40.4	30-150			
Aldrin [2C]	0.0093	0.0054	mg/Kg dry	0.0216	ND	43.0	30-150			V-06
alpha-BHC	0.0083	0.0054	mg/Kg dry	0.0216	ND	38.7	30-150			
alpha-BHC [2C]	0.0072	0.0054	mg/Kg dry	0.0216	ND	33.5	30-150			
beta-BHC	0.010	0.0054	mg/Kg dry	0.0216	ND	46.2	30-150			
beta-BHC [2C]	0.0082	0.0054	mg/Kg dry	0.0216	ND	38.2	30-150			
delta-BHC	0.010	0.0054	mg/Kg dry	0.0216	ND	47.0	30-150			
delta-BHC [2C]	0.0088	0.0054	mg/Kg dry	0.0216	ND	40.7	30-150			
gamma-BHC (Lindane)	0.0075	0.0022	mg/Kg dry	0.0216	ND	34.6	30-150			
gamma-BHC (Lindane) [2C]	0.0075	0.0022	mg/Kg dry	0.0216	ND	34.7	30-150			
4,4'-DDD	0.0095	0.0043	mg/Kg dry	0.0216	ND	43.8	30-150			
4,4'-DDD [2C]	0.014	0.0043	mg/Kg dry	0.0216	ND	63.0	30-150			
4,4'-DDE	0.0096	0.0043	mg/Kg dry	0.0216	ND	44.5	30-150			
4,4'-DDE [2C]	0.0088	0.0043	mg/Kg dry	0.0216	ND	41.0	30-150			
4,4'-DDT	0.0088	0.0043	mg/Kg dry	0.0216	ND	41.0	30-150			R-06
4,4'-DDT [2C]	0.0076	0.0043	mg/Kg dry	0.0216	ND	35.3	30-150			
Dieldrin	0.0098	0.0043	mg/Kg dry	0.0216	ND	45.4	30-150			
Dieldrin [2C]	0.0077	0.0043	mg/Kg dry	0.0216	ND	35.8	30-150			
Endosulfan I	0.0098	0.0054	mg/Kg dry	0.0216	ND	45.5	30-150			
Endosulfan I [2C]	0.0083	0.0054	mg/Kg dry	0.0216	ND	38.7	30-150			
Endosulfan II	0.0085	0.0086	mg/Kg dry	0.0216	ND	39.5	30-150			
Endosulfan II [2C]	0.010	0.0086	mg/Kg dry	0.0216	ND	46.3	30-150			
Endosulfan Sulfate	0.013	0.0086	mg/Kg dry	0.0216	ND	58.3	30-150			
Endosulfan Sulfate [2C]	0.013	0.0086	mg/Kg dry	0.0216	ND	61.2	30-150			
Endrin	0.0085	0.0086	mg/Kg dry	0.0216	ND	39.3	30-150			
Endrin [2C]	0.0082	0.0086	mg/Kg dry	0.0216	ND	38.0	30-150			
Endrin Aldehyde	0.010	0.0086	mg/Kg dry	0.0216	ND	46.8	30-150			
Endrin Aldehyde [2C]	0.0088	0.0086	mg/Kg dry	0.0216	ND	40.6	30-150			
Endrin Ketone	0.015	0.0086	mg/Kg dry	0.0216	ND	68.7	30-150			R-06
Endrin Ketone [2C]	0.012	0.0086	mg/Kg dry	0.0216	ND	55.2	30-150			
Heptachlor	0.0079	0.0054	mg/Kg dry	0.0216	ND	36.7	30-150			
Heptachlor [2C]	0.0082	0.0054	mg/Kg dry	0.0216	ND	38.1	30-150			
Heptachlor Epoxide	0.0088	0.0054	mg/Kg dry	0.0216	ND	40.9	30-150			
Heptachlor Epoxide [2C]	0.0084	0.0054	mg/Kg dry	0.0216	ND	39.0	30-150			
Hexachlorobenzene	0.010	0.0065	mg/Kg dry	0.0216	ND	48.0	30-150			
Hexachlorobenzene [2C]	0.0089	0.0065	mg/Kg dry	0.0216	ND	41.1	30-150			
Methoxychlor	0.013	0.054	mg/Kg dry	0.0216	ND	58.6	30-150			
Methoxychlor [2C]	0.011	0.054	mg/Kg dry	0.0216	ND	51.9	30-150			
Surrogate: Decachlorobiphenyl	0.0995		mg/Kg dry	0.216		46.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.133		mg/Kg dry	0.216		61.5	30-150			
Surrogate: Tetrachloro-m-xylene	0.0902		mg/Kg dry	0.216		41.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0876		mg/Kg dry	0.216		40.6	30-150			



**QUALITY CONTROL**
**Organochloride Pesticides by GC/ECD - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B066768 - SW-846 3546</b>										
<b>Matrix Spike Dup (B066768-MSD1)</b>	<b>Source: 13A0643-39</b>			Prepared: 01/28/13 Analyzed: 01/31/13						
Alachlor	0.0096	0.022	mg/Kg dry	0.0216	ND	44.3	30-150	7.90	30	
Alachlor [2C]	0.011	0.022	mg/Kg dry	0.0216	ND	53.0	30-150	3.28	30	
Aldrin	0.010	0.0054	mg/Kg dry	0.0216	ND	46.2	30-150	13.2	30	
Aldrin [2C]	0.011	0.0054	mg/Kg dry	0.0216	ND	52.1	30-150	19.3	30	V-06
alpha-BHC	0.0094	0.0054	mg/Kg dry	0.0216	ND	43.7	30-150	12.2	30	
alpha-BHC [2C]	0.0088	0.0054	mg/Kg dry	0.0216	ND	40.6	30-150	19.2	30	
beta-BHC	0.010	0.0054	mg/Kg dry	0.0216	ND	47.9	30-150	3.55	30	
beta-BHC [2C]	0.0095	0.0054	mg/Kg dry	0.0216	ND	43.9	30-150	14.0	30	
delta-BHC	0.013	0.0054	mg/Kg dry	0.0216	ND	58.2	30-150	21.2	30	
delta-BHC [2C]	0.010	0.0054	mg/Kg dry	0.0216	ND	47.0	30-150	14.4	30	
gamma-BHC (Lindane)	0.0089	0.0022	mg/Kg dry	0.0216	ND	41.5	30-150	18.0	30	
gamma-BHC (Lindane) [2C]	0.0088	0.0022	mg/Kg dry	0.0216	ND	41.0	30-150	16.7	30	
4,4'-DDD	0.0094	0.0043	mg/Kg dry	0.0216	ND	43.8	30-150	0.114	30	
4,4'-DDD [2C]	0.013	0.0043	mg/Kg dry	0.0216	ND	60.3	30-150	4.38	30	
4,4'-DDE	0.010	0.0043	mg/Kg dry	0.0216	ND	46.4	30-150	4.26	30	
4,4'-DDE [2C]	0.0094	0.0043	mg/Kg dry	0.0216	ND	43.7	30-150	6.41	30	
4,4'-DDT	0.012	0.0043	mg/Kg dry	0.0216	ND	56.4	30-150	<b>31.6</b> *	30	R-06
4,4'-DDT [2C]	0.0094	0.0043	mg/Kg dry	0.0216	ND	43.6	30-150	21.2	30	
Dieldrin	0.0097	0.0043	mg/Kg dry	0.0216	ND	45.2	30-150	0.464	30	
Dieldrin [2C]	0.0090	0.0043	mg/Kg dry	0.0216	ND	41.8	30-150	15.5	30	
Endosulfan I	0.011	0.0054	mg/Kg dry	0.0216	ND	50.0	30-150	9.41	30	
Endosulfan I [2C]	0.0089	0.0054	mg/Kg dry	0.0216	ND	41.4	30-150	6.76	30	
Endosulfan II	0.0093	0.0086	mg/Kg dry	0.0216	ND	42.9	30-150	8.24	30	
Endosulfan II [2C]	0.011	0.0086	mg/Kg dry	0.0216	ND	51.7	30-150	11.1	30	
Endosulfan Sulfate	0.013	0.0086	mg/Kg dry	0.0216	ND	58.1	30-150	0.387	30	
Endosulfan Sulfate [2C]	0.013	0.0086	mg/Kg dry	0.0216	ND	61.9	30-150	1.08	30	
Endrin	0.010	0.0086	mg/Kg dry	0.0216	ND	47.6	30-150	19.0	30	
Endrin [2C]	0.0086	0.0086	mg/Kg dry	0.0216	ND	40.0	30-150	5.06	30	
Endrin Aldehyde	0.011	0.0086	mg/Kg dry	0.0216	ND	52.0	30-150	10.5	30	
Endrin Aldehyde [2C]	0.0083	0.0086	mg/Kg dry	0.0216	ND	38.6	30-150	5.10	30	
Endrin Ketone	0.011	0.0086	mg/Kg dry	0.0216	ND	49.4	30-150	<b>32.8</b> *	30	R-06
Endrin Ketone [2C]	0.011	0.0086	mg/Kg dry	0.0216	ND	51.6	30-150	6.69	30	
Heptachlor	0.0097	0.0054	mg/Kg dry	0.0216	ND	44.9	30-150	20.0	30	
Heptachlor [2C]	0.010	0.0054	mg/Kg dry	0.0216	ND	48.6	30-150	24.2	30	
Heptachlor Epoxide	0.010	0.0054	mg/Kg dry	0.0216	ND	46.6	30-150	12.9	30	
Heptachlor Epoxide [2C]	0.0092	0.0054	mg/Kg dry	0.0216	ND	42.7	30-150	8.96	30	
Hexachlorobenzene	0.012	0.0065	mg/Kg dry	0.0216	ND	55.6	30-150	14.7	30	
Hexachlorobenzene [2C]	0.010	0.0065	mg/Kg dry	0.0216	ND	46.2	30-150	11.8	30	
Methoxychlor	0.013	0.054	mg/Kg dry	0.0216	ND	60.5	30-150	3.11	30	
Methoxychlor [2C]	0.012	0.054	mg/Kg dry	0.0216	ND	57.2	30-150	9.70	30	
Surrogate: Decachlorobiphenyl	0.0961		mg/Kg dry	0.216		44.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.125		mg/Kg dry	0.216		57.8	30-150			
Surrogate: Tetrachloro-m-xylene	0.103		mg/Kg dry	0.216		47.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.101		mg/Kg dry	0.216		46.7	30-150			



**QUALITY CONTROL**
**Organochloride Pesticides by GC/ECD - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B066815 - SW-846 3510C**
**Blank (B066815-BLK1)**

Prepared: 01/28/13 Analyzed: 01/29/13

Alachlor	ND	0.20	µg/L							
Alachlor [2C]	ND	0.20	µg/L							
Aldrin	ND	0.050	µg/L							
Aldrin [2C]	ND	0.050	µg/L							
alpha-BHC	ND	0.050	µg/L							
alpha-BHC [2C]	ND	0.050	µg/L							
beta-BHC	ND	0.050	µg/L							
beta-BHC [2C]	ND	0.050	µg/L							
delta-BHC	ND	0.050	µg/L							
delta-BHC [2C]	ND	0.050	µg/L							
gamma-BHC (Lindane)	ND	0.030	µg/L							
gamma-BHC (Lindane) [2C]	ND	0.030	µg/L							
Chlordane	ND	0.20	µg/L							
Chlordane [2C]	ND	0.20	µg/L							
4,4'-DDD	ND	0.040	µg/L							
4,4'-DDD [2C]	ND	0.040	µg/L							
4,4'-DDE	ND	0.040	µg/L							
4,4'-DDE [2C]	ND	0.040	µg/L							
4,4'-DDT	ND	0.040	µg/L							
4,4'-DDT [2C]	ND	0.040	µg/L							
Dieldrin	ND	0.0020	µg/L							
Dieldrin [2C]	ND	0.0020	µg/L							
Endosulfan I	ND	0.050	µg/L							
Endosulfan I [2C]	ND	0.050	µg/L							
Endosulfan II	ND	0.080	µg/L							
Endosulfan II [2C]	ND	0.080	µg/L							
Endosulfan Sulfate	ND	0.080	µg/L							
Endosulfan Sulfate [2C]	ND	0.080	µg/L							
Endrin	ND	0.080	µg/L							
Endrin [2C]	ND	0.080	µg/L							
Endrin Aldehyde	ND	0.080	µg/L							
Endrin Aldehyde [2C]	ND	0.080	µg/L							
Endrin Ketone	ND	0.080	µg/L							
Endrin Ketone [2C]	ND	0.080	µg/L							
Heptachlor	ND	0.050	µg/L							
Heptachlor [2C]	ND	0.050	µg/L							
Heptachlor Epoxide	ND	0.050	µg/L							
Heptachlor Epoxide [2C]	ND	0.050	µg/L							
Hexachlorobenzene	ND	0.050	µg/L							
Hexachlorobenzene [2C]	ND	0.050	µg/L							
Methoxychlor	ND	0.50	µg/L							
Methoxychlor [2C]	ND	0.50	µg/L							
Toxaphene	ND	1.0	µg/L							
Toxaphene [2C]	ND	1.0	µg/L							
Surrogate: Decachlorobiphenyl	2.00		µg/L	2.00		99.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.79		µg/L	2.00		89.5	30-150			
Surrogate: Tetrachloro-m-xylene	1.82		µg/L	2.00		91.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.70		µg/L	2.00		85.2	30-150			



**QUALITY CONTROL**
**Organochloride Pesticides by GC/ECD - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B066815 - SW-846 3510C</b>										
<b>LCS (B066815-BS1)</b>				Prepared: 01/28/13 Analyzed: 01/29/13						
Alachlor	0.20	0.20	µg/L	0.200		102	40-140			
Alachlor [2C]	0.21	0.20	µg/L	0.200		105	40-140			
Aldrin	0.17	0.050	µg/L	0.200		85.3	40-140			
Aldrin [2C]	0.16	0.050	µg/L	0.200		81.8	40-140			
alpha-BHC	0.18	0.050	µg/L	0.200		91.0	40-140			
alpha-BHC [2C]	0.18	0.050	µg/L	0.200		88.4	40-140			
beta-BHC	0.19	0.050	µg/L	0.200		96.9	40-140			
beta-BHC [2C]	0.19	0.050	µg/L	0.200		93.2	40-140			
delta-BHC	0.19	0.050	µg/L	0.200		94.8	40-140			
delta-BHC [2C]	0.18	0.050	µg/L	0.200		89.6	40-140			
gamma-BHC (Lindane)	0.18	0.030	µg/L	0.200		89.2	40-140			
gamma-BHC (Lindane) [2C]	0.18	0.030	µg/L	0.200		89.3	40-140			
4,4'-DDD	0.21	0.040	µg/L	0.200		103	40-140			
4,4'-DDD [2C]	0.20	0.040	µg/L	0.200		98.0	40-140			
4,4'-DDE	0.20	0.040	µg/L	0.200		97.7	40-140			
4,4'-DDE [2C]	0.19	0.040	µg/L	0.200		93.3	40-140			
4,4'-DDT	0.20	0.040	µg/L	0.200		97.6	40-140			
4,4'-DDT [2C]	0.19	0.040	µg/L	0.200		94.3	40-140			
Dieldrin	0.20	0.0020	µg/L	0.200		102	40-140			
Dieldrin [2C]	0.19	0.0020	µg/L	0.200		94.9	40-140			
Endosulfan I	0.20	0.050	µg/L	0.200		99.4	40-140			
Endosulfan I [2C]	0.19	0.050	µg/L	0.200		94.9	40-140			
Endosulfan II	0.20	0.080	µg/L	0.200		100	40-140			
Endosulfan II [2C]	0.19	0.080	µg/L	0.200		97.4	40-140			
Endosulfan Sulfate	0.20	0.080	µg/L	0.200		101	40-140			
Endosulfan Sulfate [2C]	0.20	0.080	µg/L	0.200		97.7	40-140			
Endrin	0.20	0.080	µg/L	0.200		102	40-140			
Endrin [2C]	0.20	0.080	µg/L	0.200		98.7	40-140			
Endrin Aldehyde	0.18	0.080	µg/L	0.200		90.7	40-140			
Endrin Aldehyde [2C]	0.16	0.080	µg/L	0.200		81.3	40-140			
Endrin Ketone	0.20	0.080	µg/L	0.200		102	40-140			
Endrin Ketone [2C]	0.20	0.080	µg/L	0.200		98.6	40-140			
Heptachlor	0.18	0.050	µg/L	0.200		89.1	40-140			
Heptachlor [2C]	0.18	0.050	µg/L	0.200		87.8	40-140			
Heptachlor Epoxide	0.20	0.050	µg/L	0.200		98.1	40-140			
Heptachlor Epoxide [2C]	0.19	0.050	µg/L	0.200		94.0	40-140			
Hexachlorobenzene	0.19	0.050	µg/L	0.200		93.8	40-140			
Hexachlorobenzene [2C]	0.17	0.050	µg/L	0.200		83.9	40-140			
Methoxychlor	0.21	0.50	µg/L	0.200		104	40-140			
Methoxychlor [2C]	0.21	0.50	µg/L	0.200		107	40-140			
Surrogate: Decachlorobiphenyl	1.95		µg/L	2.00		97.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.75		µg/L	2.00		87.5	30-150			
Surrogate: Tetrachloro-m-xylene	1.79		µg/L	2.00		89.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.71		µg/L	2.00		85.3	30-150			



**QUALITY CONTROL**
**Organochloride Pesticides by GC/ECD - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B066815 - SW-846 3510C</b>										
<b>LCS Dup (B066815-BSD1)</b>				Prepared: 01/28/13 Analyzed: 01/29/13						
Alachlor	0.20	0.20	µg/L	0.200		101	40-140	0.138	20	
Alachlor [2C]	0.21	0.20	µg/L	0.200		105	40-140	0.228	20	
Aldrin	0.17	0.050	µg/L	0.200		87.1	40-140	2.07	20	
Aldrin [2C]	0.17	0.050	µg/L	0.200		83.2	40-140	1.61	20	
alpha-BHC	0.18	0.050	µg/L	0.200		91.7	40-140	0.700	20	
alpha-BHC [2C]	0.18	0.050	µg/L	0.200		89.1	40-140	0.828	20	
beta-BHC	0.19	0.050	µg/L	0.200		97.2	40-140	0.356	20	
beta-BHC [2C]	0.19	0.050	µg/L	0.200		94.0	40-140	0.892	20	
delta-BHC	0.19	0.050	µg/L	0.200		92.7	40-140	2.18	20	
delta-BHC [2C]	0.18	0.050	µg/L	0.200		90.4	40-140	0.817	20	
gamma-BHC (Lindane)	0.18	0.030	µg/L	0.200		90.1	40-140	1.09	20	
gamma-BHC (Lindane) [2C]	0.18	0.030	µg/L	0.200		90.1	40-140	0.892	20	
4,4'-DDD	0.21	0.040	µg/L	0.200		104	40-140	1.29	20	
4,4'-DDD [2C]	0.20	0.040	µg/L	0.200		99.3	40-140	1.32	20	
4,4'-DDE	0.20	0.040	µg/L	0.200		98.9	40-140	1.24	20	
4,4'-DDE [2C]	0.19	0.040	µg/L	0.200		94.8	40-140	1.50	20	
4,4'-DDT	0.20	0.040	µg/L	0.200		98.9	40-140	1.27	20	
4,4'-DDT [2C]	0.19	0.040	µg/L	0.200		95.2	40-140	1.04	20	
Dieldrin	0.21	0.0020	µg/L	0.200		103	40-140	0.981	20	
Dieldrin [2C]	0.19	0.0020	µg/L	0.200		96.1	40-140	1.26	20	
Endosulfan I	0.20	0.050	µg/L	0.200		101	40-140	1.25	20	
Endosulfan I [2C]	0.19	0.050	µg/L	0.200		96.1	40-140	1.21	20	
Endosulfan II	0.20	0.080	µg/L	0.200		102	40-140	1.27	20	
Endosulfan II [2C]	0.20	0.080	µg/L	0.200		98.6	40-140	1.27	20	
Endosulfan Sulfate	0.20	0.080	µg/L	0.200		101	40-140	0.608	20	
Endosulfan Sulfate [2C]	0.20	0.080	µg/L	0.200		98.7	40-140	1.00	20	
Endrin	0.20	0.080	µg/L	0.200		102	40-140	0.868	20	
Endrin [2C]	0.20	0.080	µg/L	0.200		99.6	40-140	0.933	20	
Endrin Aldehyde	0.18	0.080	µg/L	0.200		89.0	40-140	1.86	20	
Endrin Aldehyde [2C]	0.16	0.080	µg/L	0.200		81.3	40-140	0.0800	20	
Endrin Ketone	0.21	0.080	µg/L	0.200		103	40-140	0.787	20	
Endrin Ketone [2C]	0.20	0.080	µg/L	0.200		99.5	40-140	0.904	20	
Heptachlor	0.18	0.050	µg/L	0.200		88.5	40-140	0.659	20	
Heptachlor [2C]	0.17	0.050	µg/L	0.200		87.2	40-140	0.686	20	
Heptachlor Epoxide	0.20	0.050	µg/L	0.200		99.1	40-140	1.08	20	
Heptachlor Epoxide [2C]	0.19	0.050	µg/L	0.200		94.9	40-140	0.958	20	
Hexachlorobenzene	0.18	0.050	µg/L	0.200		90.7	40-140	3.33	20	
Hexachlorobenzene [2C]	0.16	0.050	µg/L	0.200		81.2	40-140	3.26	20	
Methoxychlor	0.21	0.50	µg/L	0.200		104	40-140	0.163	20	
Methoxychlor [2C]	0.21	0.50	µg/L	0.200		107	40-140	0.272	20	
Surrogate: Decachlorobiphenyl	1.80		µg/L	2.00		89.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.60		µg/L	2.00		80.1	30-150			
Surrogate: Tetrachloro-m-xylene	1.62		µg/L	2.00		80.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.53		µg/L	2.00		76.5	30-150			



**QUALITY CONTROL**
**Polychlorinated Biphenyls By GC/ECD - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B066751 - SW-846 3546**
**Blank (B066751-BLK1)**

Prepared: 01/26/13 Analyzed: 01/28/13

Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.148		mg/Kg wet	0.200		74.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.151		mg/Kg wet	0.200		75.3	30-150			
Surrogate: Tetrachloro-m-xylene	0.148		mg/Kg wet	0.200		74.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.167		mg/Kg wet	0.200		83.6	30-150			

**LCS (B066751-BS1)**

Prepared: 01/26/13 Analyzed: 01/28/13

Aroclor-1016	0.19	0.10	mg/Kg wet	0.200		97.0	40-140			
Aroclor-1016 [2C]	0.19	0.10	mg/Kg wet	0.200		94.3	40-140			
Aroclor-1260	0.18	0.10	mg/Kg wet	0.200		88.3	40-140			
Aroclor-1260 [2C]	0.17	0.10	mg/Kg wet	0.200		85.7	40-140			
Surrogate: Decachlorobiphenyl	0.158		mg/Kg wet	0.200		79.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.148		mg/Kg wet	0.200		74.2	30-150			
Surrogate: Tetrachloro-m-xylene	0.160		mg/Kg wet	0.200		80.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.167		mg/Kg wet	0.200		83.4	30-150			

**LCS Dup (B066751-BSD1)**

Prepared: 01/26/13 Analyzed: 01/28/13

Aroclor-1016	0.18	0.10	mg/Kg wet	0.200		92.5	40-140	4.80	30	
Aroclor-1016 [2C]	0.18	0.10	mg/Kg wet	0.200		90.2	40-140	4.45	30	
Aroclor-1260	0.17	0.10	mg/Kg wet	0.200		83.3	40-140	5.87	30	
Aroclor-1260 [2C]	0.16	0.10	mg/Kg wet	0.200		82.4	40-140	4.02	30	
Surrogate: Decachlorobiphenyl	0.143		mg/Kg wet	0.200		71.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.135		mg/Kg wet	0.200		67.5	30-150			
Surrogate: Tetrachloro-m-xylene	0.147		mg/Kg wet	0.200		73.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.152		mg/Kg wet	0.200		76.1	30-150			



**QUALITY CONTROL**
**Polychlorinated Biphenyls By GC/ECD - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B066751 - SW-846 3546**
**Matrix Spike (B066751-MS1)**
**Source: 13A0643-11**

Prepared: 01/26/13 Analyzed: 01/29/13

Aroclor-1016	0.19	0.10	mg/Kg dry	0.210	ND	92.3	40-140			
Aroclor-1016 [2C]	0.19	0.10	mg/Kg dry	0.210	ND	88.5	40-140			
Aroclor-1260	0.19	0.10	mg/Kg dry	0.210	ND	89.8	40-140			
Aroclor-1260 [2C]	0.19	0.10	mg/Kg dry	0.210	ND	91.8	40-140			
Surrogate: Decachlorobiphenyl	0.162		mg/Kg dry	0.210		77.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.167		mg/Kg dry	0.210		79.7	30-150			
Surrogate: Tetrachloro-m-xylene	0.156		mg/Kg dry	0.210		74.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.158		mg/Kg dry	0.210		75.3	30-150			

**Matrix Spike Dup (B066751-MSD1)**
**Source: 13A0643-11**

Prepared: 01/26/13 Analyzed: 01/29/13

Aroclor-1016	0.19	0.10	mg/Kg dry	0.208	ND	92.6	40-140	0.631	30	
Aroclor-1016 [2C]	0.18	0.10	mg/Kg dry	0.208	ND	88.5	40-140	1.03	30	
Aroclor-1260	0.19	0.10	mg/Kg dry	0.208	ND	89.2	40-140	1.64	30	
Aroclor-1260 [2C]	0.19	0.10	mg/Kg dry	0.208	ND	92.3	40-140	0.418	30	
Surrogate: Decachlorobiphenyl	0.163		mg/Kg dry	0.208		78.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.164		mg/Kg dry	0.208		79.0	30-150			
Surrogate: Tetrachloro-m-xylene	0.153		mg/Kg dry	0.208		73.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.155		mg/Kg dry	0.208		74.5	30-150			

**Batch B066767 - SW-846 3546**
**Blank (B066767-BLK1)**

Prepared: 01/28/13 Analyzed: 01/31/13

Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.164		mg/Kg wet	0.200		82.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.163		mg/Kg wet	0.200		81.6	30-150			
Surrogate: Tetrachloro-m-xylene	0.166		mg/Kg wet	0.200		83.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.166		mg/Kg wet	0.200		82.9	30-150			



**QUALITY CONTROL**
**Polychlorinated Biphenyls By GC/ECD - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B066767 - SW-846 3546**
**LCS (B066767-BS1)**

Prepared: 01/28/13 Analyzed: 01/31/13

Aroclor-1016	0.22	0.10	mg/Kg wet	0.200		111	40-140			
Aroclor-1016 [2C]	0.22	0.10	mg/Kg wet	0.200		110	40-140			
Aroclor-1260	0.21	0.10	mg/Kg wet	0.200		107	40-140			
Aroclor-1260 [2C]	0.21	0.10	mg/Kg wet	0.200		107	40-140			
Surrogate: Decachlorobiphenyl	0.179		mg/Kg wet	0.200		89.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.175		mg/Kg wet	0.200		87.6	30-150			
Surrogate: Tetrachloro-m-xylene	0.179		mg/Kg wet	0.200		89.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.184		mg/Kg wet	0.200		91.8	30-150			

**LCS Dup (B066767-BS1)**

Prepared: 01/28/13 Analyzed: 01/31/13

Aroclor-1016	0.23	0.10	mg/Kg wet	0.200		114	40-140	3.09	30	
Aroclor-1016 [2C]	0.22	0.10	mg/Kg wet	0.200		111	40-140	0.204	30	
Aroclor-1260	0.22	0.10	mg/Kg wet	0.200		109	40-140	1.80	30	
Aroclor-1260 [2C]	0.22	0.10	mg/Kg wet	0.200		109	40-140	1.24	30	
Surrogate: Decachlorobiphenyl	0.191		mg/Kg wet	0.200		95.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.187		mg/Kg wet	0.200		93.4	30-150			
Surrogate: Tetrachloro-m-xylene	0.192		mg/Kg wet	0.200		95.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.196		mg/Kg wet	0.200		98.2	30-150			

**Matrix Spike (B066767-MS1)**

Source: 13A0643-44

Prepared: 01/28/13 Analyzed: 01/31/13

Aroclor-1016	0.12	0.11	mg/Kg dry	0.221	ND	56.5	40-140			
Aroclor-1016 [2C]	0.13	0.11	mg/Kg dry	0.221	ND	57.1	40-140			
Aroclor-1260	0.13	0.11	mg/Kg dry	0.221	ND	57.7	40-140			
Aroclor-1260 [2C]	0.13	0.11	mg/Kg dry	0.221	ND	59.8	40-140			
Surrogate: Decachlorobiphenyl	0.105		mg/Kg dry	0.221		47.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.105		mg/Kg dry	0.221		47.8	30-150			
Surrogate: Tetrachloro-m-xylene	0.101		mg/Kg dry	0.221		45.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.103		mg/Kg dry	0.221		46.7	30-150			

**Matrix Spike Dup (B066767-MSD1)**

Source: 13A0643-44

Prepared: 01/28/13 Analyzed: 01/31/13

Aroclor-1016	0.13	0.11	mg/Kg dry	0.218	ND	59.6	40-140	4.29	30	
Aroclor-1016 [2C]	0.13	0.11	mg/Kg dry	0.218	ND	61.0	40-140	5.52	30	
Aroclor-1260	0.13	0.11	mg/Kg dry	0.218	ND	60.3	40-140	3.42	30	
Aroclor-1260 [2C]	0.13	0.11	mg/Kg dry	0.218	ND	61.2	40-140	1.41	30	
Surrogate: Decachlorobiphenyl	0.105		mg/Kg dry	0.218		48.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.105		mg/Kg dry	0.218		48.2	30-150			
Surrogate: Tetrachloro-m-xylene	0.103		mg/Kg dry	0.218		47.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.105		mg/Kg dry	0.218		48.3	30-150			

**Batch B066788 - SW-846 3510C**
**Blank (B066788-BLK1)**

Prepared: 01/28/13 Analyzed: 01/29/13

Aroclor-1016	ND	0.20	µg/L							
Aroclor-1016 [2C]	ND	0.20	µg/L							
Aroclor-1221	ND	0.20	µg/L							
Aroclor-1221 [2C]	ND	0.20	µg/L							
Aroclor-1232	ND	0.20	µg/L							
Aroclor-1232 [2C]	ND	0.20	µg/L							
Aroclor-1242	ND	0.20	µg/L							
Aroclor-1242 [2C]	ND	0.20	µg/L							
Aroclor-1248	ND	0.20	µg/L							
Aroclor-1248 [2C]	ND	0.20	µg/L							
Aroclor-1254	ND	0.20	µg/L							



**QUALITY CONTROL**
**Polychlorinated Biphenyls By GC/ECD - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B066788 - SW-846 3510C</b>										
<b>Blank (B066788-BLK1)</b>										
Prepared: 01/28/13 Analyzed: 01/29/13										
Aroclor-1254 [2C]	ND	0.20	µg/L							
Aroclor-1260	ND	0.20	µg/L							
Aroclor-1260 [2C]	ND	0.20	µg/L							
Aroclor-1262	ND	0.20	µg/L							
Aroclor-1262 [2C]	ND	0.20	µg/L							
Aroclor-1268	ND	0.20	µg/L							
Aroclor-1268 [2C]	ND	0.20	µg/L							
Surrogate: Decachlorobiphenyl	1.76		µg/L	2.00		88.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.78		µg/L	2.00		89.0	30-150			
Surrogate: Tetrachloro-m-xylene	1.63		µg/L	2.00		81.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.61		µg/L	2.00		80.5	30-150			
<b>LCS (B066788-BS1)</b>										
Prepared: 01/28/13 Analyzed: 01/29/13										
Aroclor-1016	0.51	0.20	µg/L	0.500		103	40-140			
Aroclor-1016 [2C]	0.50	0.20	µg/L	0.500		99.5	40-140			
Aroclor-1260	0.49	0.20	µg/L	0.500		97.8	40-140			
Aroclor-1260 [2C]	0.50	0.20	µg/L	0.500		101	40-140			
Surrogate: Decachlorobiphenyl	1.71		µg/L	2.00		85.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.74		µg/L	2.00		86.9	30-150			
Surrogate: Tetrachloro-m-xylene	1.58		µg/L	2.00		78.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.56		µg/L	2.00		78.2	30-150			
<b>LCS Dup (B066788-BSD1)</b>										
Prepared: 01/28/13 Analyzed: 01/29/13										
Aroclor-1016	0.50	0.20	µg/L	0.500		101	40-140	2.26	20	
Aroclor-1016 [2C]	0.48	0.20	µg/L	0.500		96.7	40-140	2.86	20	
Aroclor-1260	0.49	0.20	µg/L	0.500		98.4	40-140	0.669	20	
Aroclor-1260 [2C]	0.51	0.20	µg/L	0.500		101	40-140	0.702	20	
Surrogate: Decachlorobiphenyl	1.63		µg/L	2.00		81.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.66		µg/L	2.00		83.2	30-150			
Surrogate: Tetrachloro-m-xylene	1.55		µg/L	2.00		77.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.55		µg/L	2.00		77.4	30-150			



**QUALITY CONTROL**
**Herbicides by GC/ECD - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B066636 - SW-846 8151**
**Blank (B066636-BLK1)**

Prepared: 01/17/13 Analyzed: 01/31/13

2,4-D	ND	24	µg/Kg wet							
2,4-D [2C]	ND	24	µg/Kg wet							
2,4,5-TP (Silvex)	ND	2.4	µg/Kg wet							
2,4,5-TP (Silvex) [2C]	ND	2.4	µg/Kg wet							
2,4,5-T	ND	2.4	µg/Kg wet							V-05
2,4,5-T [2C]	ND	2.4	µg/Kg wet							
Dalapon	ND	60	µg/Kg wet							
Dalapon [2C]	ND	60	µg/Kg wet							
Dicamba	ND	2.4	µg/Kg wet							
Dicamba [2C]	ND	2.4	µg/Kg wet							

Surrogate: 2,4-Dichlorophenylacetic acid 64.6 µg/Kg wet 95.2 67.8 30-150

Surrogate: 2,4-Dichlorophenylacetic acid [2C] 70.1 µg/Kg wet 95.2 73.6 30-150

**LCS (B066636-BS1)**

Prepared: 01/17/13 Analyzed: 01/31/13

2,4-D	91.9	25	µg/Kg wet	124		73.9	40-140			
2,4-D [2C]	112	25	µg/Kg wet	124		90.0	40-140			
2,4,5-TP (Silvex)	9.53	2.5	µg/Kg wet	12.4		76.6	40-140			
2,4,5-TP (Silvex) [2C]	11.2	2.5	µg/Kg wet	12.4		89.9	40-140			V-06
2,4,5-T	7.64	2.5	µg/Kg wet	12.4		61.4	40-140			V-05
2,4,5-T [2C]	11.4	2.5	µg/Kg wet	12.4		91.6	40-140			V-06
Dalapon	180	62	µg/Kg wet	311		57.9	40-140			
Dalapon [2C]	203	62	µg/Kg wet	311		65.2	40-140			
Dicamba	10.9	2.5	µg/Kg wet	12.4		87.8	40-140			
Dicamba [2C]	17.6	2.5	µg/Kg wet	12.4		142 *	40-140			L-07, V-06

Surrogate: 2,4-Dichlorophenylacetic acid 78.3 µg/Kg wet 99.5 78.7 30-150

Surrogate: 2,4-Dichlorophenylacetic acid [2C] 88.0 µg/Kg wet 99.5 88.4 30-150

**LCS Dup (B066636-BSD1)**

Prepared: 01/17/13 Analyzed: 01/31/13

2,4-D	95.0	25	µg/Kg wet	124		76.4	40-140	3.23	30	
2,4-D [2C]	116	25	µg/Kg wet	124		93.6	40-140	3.84	30	
2,4,5-TP (Silvex)	9.32	2.5	µg/Kg wet	12.4		75.0	40-140	2.21	30	
2,4,5-TP (Silvex) [2C]	11.3	2.5	µg/Kg wet	12.4		91.1	40-140	1.33	30	V-06
2,4,5-T	7.62	2.5	µg/Kg wet	12.4		61.3	40-140	0.228	30	V-05
2,4,5-T [2C]	11.7	2.5	µg/Kg wet	12.4		93.9	40-140	2.57	30	V-06
Dalapon	202	62	µg/Kg wet	311		64.9	40-140	11.5	30	
Dalapon [2C]	228	62	µg/Kg wet	311		73.4	40-140	11.9	30	
Dicamba	11.2	2.5	µg/Kg wet	12.4		90.2	40-140	2.74	30	
Dicamba [2C]	16.9	2.5	µg/Kg wet	12.4		136	40-140	4.03	30	V-06

Surrogate: 2,4-Dichlorophenylacetic acid 81.4 µg/Kg wet 99.5 81.8 30-150

Surrogate: 2,4-Dichlorophenylacetic acid [2C] 92.9 µg/Kg wet 99.5 93.3 30-150

**Batch B066899 - SW-846 3510C**
**Blank (B066899-BLK1)**

Prepared: 01/30/13 Analyzed: 01/31/13

2,4-D	ND	0.50	µg/L							
2,4-D [2C]	ND	0.50	µg/L							
2,4,5-TP (Silvex)	ND	0.050	µg/L							
2,4,5-TP (Silvex) [2C]	ND	0.050	µg/L							
2,4,5-T	ND	0.10	µg/L							V-05
2,4,5-T [2C]	ND	0.10	µg/L							



**QUALITY CONTROL**
**Herbicides by GC/ECD - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B066899 - SW-846 3510C</b>										
<b>Blank (B066899-BLK1)</b>										
				Prepared: 01/30/13 Analyzed: 01/31/13						
Dalapon	ND	1.2	µg/L							
Dalapon [2C]	ND	1.2	µg/L							
Dicamba	ND	0.050	µg/L							
Dicamba [2C]	ND	0.050	µg/L							
Surrogate: 2,4-Dichlorophenylacetic acid	1.13		µg/L	2.00		56.5	30-150			
Surrogate: 2,4-Dichlorophenylacetic acid [2C]	1.31		µg/L	2.00		65.5	30-150			
<b>LCS (B066899-BS1)</b>										
				Prepared: 01/30/13 Analyzed: 01/31/13						
2,4-D	1.76	0.50	µg/L	2.50		70.6	40-140			
2,4-D [2C]	2.27	0.50	µg/L	2.50		90.9	40-140			
2,4,5-TP (Silvex)	0.196	0.050	µg/L	0.250		78.2	40-140			
2,4,5-TP (Silvex) [2C]	0.235	0.050	µg/L	0.250		93.9	40-140			V-06
2,4,5-T	0.172	0.10	µg/L	0.250		68.7	40-140			V-05
2,4,5-T [2C]	0.238	0.10	µg/L	0.250		95.1	40-140			V-06
Dalapon	3.27	1.2	µg/L	6.25		52.2	40-140			
Dalapon [2C]	3.70	1.2	µg/L	6.25		59.2	40-140			
Dicamba	0.237	0.050	µg/L	0.250		95.0	40-140			
Dicamba [2C]	0.265	0.050	µg/L	0.250		106	40-140			V-06
Surrogate: 2,4-Dichlorophenylacetic acid	1.53		µg/L	2.00		76.6	30-150			
Surrogate: 2,4-Dichlorophenylacetic acid [2C]	1.70		µg/L	2.00		84.8	30-150			
<b>LCS Dup (B066899-BSD1)</b>										
				Prepared: 01/30/13 Analyzed: 01/31/13						
2,4-D	2.01	0.50	µg/L	2.50		80.4	40-140	13.0	30	
2,4-D [2C]	2.58	0.50	µg/L	2.50		103	40-140	12.6	30	
2,4,5-TP (Silvex)	0.208	0.050	µg/L	0.250		83.2	40-140	6.13	30	
2,4,5-TP (Silvex) [2C]	0.262	0.050	µg/L	0.250		105	40-140	10.9	30	V-06
2,4,5-T	0.201	0.10	µg/L	0.250		80.4	40-140	15.7	30	V-05
2,4,5-T [2C]	0.273	0.10	µg/L	0.250		109	40-140	13.8	30	V-06
Dalapon	3.23	1.2	µg/L	6.25		51.6	40-140	1.18	30	
Dalapon [2C]	3.72	1.2	µg/L	6.25		59.5	40-140	0.509	30	
Dicamba	0.279	0.050	µg/L	0.250		112	40-140	16.0	30	
Dicamba [2C]	0.294	0.050	µg/L	0.250		117	40-140	10.4	30	V-06
Surrogate: 2,4-Dichlorophenylacetic acid	1.65		µg/L	2.00		82.3	30-150			
Surrogate: 2,4-Dichlorophenylacetic acid [2C]	1.80		µg/L	2.00		89.8	30-150			



**QUALITY CONTROL**
**Petroleum Hydrocarbons Analyses - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B066810 - SW-846 3510C</b>										
<b>Blank (B066810-BLK1)</b>				Prepared: 01/28/13 Analyzed: 01/29/13						
CT ETPH	ND	0.075	mg/L							
Surrogate: o-Terphenyl	0.0907		mg/L	0.100		90.7	50-150			
<b>LCS (B066810-BS1)</b>				Prepared: 01/28/13 Analyzed: 01/29/13						
CT ETPH	0.922	0.075	mg/L	1.00		92.2	60-120			
Surrogate: o-Terphenyl	0.0869		mg/L	0.100		86.9	50-150			
<b>LCS Dup (B066810-BSD1)</b>				Prepared: 01/28/13 Analyzed: 01/29/13						
CT ETPH	0.896	0.075	mg/L	1.00		89.6	60-120	2.85	30	
Surrogate: o-Terphenyl	0.0867		mg/L	0.100		86.7	50-150			
<b>Batch B066822 - SW-846 3546</b>										
<b>Blank (B066822-BLK1)</b>				Prepared: 01/29/13 Analyzed: 01/30/13						
CT ETPH	ND	10	mg/Kg wet							
Surrogate: o-Terphenyl	2.43		mg/Kg wet	3.33		73.0	50-150			
<b>Matrix Spike (B066822-MS1)</b>				<b>Source: 13A0643-17</b>		Prepared: 01/29/13 Analyzed: 01/30/13				
CT ETPH	81.4	12	mg/Kg dry	40.1	55.4	64.8	50-150			
Surrogate: o-Terphenyl	2.71		mg/Kg dry	4.01		67.5	50-150			
<b>Batch B066883 - SW-846 3546</b>										
<b>Blank (B066883-BLK1)</b>				Prepared: 01/29/13 Analyzed: 01/31/13						
CT ETPH	ND	10	mg/Kg wet							
Surrogate: o-Terphenyl	2.63		mg/Kg wet	3.33		78.8	50-150			
<b>LCS (B066883-BS1)</b>				Prepared: 01/29/13 Analyzed: 01/31/13						
CT ETPH	27.8	10	mg/Kg wet	33.3		83.5	60-120			
Surrogate: o-Terphenyl	2.55		mg/Kg wet	3.33		76.6	50-150			
<b>LCS Dup (B066883-BSD1)</b>				Prepared: 01/29/13 Analyzed: 01/31/13						
CT ETPH	27.9	10	mg/Kg wet	33.3		83.7	60-120	0.134	30	
Surrogate: o-Terphenyl	2.58		mg/Kg wet	3.33		77.4	50-150			
<b>Batch B066931 - SW-846 3546</b>										
<b>Blank (B066931-BLK1)</b>				Prepared: 01/30/13 Analyzed: 01/31/13						
CT ETPH	ND	10	mg/Kg wet							
Surrogate: o-Terphenyl	2.48		mg/Kg wet	3.33		74.4	50-150			



**QUALITY CONTROL**
**Petroleum Hydrocarbons Analyses - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B066931 - SW-846 3546</b>										
<b>LCS (B066931-BS1)</b>					Prepared: 01/30/13 Analyzed: 01/31/13					
CT ETPH	24.5	10	mg/Kg wet	33.3		73.5	60-120			
Surrogate: o-Terphenyl	2.21		mg/Kg wet	3.33		66.2	50-150			
<b>LCS Dup (B066931-BSD1)</b>					Prepared: 01/30/13 Analyzed: 01/31/13					
CT ETPH	25.7	10	mg/Kg wet	33.3		77.0	60-120	4.73	30	
Surrogate: o-Terphenyl	2.31		mg/Kg wet	3.33		69.2	50-150			
<b>Batch B066988 - SW-846 3546</b>										
<b>Blank (B066988-BLK1)</b>					Prepared: 01/31/13 Analyzed: 02/01/13					
CT ETPH	ND	10	mg/Kg wet							
Surrogate: o-Terphenyl	2.36		mg/Kg wet	3.33		70.8	50-150			
<b>LCS (B066988-BS1)</b>					Prepared: 01/31/13 Analyzed: 02/01/13					
CT ETPH	27.5	10	mg/Kg wet	33.3		82.5	60-120			
Surrogate: o-Terphenyl	2.49		mg/Kg wet	3.33		74.6	50-150			
<b>LCS Dup (B066988-BSD1)</b>					Prepared: 01/31/13 Analyzed: 02/01/13					
CT ETPH	26.1	10	mg/Kg wet	33.3		78.3	60-120	5.24	30	
Surrogate: o-Terphenyl	2.37		mg/Kg wet	3.33		71.2	50-150			



**QUALITY CONTROL**
**Metals Analyses (Total) - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B066738 - SW-846 3050B**
**Blank (B066738-BLK1)**

Prepared: 01/25/13 Analyzed: 01/29/13

Arsenic	ND	2.5	mg/Kg wet							
Barium	ND	2.5	mg/Kg wet							
Cadmium	ND	0.25	mg/Kg wet							
Chromium	ND	0.50	mg/Kg wet							
Copper	ND	0.50	mg/Kg wet							
Lead	ND	0.75	mg/Kg wet							
Nickel	ND	0.50	mg/Kg wet							
Selenium	ND	5.0	mg/Kg wet							
Silver	ND	0.50	mg/Kg wet							
Zinc	ND	1.0	mg/Kg wet							

**LCS (B066738-BS1)**

Prepared: 01/25/13 Analyzed: 01/29/13

Arsenic	101	5.0	mg/Kg wet	94.5		107	82.2-117.5			
Barium	175	5.0	mg/Kg wet	166		105	83.1-116.3			
Cadmium	58.8	0.50	mg/Kg wet	59.9		98.2	84-115.9			
Chromium	74.0	1.0	mg/Kg wet	69.3		107	81.4-118.6			
Copper	82.9	1.0	mg/Kg wet	78.0		106	83.7-116.2			
Lead	93.3	1.5	mg/Kg wet	91.7		102	82.4-117.8			
Nickel	59.4	1.0	mg/Kg wet	56.6		105	82.2-117.8			
Selenium	167	10	mg/Kg wet	159		105	79.2-120.8			
Silver	35.0	1.0	mg/Kg wet	33.9		103	66.4-133.9			
Zinc	141	2.0	mg/Kg wet	137		103	81-119			

**LCS Dup (B066738-BSD1)**

Prepared: 01/25/13 Analyzed: 01/29/13

Arsenic	102	5.0	mg/Kg wet	94.5		108	82.2-117.5	0.885	30	
Barium	179	5.0	mg/Kg wet	166		108	83.1-116.3	2.59	30	
Cadmium	59.0	0.50	mg/Kg wet	59.9		98.6	84-115.9	0.427	30	
Chromium	75.7	1.0	mg/Kg wet	69.3		109	81.4-118.6	2.22	30	
Copper	84.1	1.0	mg/Kg wet	78.0		108	83.7-116.2	1.46	30	
Lead	92.4	1.5	mg/Kg wet	91.7		101	82.4-117.8	1.01	30	
Nickel	60.2	1.0	mg/Kg wet	56.6		106	82.2-117.8	1.33	30	
Selenium	167	10	mg/Kg wet	159		105	79.2-120.8	0.400	30	
Silver	35.9	1.0	mg/Kg wet	33.9		106	66.4-133.9	2.53	30	
Zinc	142	2.0	mg/Kg wet	137		104	81-119	0.500	30	

**Duplicate (B066738-DUP1)**
**Source: 13A0643-02**

Prepared: 01/25/13 Analyzed: 01/29/13

Arsenic	ND	3.1	mg/Kg dry		ND		NC	35		
Barium	65.0	3.1	mg/Kg dry		66.8		2.62	35		
Cadmium	0.449	0.31	mg/Kg dry		0.384		15.6	35		
Chromium	23.1	0.62	mg/Kg dry		23.1		0.0187	35		
Copper	11.8	0.62	mg/Kg dry		22.3		<b>61.4</b> *	35		R-02
Lead	25.8	0.93	mg/Kg dry		21.1		19.9	35		
Nickel	11.6	0.62	mg/Kg dry		11.3		2.58	35		
Selenium	ND	6.2	mg/Kg dry		ND		NC	35		
Silver	ND	0.62	mg/Kg dry		ND		NC	35		
Zinc	35.9	1.2	mg/Kg dry		36.8		2.60	35		



**QUALITY CONTROL**
**Metals Analyses (Total) - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B066738 - SW-846 3050B**
**MRL Check (B066738-MRL1)**

Prepared: 01/25/13 Analyzed: 01/29/13

Lead	0.835	0.74	mg/Kg wet	0.736		114	80-120			
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**Matrix Spike (B066738-MS1)**
**Source: 13A0643-02**

Prepared: 01/25/13 Analyzed: 01/29/13

Arsenic	33.8	3.3	mg/Kg dry	32.5	ND	104	75-125			
Barium	105	3.3	mg/Kg dry	32.5	66.8	117	75-125			
Cadmium	30.5	0.33	mg/Kg dry	32.5	0.384	92.6	75-125			
Chromium	61.3	0.65	mg/Kg dry	32.5	23.1	117	75-125			
<b>Copper</b>	44.1	0.65	mg/Kg dry	32.5	22.3	<b>67.1</b> *	75-125			MS-07
Lead	61.8	0.98	mg/Kg dry	32.5	21.1	125	75-125			
Nickel	45.1	0.65	mg/Kg dry	32.5	11.3	104	75-125			
Selenium	24.7	6.5	mg/Kg dry	32.5	ND	75.8	75-125			
Silver	31.7	0.65	mg/Kg dry	32.5	ND	97.3	75-125			
Zinc	70.2	1.3	mg/Kg dry	32.5	36.8	103	75-125			

**Batch B066739 - SW-846 3050B**
**Blank (B066739-BLK1)**

Prepared: 01/25/13 Analyzed: 01/30/13

Lead	ND	0.75	mg/Kg wet							
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**LCS (B066739-BS1)**

Prepared: 01/25/13 Analyzed: 01/30/13

Lead	80.6	1.5	mg/Kg wet	91.7		87.9	82.4-117.8			
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**LCS Dup (B066739-BSD1)**

Prepared: 01/25/13 Analyzed: 01/30/13

Lead	81.2	1.5	mg/Kg wet	91.7		88.6	82.4-117.8	0.807	30	
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**MRL Check (B066739-MRL1)**

Prepared: 01/25/13 Analyzed: 01/30/13

Lead	0.574	0.72	mg/Kg wet	0.724		<b>79.4</b> *	80-120			M-12
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**Batch B066741 - SW-846 3005A**
**Blank (B066741-BLK1)**

Prepared: 01/25/13 Analyzed: 01/28/13

Arsenic	ND	2.0	µg/L							
Barium	ND	50	µg/L							
Cadmium	ND	2.5	µg/L							
Chromium	ND	5.0	µg/L							
Copper	ND	25	µg/L							
Lead	ND	5.0	µg/L							
Nickel	ND	25	µg/L							
Selenium	ND	25	µg/L							
Silver	ND	2.5	µg/L							
Zinc	ND	50	µg/L							



**QUALITY CONTROL**
**Metals Analyses (Total) - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B066741 - SW-846 3005A**
**LCS (B066741-BS1)**

Prepared: 01/25/13 Analyzed: 01/28/13

Arsenic	248	2.0	µg/L	250		99.0	80-120			
Barium	246	50	µg/L	250		98.6	80-120			
Cadmium	247	2.5	µg/L	250		98.8	80-120			
Chromium	253	5.0	µg/L	250		101	80-120			
Copper	254	25	µg/L	250		101	80-120			
Lead	255	5.0	µg/L	250		102	80-120			
Nickel	254	25	µg/L	250		102	80-120			
Selenium	247	25	µg/L	250		98.9	80-120			
Silver	259	2.5	µg/L	250		104	80-120			
Zinc	255	50	µg/L	250		102	80-120			

**LCS Dup (B066741-BSD1)**

Prepared: 01/25/13 Analyzed: 01/28/13

Arsenic	246	2.0	µg/L	250		98.3	80-120	0.727	20	
Barium	244	50	µg/L	250		97.6	80-120	1.04	20	
Cadmium	247	2.5	µg/L	250		98.6	80-120	0.207	20	
Chromium	257	5.0	µg/L	250		103	80-120	1.51	20	
Copper	255	25	µg/L	250		102	80-120	0.658	20	
Lead	254	5.0	µg/L	250		102	80-120	0.365	20	
Nickel	258	25	µg/L	250		103	80-120	1.64	20	
Selenium	247	25	µg/L	250		98.8	80-120	0.147	20	
Silver	255	2.5	µg/L	250		102	80-120	1.34	20	
Zinc	254	50	µg/L	250		101	80-120	0.568	20	

**Duplicate (B066741-DUP1)**

Source: 13A0643-56

Prepared: 01/25/13 Analyzed: 01/28/13

Arsenic	ND	2.0	µg/L		ND			NC	20	
Barium	ND	50	µg/L		ND			NC	20	
Cadmium	ND	2.5	µg/L		ND			NC	20	
Chromium	ND	5.0	µg/L		ND			NC	20	
Copper	ND	25	µg/L		ND			NC	20	
Lead	ND	5.0	µg/L		ND			NC	20	
Nickel	ND	25	µg/L		ND			NC	20	
Selenium	ND	25	µg/L		ND			NC	20	
Silver	ND	2.5	µg/L		ND			NC	20	
Zinc	ND	50	µg/L		ND			NC	20	

**Matrix Spike (B066741-MS1)**

Source: 13A0643-56

Prepared: 01/25/13 Analyzed: 01/28/13

Arsenic	247	2.0	µg/L	250	ND	98.7	75-125			
Barium	245	50	µg/L	250	ND	98.0	75-125			
Cadmium	248	2.5	µg/L	250	ND	99.1	75-125			
Chromium	262	5.0	µg/L	250	ND	105	75-125			
Copper	258	25	µg/L	250	ND	103	75-125			
Lead	259	5.0	µg/L	250	ND	103	75-125			
Nickel	262	25	µg/L	250	1.50	104	75-125			
Selenium	249	25	µg/L	250	ND	99.5	75-125			
Silver	265	2.5	µg/L	250	ND	106	75-125			
Zinc	253	50	µg/L	250	ND	101	75-125			



**QUALITY CONTROL**
**Metals Analyses (Total) - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B066743 - SW-846 7471</b>										
<b>Blank (B066743-BLK1)</b>				Prepared: 01/25/13 Analyzed: 01/29/13						
Mercury	ND	0.025	mg/Kg wet							
<b>LCS (B066743-BS1)</b>				Prepared: 01/25/13 Analyzed: 01/29/13						
Mercury	3.38	0.33	mg/Kg wet	3.73		90.6	71.7-128.3			
<b>LCS Dup (B066743-BSD1)</b>				Prepared: 01/25/13 Analyzed: 01/29/13						
Mercury	2.91	0.33	mg/Kg wet	3.73		78.0	71.7-128.3	15.0	30	
<b>Duplicate (B066743-DUP1)</b>				<b>Source: 13A0643-26</b>		Prepared: 01/25/13 Analyzed: 01/29/13				
Mercury	0.0504	0.030	mg/Kg dry		0.0566			11.7	35	
<b>Matrix Spike (B066743-MS1)</b>				<b>Source: 13A0643-26</b>		Prepared: 01/25/13 Analyzed: 01/29/13				
Mercury	0.228	0.029	mg/Kg dry	0.193	0.0566	89.0	75-125			
<b>Batch B066744 - SW-846 7471</b>										
<b>Blank (B066744-BLK1)</b>				Prepared: 01/25/13 Analyzed: 01/29/13						
Mercury	ND	0.025	mg/Kg wet							
<b>LCS (B066744-BS1)</b>				Prepared: 01/25/13 Analyzed: 01/29/13						
Mercury	3.86	0.33	mg/Kg wet	3.73		103	71.7-128.3			
<b>LCS Dup (B066744-BSD1)</b>				Prepared: 01/25/13 Analyzed: 01/29/13						
Mercury	4.55	0.33	mg/Kg wet	3.73		122	71.7-128.3	16.6	30	
<b>Batch B066804 - SW-846 3005A</b>										
<b>Blank (B066804-BLK1)</b>				Prepared & Analyzed: 01/29/13						
Arsenic	ND	2.0	µg/L							
Barium	ND	50	µg/L							
Cadmium	ND	2.5	µg/L							
Chromium	ND	5.0	µg/L							
Copper	ND	25	µg/L							
Lead	ND	5.0	µg/L							
Nickel	ND	25	µg/L							
Selenium	ND	25	µg/L							
Silver	ND	2.5	µg/L							
Zinc	ND	50	µg/L							
<b>LCS (B066804-BS1)</b>				Prepared & Analyzed: 01/29/13						
Arsenic	242	2.0	µg/L	250		96.6	80-120			
Barium	241	50	µg/L	250		96.5	80-120			
Cadmium	242	2.5	µg/L	250		96.7	80-120			
Chromium	265	5.0	µg/L	250		106	80-120			
Copper	259	25	µg/L	250		104	80-120			
Lead	254	5.0	µg/L	250		102	80-120			
Nickel	256	25	µg/L	250		102	80-120			
Selenium	245	25	µg/L	250		97.9	80-120			
Silver	258	2.5	µg/L	250		103	80-120			
Zinc	257	50	µg/L	250		103	80-120			



**QUALITY CONTROL**
**Metals Analyses (Total) - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B066804 - SW-846 3005A</b>										
<b>LCS Dup (B066804-BSD1)</b>				Prepared & Analyzed: 01/29/13						
Arsenic	240	2.0	µg/L	250		96.0	80-120	0.683	20	
Barium	233	50	µg/L	250		93.1	80-120	3.60	20	
Cadmium	239	2.5	µg/L	250		95.4	80-120	1.36	20	
Chromium	257	5.0	µg/L	250		103	80-120	2.90	20	
Copper	259	25	µg/L	250		104	80-120	0.127	20	
Lead	245	5.0	µg/L	250		98.1	80-120	3.61	20	
Nickel	254	25	µg/L	250		101	80-120	0.931	20	
Selenium	241	25	µg/L	250		96.6	80-120	1.33	20	
Silver	254	2.5	µg/L	250		102	80-120	1.52	20	
Zinc	257	50	µg/L	250		103	80-120	0.378	20	
<b>Batch B066890 - SW-846 7470A Prep</b>										
<b>Blank (B066890-BLK1)</b>				Prepared & Analyzed: 01/30/13						
Mercury	ND	0.00010	mg/L							
<b>LCS (B066890-BS1)</b>				Prepared & Analyzed: 01/30/13						
Mercury	0.00194	0.00010	mg/L	0.00200		97.0	80-120			
<b>LCS Dup (B066890-BSD1)</b>				Prepared & Analyzed: 01/30/13						
Mercury	0.00192	0.00010	mg/L	0.00200		96.0	80-120	1.06	20	
<b>Duplicate (B066890-DUP1)</b>				Prepared & Analyzed: 01/30/13						
Mercury	ND	0.00010	mg/L		ND			NC	20	
<b>Matrix Spike (B066890-MS1)</b>				Prepared & Analyzed: 01/30/13						
Mercury	0.00193	0.00010	mg/L	0.00200	ND	96.3	75-125			



**QUALITY CONTROL**

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B066881 - % Solids**

**Duplicate (B066881-DUP2)**

**Source: 13A0643-02**

Prepared: 01/29/13 Analyzed: 01/30/13

% Solids	75.9		% Wt		76.4			0.657	20	
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## BREAKDOWN REPORT

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**Lab Sample ID:** S003775-PEM1 **Analyzed:** 01/28/2013

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**Column Number:** 1

Analyte	% Breakdown
4,4'-DDT [1]	1.52
Endrin [1]	2.95

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**Column Number:** 2

Analyte	% Breakdown
4,4'-DDT [2]	1.75
Endrin [2]	2.70

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## BREAKDOWN REPORT

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**Lab Sample ID:** S003775-PEM2 **Analyzed:** 01/28/2013

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**Column Number:** 1

Analyte	% Breakdown
4,4'-DDT [1]	1.37
Endrin [1]	3.06

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**Column Number:** 2

Analyte	% Breakdown
4,4'-DDT [2]	1.62
Endrin [2]	2.84

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## BREAKDOWN REPORT

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**Lab Sample ID:** S003782-PEM1 **Analyzed:** 01/29/2013

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**Column Number:** 1

Analyte	% Breakdown
4,4'-DDT [1]	2.38
Endrin [1]	2.78

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## BREAKDOWN REPORT

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Lab Sample ID: S003782-PEM1 Analyzed: 01/29/2013

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Column Number: 2

Analyte	% Breakdown
4,4'-DDT [2]	2.62
Endrin [2]	2.11

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## BREAKDOWN REPORT

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Lab Sample ID: S003782-PEM2 Analyzed: 01/29/2013

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Column Number: 1

Analyte	% Breakdown
4,4'-DDT [1]	2.72
Endrin [1]	3.09

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Column Number: 2

Analyte	% Breakdown
4,4'-DDT [2]	3.05
Endrin [2]	2.83

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## BREAKDOWN REPORT

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Lab Sample ID: S003788-PEM1 Analyzed: 01/30/2013

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Column Number: 1

Analyte	% Breakdown
4,4'-DDT [1]	0.16
Endrin [1]	1.61

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Column Number: 2

Analyte	% Breakdown
4,4'-DDT [2]	0.12
Endrin [2]	1.09

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## BREAKDOWN REPORT



BREAKDOWN REPORT

Lab Sample ID: S003788-PEM2 Analyzed: 01/30/2013

Column Number: 1

Analyte	% Breakdown
4,4'-DDT [1]	0.35
Endrin [1]	1.51

Column Number: 2

Analyte	% Breakdown
4,4'-DDT [2]	0.14
Endrin [2]	1.57



# FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
DL-03	Elevated reporting limit due to matrix.
E	Reported result is estimated. Value reported over verified calibration range.
L-01	Laboratory fortified blank /laboratory control sample recovery outside of control limits. Data validation is not affected since all results are "not detected" for all samples in this batch for this compound and bias is on the high side.
L-02	Laboratory fortified blank/laboratory control sample recovery and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high side.
L-07	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.
M-12	The reporting limit verification for the AIHA lead program is outside of control limits for this element. Any reported result at or near the detection limit may be biased on the low side.
MS-07	Matrix spike recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possibility of sample matrix effects that lead to low bias for reported result or non-homogeneous sample aliquot cannot be eliminated.
MS-07A	Matrix spike and spike duplicate recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possibility of matrix effects that lead to low bias or non-homogeneous sample aliquot cannot be eliminated.
MS-09	Matrix spike recovery and matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a low bias for reported result or non-homogeneous sample aliquots cannot be eliminated.
PR-03	Sample preserved in the laboratory, not in the field as required by the method.
R-02	Duplicate RPD is outside of control limits. Outlier can be attributed to sample non-homogeneity encountered during sample prep.
R-06	Matrix spike duplicate RPD is outside of control limits. Reduced precision is anticipated for reported result for this compound in this sample.
S-01	The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.
S-19	Surrogate recovery is outside of control limits, matrix interference suspected. Reanalysis yielded similar surrogate non-conformance.
V-05	Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.
V-06	Continuing calibration did not meet method specifications and was biased on the high side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the high side.
V-16	Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.
V-17	Internal standard area <50% of associated calibration standard internal standard area.
V-20	Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.



# CERTIFICATIONS

## Certified Analyses included in this Report

Analyte	Certifications
<b>CTDEP ETPH in Soil</b>	
CT ETPH	CT
<b>CTDEP ETPH in Water</b>	
CT ETPH	CT
<b>SW-846 6010C in Soil</b>	
Arsenic	CT,NH,NY,ME,NC,VA
Barium	CT,NH,NY,ME,NC,VA
Cadmium	CT,NH,NY,ME,NC,VA
Chromium	CT,NH,NY,ME,NC,VA
Copper	CT,NH,NY,ME,NC,VA
Lead	CT,NH,NY,AIHA,ME,NC,VA
Nickel	CT,NH,NY,ME,NC,VA
Selenium	CT,NH,NY,ME,NC,VA
Silver	CT,NH,NY,ME,NC,VA
Zinc	CT,NH,NY,ME,NC,VA
<b>SW-846 6020A in Water</b>	
Arsenic	CT,NH,NY,RI,NC,ME,VA
Barium	CT,NH,NY,RI,NC,ME,VA
Cadmium	CT,NH,NY,RI,NC,ME,VA
Chromium	CT,NH,NY,RI,NC,ME,VA
Copper	CT,NH,NY,RI,NC,ME,VA
Lead	CT,NH,NY,RI,NC,ME,VA
Nickel	CT,NH,NY,RI,NC,ME,VA
Selenium	CT,NH,NY,RI,NC,ME,VA
Silver	CT,NH,NY,RI,NC,ME,VA
Zinc	CT,NH,NY,RI,NC,ME,VA
<b>SW-846 7470A in Water</b>	
Mercury	CT,NH,NY,RI,NC,ME,VA
<b>SW-846 7471B in Soil</b>	
Mercury	CT,NH,NY,NC,ME,VA
<b>SW-846 8081B in Soil</b>	
Alachlor	NC
Alachlor [2C]	NC
Aldrin	CT,NH,NY,ME,NC,VA
Aldrin [2C]	CT,NH,NY,ME,NC,VA
alpha-BHC	CT,NH,NY,ME,NC,VA
alpha-BHC [2C]	CT,NH,NY,ME,NC,VA
beta-BHC	CT,NH,NY,ME,NC,VA
beta-BHC [2C]	CT,NH,NY,ME,NC,VA
delta-BHC	CT,NH,NY,ME,NC,VA
delta-BHC [2C]	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane)	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane) [2C]	CT,NH,NY,ME,NC,VA
Chlordane	CT,NH,NY,ME,NC,VA
Chlordane [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDD	CT,NH,NY,ME,NC,VA



**CERTIFICATIONS**
**Certified Analyses included in this Report**

Analyte	Certifications
<b><i>SW-846 8081B in Soil</i></b>	
4,4'-DDD [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDE	CT,NH,NY,ME,NC,VA
4,4'-DDE [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDT	CT,NH,NY,ME,NC,VA
4,4'-DDT [2C]	CT,NH,NY,ME,NC,VA
Dieldrin	CT,NH,NY,ME,NC,VA
Dieldrin [2C]	CT,NH,NY,ME,NC,VA
Endosulfan I	CT,NH,NY,ME,NC,VA
Endosulfan I [2C]	CT,NH,NY,ME,NC,VA
Endosulfan II	CT,NH,NY,ME,NC,VA
Endosulfan II [2C]	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate [2C]	CT,NH,NY,ME,NC,VA
Endrin	CT,NH,NY,ME,NC,VA
Endrin [2C]	CT,NH,NY,ME,NC,VA
Endrin Aldehyde	CT,NH,NY,ME,NC,VA
Endrin Aldehyde [2C]	CT,NH,NY,ME,NC,VA
Endrin Ketone	NC
Endrin Ketone [2C]	NC
Heptachlor	CT,NH,NY,ME,NC,VA
Heptachlor [2C]	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide [2C]	CT,NH,NY,ME,NC,VA
Hexachlorobenzene	NC
Hexachlorobenzene [2C]	NC
Methoxychlor	CT,NH,NY,ME,NC,VA
Methoxychlor [2C]	CT,NH,NY,ME,NC,VA
Toxaphene	CT,NH,NY,ME,NC,VA
Toxaphene [2C]	CT,NH,NY,ME,NC,VA
<b><i>SW-846 8081B in Water</i></b>	
Alachlor	NC
Alachlor [2C]	NC
Aldrin	CT,NH,NY,RI,ME,NC,VA
Aldrin [2C]	CT,NH,NY,RI,ME,NC,VA
alpha-BHC	CT,NH,NY,RI,ME,NC,VA
alpha-BHC [2C]	CT,NH,NY,RI,ME,NC,VA
beta-BHC	CT,NH,NY,RI,ME,NC,VA
beta-BHC [2C]	CT,NH,NY,RI,ME,NC,VA
delta-BHC	CT,NH,NY,RI,ME,NC,VA
delta-BHC [2C]	CT,NH,NY,RI,ME,NC,VA
gamma-BHC (Lindane)	CT,NH,NY,RI,ME,NC,VA
gamma-BHC (Lindane) [2C]	CT,NH,NY,RI,ME,NC,VA
Chlordane	CT,NH,NY,RI,ME,NC,VA
Chlordane [2C]	CT,NH,NY,RI,ME,NC,VA
4,4'-DDD	CT,NH,NY,RI,ME,NC,VA
4,4'-DDD [2C]	CT,NH,NY,RI,ME,NC,VA



# CERTIFICATIONS

## Certified Analyses included in this Report

Analyte	Certifications
<b><i>SW-846 8081B in Water</i></b>	
4,4'-DDE	CT,NH,NY,RI,ME,NC,VA
4,4'-DDE [2C]	CT,NH,NY,RI,ME,NC,VA
4,4'-DDT	CT,NH,NY,RI,ME,NC,VA
4,4'-DDT [2C]	CT,NH,NY,RI,ME,NC,VA
Dieldrin	CT,NH,NY,RI,ME,NC,VA
Dieldrin [2C]	CT,NH,NY,RI,ME,NC,VA
Endosulfan I	CT,NH,NY,RI,ME,NC,VA
Endosulfan I [2C]	CT,NH,NY,RI,ME,NC,VA
Endosulfan II	CT,NH,NY,RI,ME,NC,VA
Endosulfan II [2C]	CT,NH,NY,RI,ME,NC,VA
Endosulfan Sulfate	CT,NH,NY,RI,ME,NC,VA
Endosulfan Sulfate [2C]	CT,NH,NY,RI,ME,NC,VA
Endrin	CT,NH,NY,RI,ME,NC,VA
Endrin [2C]	CT,NH,NY,RI,ME,NC,VA
Endrin Aldehyde	CT,NH,NY,RI,ME,NC,VA
Endrin Aldehyde [2C]	CT,NH,NY,RI,ME,NC,VA
Endrin Ketone	NC
Endrin Ketone [2C]	NC
Heptachlor	CT,NH,NY,RI,ME,NC,VA
Heptachlor [2C]	CT,NH,NY,RI,ME,NC,VA
Heptachlor Epoxide	CT,NH,NY,RI,ME,NC,VA
Heptachlor Epoxide [2C]	CT,NH,NY,RI,ME,NC,VA
Hexachlorobenzene	NC
Hexachlorobenzene [2C]	NC
Methoxychlor	CT,NH,NY,RI,ME,NC,VA
Methoxychlor [2C]	CT,NH,NY,RI,ME,NC,VA
Toxaphene	CT,NH,NY,RI,ME,NC,VA
Toxaphene [2C]	CT,NH,NY,RI,ME,NC,VA
<b><i>SW-846 8082A in Soil</i></b>	
Aroclor-1016	CT,NH,NY,NC,ME,VA
Aroclor-1016 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1221	CT,NH,NY,NC,ME,VA
Aroclor-1221 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1232	CT,NH,NY,NC,ME,VA
Aroclor-1232 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1242	CT,NH,NY,NC,ME,VA
Aroclor-1242 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1248	CT,NH,NY,NC,ME,VA
Aroclor-1248 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1254	CT,NH,NY,NC,ME,VA
Aroclor-1254 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1260	CT,NH,NY,NC,ME,VA
Aroclor-1260 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1262	NC
Aroclor-1262 [2C]	NC
Aroclor-1268	NC



# CERTIFICATIONS

## Certified Analyses included in this Report

Analyte	Certifications
<b>SW-846 8082A in Soil</b>	
Aroclor-1268 [2C]	NC
<b>SW-846 8082A in Water</b>	
Aroclor-1016	CT,NH,NY,RI,NC,ME,VA
Aroclor-1016 [2C]	CT,NH,NY,RI,NC,ME,VA
Aroclor-1221	CT,NH,NY,RI,NC,ME,VA
Aroclor-1221 [2C]	CT,NH,NY,RI,NC,ME,VA
Aroclor-1232	CT,NH,NY,RI,NC,ME,VA
Aroclor-1232 [2C]	CT,NH,NY,RI,NC,ME,VA
Aroclor-1242	CT,NH,NY,RI,NC,ME,VA
Aroclor-1242 [2C]	CT,NH,NY,RI,NC,ME,VA
Aroclor-1248	CT,NH,NY,RI,NC,ME,VA
Aroclor-1248 [2C]	CT,NH,NY,RI,NC,ME,VA
Aroclor-1254	CT,NH,NY,RI,NC,ME,VA
Aroclor-1254 [2C]	CT,NH,NY,RI,NC,ME,VA
Aroclor-1260	CT,NH,NY,RI,NC,ME,VA
Aroclor-1260 [2C]	CT,NH,NY,RI,NC,ME,VA
Aroclor-1262	NC
Aroclor-1262 [2C]	NC
Aroclor-1268	NC
Aroclor-1268 [2C]	NC
<b>SW-846 8260C in Soil</b>	
Acetone	CT,NH,NY,ME
Acetone	CT,NH,NY,ME
Acetone	CT,NH,NY,ME
Acrylonitrile	CT,NH,NY,ME
Acrylonitrile	CT,NH,NY,ME
Acrylonitrile	CT,NH,NY,ME
Benzene	CT,NH,NY,ME
Benzene	CT,NH,NY,ME
Benzene	CT,NH,NY,ME
Bromobenzene	NH,NY,ME
Bromobenzene	NH,NY,ME
Bromobenzene	NH,NY,ME
Bromodichloromethane	CT,NH,NY,ME
Bromodichloromethane	CT,NH,NY,ME
Bromodichloromethane	CT,NH,NY,ME
Bromoform	CT,NH,NY,ME
Bromoform	CT,NH,NY,ME
Bromoform	CT,NH,NY,ME
Bromomethane	CT,NH,NY,ME
Bromomethane	CT,NH,NY,ME
Bromomethane	CT,NH,NY,ME
2-Butanone (MEK)	CT,NH,NY,ME
2-Butanone (MEK)	CT,NH,NY,ME
2-Butanone (MEK)	CT,NH,NY,ME
n-Butylbenzene	CT,NH,NY,ME



# CERTIFICATIONS

## Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260C in Soil</i>	
n-Butylbenzene	CT,NH,NY,ME
n-Butylbenzene	CT,NH,NY,ME
sec-Butylbenzene	CT,NH,NY,ME
sec-Butylbenzene	CT,NH,NY,ME
sec-Butylbenzene	CT,NH,NY,ME
tert-Butylbenzene	CT,NH,NY,ME
tert-Butylbenzene	CT,NH,NY,ME
tert-Butylbenzene	CT,NH,NY,ME
Carbon Disulfide	CT,NH,NY,ME
Carbon Disulfide	CT,NH,NY,ME
Carbon Disulfide	CT,NH,NY,ME
Carbon Tetrachloride	CT,NH,NY,ME
Carbon Tetrachloride	CT,NH,NY,ME
Carbon Tetrachloride	CT,NH,NY,ME
Chlorobenzene	CT,NH,NY,ME
Chlorobenzene	CT,NH,NY,ME
Chlorobenzene	CT,NH,NY,ME
Chlorodibromomethane	CT,NH,NY,ME
Chlorodibromomethane	CT,NH,NY,ME
Chlorodibromomethane	CT,NH,NY,ME
Chloroethane	CT,NH,NY,ME
Chloroethane	CT,NH,NY,ME
Chloroethane	CT,NH,NY,ME
Chloroform	CT,NH,NY,ME
Chloroform	CT,NH,NY,ME
Chloroform	CT,NH,NY,ME
Chloromethane	CT,NH,NY,ME
Chloromethane	CT,NH,NY,ME
Chloromethane	CT,NH,NY,ME
2-Chlorotoluene	CT,NH,NY,ME
2-Chlorotoluene	CT,NH,NY,ME
2-Chlorotoluene	CT,NH,NY,ME
4-Chlorotoluene	CT,NH,NY,ME
4-Chlorotoluene	CT,NH,NY,ME
4-Chlorotoluene	CT,NH,NY,ME
Dibromomethane	NH,NY,ME
Dibromomethane	NH,NY,ME
Dibromomethane	NH,NY,ME
1,2-Dichlorobenzene	CT,NH,NY,ME
1,2-Dichlorobenzene	CT,NH,NY,ME
1,2-Dichlorobenzene	CT,NH,NY,ME
1,3-Dichlorobenzene	CT,NH,NY,ME
1,3-Dichlorobenzene	CT,NH,NY,ME
1,3-Dichlorobenzene	CT,NH,NY,ME
1,4-Dichlorobenzene	CT,NH,NY,ME
1,4-Dichlorobenzene	CT,NH,NY,ME
1,4-Dichlorobenzene	CT,NH,NY,ME



# CERTIFICATIONS

## Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260C in Soil</i>	
Dichlorodifluoromethane (Freon 12)	NY,ME
Dichlorodifluoromethane (Freon 12)	NY,ME
Dichlorodifluoromethane (Freon 12)	NY,ME
1,1-Dichloroethane	CT,NH,NY,ME
1,1-Dichloroethane	CT,NH,NY,ME
1,1-Dichloroethane	CT,NH,NY,ME
1,2-Dichloroethane	CT,NH,NY,ME
1,2-Dichloroethane	CT,NH,NY,ME
1,2-Dichloroethane	CT,NH,NY,ME
1,1-Dichloroethylene	CT,NH,NY,ME
1,1-Dichloroethylene	CT,NH,NY,ME
1,1-Dichloroethylene	CT,NH,NY,ME
cis-1,2-Dichloroethylene	CT,NH,NY,ME
cis-1,2-Dichloroethylene	CT,NH,NY,ME
cis-1,2-Dichloroethylene	CT,NH,NY,ME
trans-1,2-Dichloroethylene	CT,NH,NY,ME
trans-1,2-Dichloroethylene	CT,NH,NY,ME
trans-1,2-Dichloroethylene	CT,NH,NY,ME
1,2-Dichloropropane	CT,NH,NY,ME
1,2-Dichloropropane	CT,NH,NY,ME
1,2-Dichloropropane	CT,NH,NY,ME
1,3-Dichloropropane	NH,NY,ME
1,3-Dichloropropane	NH,NY,ME
1,3-Dichloropropane	NH,NY,ME
2,2-Dichloropropane	NH,NY,ME
2,2-Dichloropropane	NH,NY,ME
2,2-Dichloropropane	NH,NY,ME
1,1-Dichloropropene	NH,NY,ME
1,1-Dichloropropene	NH,NY,ME
1,1-Dichloropropene	NH,NY,ME
cis-1,3-Dichloropropene	CT,NH,NY,ME
cis-1,3-Dichloropropene	CT,NH,NY,ME
cis-1,3-Dichloropropene	CT,NH,NY,ME
trans-1,3-Dichloropropene	CT,NH,NY,ME
trans-1,3-Dichloropropene	CT,NH,NY,ME
trans-1,3-Dichloropropene	CT,NH,NY,ME
Ethylbenzene	CT,NH,NY,ME
Ethylbenzene	CT,NH,NY,ME
Ethylbenzene	CT,NH,NY,ME
Hexachlorobutadiene	NH,NY,ME
Hexachlorobutadiene	NH,NY,ME
Hexachlorobutadiene	NH,NY,ME
2-Hexanone (MBK)	CT,NH,NY,ME
2-Hexanone (MBK)	CT,NH,NY,ME
2-Hexanone (MBK)	CT,NH,NY,ME
Isopropylbenzene (Cumene)	CT,NH,NY,ME
Isopropylbenzene (Cumene)	CT,NH,NY,ME



# CERTIFICATIONS

## Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260C in Soil</i>	
Isopropylbenzene (Cumene)	CT,NH,NY,ME
p-Isopropyltoluene (p-Cymene)	NH,NY
p-Isopropyltoluene (p-Cymene)	NH,NY
p-Isopropyltoluene (p-Cymene)	NH,NY
Methyl tert-Butyl Ether (MTBE)	NY
Methyl tert-Butyl Ether (MTBE)	NY
Methyl tert-Butyl Ether (MTBE)	NY
Methylene Chloride	CT,NH,NY,ME
Methylene Chloride	CT,NH,NY,ME
Methylene Chloride	CT,NH,NY,ME
4-Methyl-2-pentanone (MIBK)	CT,NH,NY
4-Methyl-2-pentanone (MIBK)	CT,NH,NY
4-Methyl-2-pentanone (MIBK)	CT,NH,NY
Naphthalene	NH,NY,ME
Naphthalene	NH,NY,ME
Naphthalene	NH,NY,ME
n-Propylbenzene	NH,NY
n-Propylbenzene	NH,NY
n-Propylbenzene	NH,NY
Styrene	CT,NH,NY,ME
Styrene	CT,NH,NY,ME
Styrene	CT,NH,NY,ME
1,1,1,2-Tetrachloroethane	CT,NH,NY,ME
1,1,1,2-Tetrachloroethane	CT,NH,NY,ME
1,1,1,2-Tetrachloroethane	CT,NH,NY,ME
1,1,2,2-Tetrachloroethane	CT,NH,NY,ME
1,1,2,2-Tetrachloroethane	CT,NH,NY,ME
1,1,2,2-Tetrachloroethane	CT,NH,NY,ME
Tetrachloroethylene	CT,NH,NY,ME
Tetrachloroethylene	CT,NH,NY,ME
Tetrachloroethylene	CT,NH,NY,ME
Toluene	CT,NH,NY,ME
Toluene	CT,NH,NY,ME
Toluene	CT,NH,NY,ME
1,2,4-Trichlorobenzene	NH,NY,ME
1,2,4-Trichlorobenzene	NH,NY,ME
1,2,4-Trichlorobenzene	NH,NY,ME
1,1,1-Trichloroethane	CT,NH,NY,ME
1,1,1-Trichloroethane	CT,NH,NY,ME
1,1,1-Trichloroethane	CT,NH,NY,ME
1,1,2-Trichloroethane	CT,NH,NY,ME
1,1,2-Trichloroethane	CT,NH,NY,ME
1,1,2-Trichloroethane	CT,NH,NY,ME
Trichloroethylene	CT,NH,NY,ME
Trichloroethylene	CT,NH,NY,ME
Trichloroethylene	CT,NH,NY,ME
Trichlorofluoromethane (Freon 11)	CT,NH,NY,ME



# CERTIFICATIONS

## Certified Analyses included in this Report

Analyte	Certifications
<b>SW-846 8260C in Soil</b>	
Trichlorofluoromethane (Freon 11)	CT,NH,NY,ME
Trichlorofluoromethane (Freon 11)	CT,NH,NY,ME
1,2,3-Trichloropropane	NH,NY,ME
1,2,3-Trichloropropane	NH,NY,ME
1,2,3-Trichloropropane	NH,NY,ME
1,2,4-Trimethylbenzene	CT,NH,NY,ME
1,2,4-Trimethylbenzene	CT,NH,NY,ME
1,2,4-Trimethylbenzene	CT,NH,NY,ME
1,3,5-Trimethylbenzene	CT,NH,NY,ME
1,3,5-Trimethylbenzene	CT,NH,NY,ME
1,3,5-Trimethylbenzene	CT,NH,NY,ME
Vinyl Chloride	CT,NH,NY,ME
Vinyl Chloride	CT,NH,NY,ME
Vinyl Chloride	CT,NH,NY,ME
m+p Xylene	CT,NH,NY,ME
m+p Xylene	CT,NH,NY,ME
m+p Xylene	CT,NH,NY,ME
o-Xylene	CT,NH,NY,ME
o-Xylene	CT,NH,NY,ME
o-Xylene	CT,NH,NY,ME
<b>SW-846 8260C in Water</b>	
Acetone	CT,NH,NY,ME
Acrylonitrile	CT,NY,ME,RI
Benzene	CT,NH,NY,ME,RI
Bromodichloromethane	CT,NH,NY,ME,RI
Bromoform	CT,NH,NY,ME,RI
Bromomethane	CT,NH,NY,ME,RI
2-Butanone (MEK)	CT,NH,NY,ME
n-Butylbenzene	NY,ME
sec-Butylbenzene	NY,ME
tert-Butylbenzene	NY,ME
Carbon Disulfide	CT,NH,NY,ME
Carbon Tetrachloride	CT,NH,NY,ME,RI
Chlorobenzene	CT,NH,NY,ME,RI
Chlorodibromomethane	CT,NH,NY,ME,RI
Chloroethane	CT,NH,NY,ME,RI
Chloroform	CT,NH,NY,ME,RI
Chloromethane	CT,NH,NY,ME,RI
2-Chlorotoluene	NY,ME
4-Chlorotoluene	NY,ME
Dibromomethane	NH,NY,ME
1,2-Dichlorobenzene	CT,NY,ME,RI
1,3-Dichlorobenzene	CT,NH,NY,ME,RI
1,4-Dichlorobenzene	CT,NH,NY,ME,RI
trans-1,4-Dichloro-2-butene	NH,NY,ME
Dichlorodifluoromethane (Freon 12)	NH,NY,ME,RI



# CERTIFICATIONS

## Certified Analyses included in this Report

Analyte	Certifications
<b>SW-846 8260C in Water</b>	
1,1-Dichloroethane	CT,NH,NY,ME,RI
1,2-Dichloroethane	CT,NH,NY,ME,RI
1,1-Dichloroethylene	CT,NH,NY,ME,RI
cis-1,2-Dichloroethylene	NY,ME
trans-1,2-Dichloroethylene	CT,NH,NY,ME,RI
1,2-Dichloropropane	CT,NH,NY,ME,RI
1,3-Dichloropropane	NY,ME
2,2-Dichloropropane	NH,NY,ME
1,1-Dichloropropene	NH,NY,ME
cis-1,3-Dichloropropene	CT,NH,NY,ME,RI
trans-1,3-Dichloropropene	CT,NH,NY,ME,RI
Ethylbenzene	CT,NH,NY,ME,RI
Hexachlorobutadiene	CT,NH,NY,ME
2-Hexanone (MBK)	CT,NH,NY,ME
Isopropylbenzene (Cumene)	NY,ME
p-Isopropyltoluene (p-Cymene)	CT,NH,NY,ME
Methyl tert-Butyl Ether (MTBE)	CT,NH,NY,ME
Methylene Chloride	CT,NH,NY,ME,RI
4-Methyl-2-pentanone (MIBK)	CT,NH,NY,ME
Naphthalene	NH,NY,ME
n-Propylbenzene	CT,NH,NY,ME
Styrene	CT,NH,NY,ME
1,1,1,2-Tetrachloroethane	CT,NH,NY,ME
1,1,2,2-Tetrachloroethane	CT,NH,NY,ME,RI
Tetrachloroethylene	CT,NH,NY,ME,RI
Toluene	CT,NH,NY,ME,RI
1,2,3-Trichlorobenzene	NH,NY,ME
1,2,4-Trichlorobenzene	CT,NH,NY,ME
1,1,1-Trichloroethane	CT,NH,NY,ME,RI
1,1,2-Trichloroethane	CT,NH,NY,ME,RI
Trichloroethylene	CT,NH,NY,ME,RI
Trichlorofluoromethane (Freon 11)	CT,NH,NY,ME,RI
1,2,3-Trichloropropane	NH,NY,ME
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	NY
1,2,4-Trimethylbenzene	NY,ME
1,3,5-Trimethylbenzene	NY,ME
Vinyl Chloride	CT,NH,NY,ME,RI
m+p Xylene	CT,NH,NY,ME,RI
o-Xylene	CT,NH,NY,ME,RI
<b>SW-846 8270D in Soil</b>	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA



# CERTIFICATIONS

## Certified Analyses included in this Report

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

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

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



CON TEST

2100067



SPECTRA ANALYTICAL INC.  
Framingham  
MA 01424

# CHAIN OF CUSTODY RECORD

Page 1 of 6

## Special Handling:

- ☒ Standard TAT - 7 to 10 business days
- ☐ Rush TAT - Date Needed: \_\_\_\_\_
- ☐ All TATs subject to laboratory approval
- ☐ Min. 24-hour notification needed for rushes
- ☐ Samples disposed of after 60 days unless otherwise instructed

Report To: Dave Scott

Louise Engineering Assoc

100 Montross St

Plainville CT 06062

Telephone # 860-747-0151

Project Mgr: D. Scott

1=Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub> 2=HCl 3=H<sub>2</sub>SO<sub>4</sub> 4=HNO<sub>3</sub> 5=NaOH 6=Ascorbic Acid 7=CH<sub>3</sub>OH

8=NaHSO<sub>3</sub> 9=Deionized Water 10=Zn D<sub>12</sub> 11=Na<sub>2</sub>SO<sub>4</sub> 12=

DW=Drinking Water GW=Groundwater WW=Wastewater

O=Oil SW=Surface Water SO=Soil SL=Sludge A=Air

X1= X2= X3=

O=Grab C=Composite

Invoice To: SPRUE  
P.O. No.: RQN

Project No.: 18-HM301  
Site Name: CR DECED Lysic 240 Qul Street Rd  
Location: Lysic State: CT  
Samplest: K. Volkert J. Mercante

List preservative code below:  
☐ 10 ☐ 01 ☐ 02 ☐ 03 ☐ 04 ☐ 05 ☐ 06 ☐ 07 ☐ 08 ☐ 09 ☐ 10

Analyses:  
☒ VOC 8260  
☒ HOLD  
☒ SEMI VOLATILES  
☒ CT ETH  
☒ PCBs METALS  
☒ CM 2, 3, 4  
☒ PCBs B0032  
☒ RESIDUES B0031  
☒ LEAD ONLY  
☐ State specific reporting standards.

Lab Id	Sample Id	Date	Time	Type	Matrix	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Temp °C	Analysis	Notes
1	1273837	1-24-13	0940	G	SO	3	1	1	1	X	VOC 8260	
2	1273791		1445	G	SO	1	1	1	1	X	SEM VOLATILES	
3	1273790		1430	G	SO	1	1	1	1	X	CT ETH	
4	1273789		1415	G	SO	1	1	1	1	X	PCBs METALS	
5	1273788		1400	G	SO	1	1	1	1	X	CM 2, 3, 4	
6	1273787		1359	G	SO	1	1	1	1	X	PCBs B0032	
7	1273786		1352	G	SO	1	1	1	1	X	RESIDUES B0031	
8	1273785		1345	G	SO	1	1	1	1	X	LEAD ONLY	
9	1273784		1335	G	SO	1	1	1	1	X	State specific reporting standards.	
10	1273783	1-24-13	1313	G	SO	3	2	1	1	X		

Requisitioned by:

Received by:

Date:

Time:

Temp °C

☒ EDD Format LEA EDD

☒ E-mail to dsconfig@larsa.com

☐ Ambient ☐ Ice ☐ Refrigerated ☐ Freeze temp \_\_\_\_\_ °C



0000-1551



# CHAIN OF CUSTODY RECORD

Page 2 of 6

## Special Handling:

- ☒ Standard TAT - 7 to 10 business days
- ☐ Rush TAT - Date Needed:
- ☐ All TATs subject to laboratory approval.
- ☐ Min. 24-hour notification needed for rushes.
- ☐ Samples disposed of after 60 days unless otherwise instructed.

Report To: David Scott LEA

100 Northwest Drive  
Plainville CT 06062

Telephone #: 860-747-6181

Project Mgr: D. Scott

Invoice To: PRIME

P.O. No.: 5

RQS: TCE

Project No.: 16HM301

Site Name: CT DEC0 Mystic 2400A15

Location: Mystic State: CT

Sampler(s): K. Volkert J. Macerone

List preservative code below:

## Analyses:

QA/QC Reporting Notes:  
\* additional charges may apply  
MA DEP MCP CAA Report: Yes ☐ No ☐  
CT DEP RCP Report: Yes ☐ No ☐  
QA/QC Reporting Level:  
☐ Standard ☐ No QC ☐ DQA\*  
☐ NY ASP A+ ☐ NY ASP B+  
☐ NY Reduced\* ☐ NY Full\*  
☐ TIER IV\* ☐ TIER IV\*

O=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Temp
1270649	127334620	1-24-13	1300	G	So	3	2			
12	127334606		1138	G	So	3	1			
13	127334607		1138	G	So	3	1			
14	127334605		1135	G	So	3	1			
15	127334604		1122	G	So	1				
16	127334603		1113	G	So	1				
17	127334602		1108	G	So	1				
18	127334601		1105	G	So	1				
19	12733441		0950	G	So	1				
20	12733442	1-24-13	0955	G	So	1				

Relinquished by:

Received by:

Date:

Time:

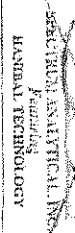
Temp:

Condition upon receipt:  
☐ Sealed ☐ Leaked ☐ Refrigerated ☐ Dry Ice Frozen ☐ Solid Ice Frozen

E-mail to: doscott@loureco



CON-12547



# CHAIN OF CUSTODY RECORD

Page 3 of 6

**Special Handling:**  
☒ Standard TAT - 48 to 10 business days  
☐ Rush TAT - Date Needed:  
All TATs subject to laboratory approval.  
Min. 24-hour notification needed for rushes.  
Samples disposed of after 60 days unless otherwise instructed.

Report To: Dave Scott LEA  
100 Abbeystown Drive  
Plainville CT 06062

Invoice To: S. N. V.

Project No.: 15HAM301

Site Name: CT DECID MYSTIC 2400 Del St Rd

Location: Mystic State: CT

Sampler(s): K. Volkert J. Mercatorio

Telephone #: 860-347-6151

P.O. No.:  RQN:

Project Mgr: D. Scott

1=Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>, 2=HCl 3=H<sub>2</sub>SO<sub>4</sub> 4=HNO<sub>3</sub> 5=NaOH 6=Ascorbic Acid 7=CH<sub>3</sub>OH  
8=NaHSO<sub>4</sub> 9=Deionized Water 10=H<sub>3</sub>PO<sub>4</sub> 11=2,2-D, 1,1-Me<sub>2</sub>OH 12=ICE

DW=Drinking Water GW=Groundwater WY=Wastewater  
O=Oil SW=Surface Water SD=Soil SL=Sludge A=Air  
X1= X2= X3=

List preservative code below:

Analyses:

QA/QC Reporting Notes:  
\* additional charges may apply  
MA DEP MCP CAL Report: Yes ☐ No ☒  
CT DEP RCP Report: Yes ☒ No ☐  
QA/QC Reporting Level:  
☐ Standard ☐ No QC ☐ DOA\*  
☐ NY ASP A\* ☐ NY ASP B\*  
☐ N/Reduced\* ☐ N/Full\*  
☐ TIER II\* ☐ TIER IV\*  
Other:   
State-specific reporting standards:

G=Grab C=Composite

Lab Id.	Sample Id.	Date	Time	Type	Matrix	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Temp	Condition report receipt:
21	1233943	1-24-13	1000	G	So	1				X	<input type="checkbox"/> A. Label <input type="checkbox"/> K. Label <input type="checkbox"/> P. Followed <input type="checkbox"/> DI VOA Frozen <input type="checkbox"/> Soil Bag Frozen
22	1233944		1008	G	So	2				X	
23	1233945		1009	G	So	3				X	
24	1233946		1013	G	So	3				X	
25	1233947		1015	G	So	3				X	
26	1233948		1020	G	So	3				X	
27	1233949		1021	G	So	3				X	
28	1233950		1124	G	So	3				X	
29	1233951		1133	G	So	3				X	
30	1233952	1-24-13	1137	G	So	3				X	

Relinquished by: [Signature]

Received by: [Signature]

Date: 1-24-2013

Time: 1:04

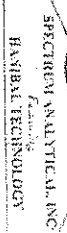
Temp: 6.0

Condition report receipt: LEA EDP

E-mail to: dasscath@plareira.com



NON-TEST



# CHAIN OF CUSTODY RECORD

Page 4 of 6

**Special Handling:**  
☒ Standard TAT - 5 to 14 business days  
☐ Rush TAT - Date Needed: \_\_\_\_\_  
All TATs subject to laboratory approval.  
Min. 24-hour notification needed for rushes.  
Samples disposed of after 60 days unless otherwise instructed.

Report To: Dan Smith

Invoice To: \_\_\_\_\_

Project No: 18H1301

Louise C. Grogan, Assoc.  
100 Worcester St. D-2  
Dorchester, CT 06032

Site Name: CT Dept. Ags. 240 Gail St. 1st

Telephone #: 860-747-6018

Location: Ag. 1 State: CT

Project Mgr: D. Smith

P.O. No: \_\_\_\_\_

R.O.N: \_\_\_\_\_

Sampler(s): K. Walker J. McCarty

1=NaHSO<sub>2</sub>, 2=HCl 3=H<sub>2</sub>SO<sub>4</sub> 4=HNO<sub>3</sub> 5=NaOH 6=Ascorbic Acid 7=CH<sub>3</sub>OH

List preservative code below:

QA/QC Reporting Notes:  
\* additional charges may apply

8=NaHSO<sub>4</sub>, 9=Deionized Water 10=2% D<sub>11</sub> H<sub>2</sub>CH<sub>3</sub> 11=TCE

PH<sub>1</sub>

Analyses:

QA/QC Reporting Level  
☐ Standard ☐ No QC ☐ DOA  
☐ 1st ASP ☐ 2nd ASP ☐ 3rd ASP  
☐ 1st Reduced ☐ 2nd Reduced ☐ 3rd Reduced  
☐ TIER IV ☐ TIER V

DW=Drinking Water GW=Groundwater WW=Wastewater  
O=Oil SW=Surface Water SO=Soil SL=Sludge A=Air

PH<sub>1</sub>

Analyses:

QA/QC Reporting Level  
☐ Standard ☐ No QC ☐ DOA  
☐ 1st ASP ☐ 2nd ASP ☐ 3rd ASP  
☐ 1st Reduced ☐ 2nd Reduced ☐ 3rd Reduced  
☐ TIER IV ☐ TIER V

G=Grab C=Composite

Lab Id.	Sample Id.	Date	Time	Type	Matrix	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Temp °C	Remarks
31	1233353	1-24-13	1142	G	SO	3	2				
32	1233354		1154	G	SO	3	2				
33	1233355		1154	G	SO	3	2				
34	1233356		1212	G	SO	3	2				
35	1233357		1218	G	SO	3	2				
36	1233358		1226	G	SO	3	2				
37	1233359		1235	G	SO	3	2				
38	1233360		1237	G	SO	3	2				
39	1233368		1340	G	SO	3	2				
40	1233369	1-24-13	1347	G	SO	3	2				

Relinquished by: \_\_\_\_\_

Received by: \_\_\_\_\_

Date: \_\_\_\_\_

Time: \_\_\_\_\_

Temp °C

EDD Form: LEA EDD

E-mail to: dnscroth@liverpool.com

☐ Ambient ☐ Cool ☐ Refrigerated ☐ Freeze (temp) \_\_\_\_\_ °C ☐ Freeze (temp) \_\_\_\_\_ °C



100-1354



# CHAIN OF CUSTODY RECORD

Page 5 of 6

**Special Handling:**  
☒ Standard TAT - 3 to 10 business days  
☐ Rush TAT - Date Needed: \_\_\_\_\_  
 All TATs subject to laboratory approval.  
 Min. 24-hour notification needed for residues.  
 Samples disposed of after 60 days unless otherwise instructed.

Report To: Dave Scott  
 LORRICE ENGINEERING ASSOC  
 100 North West Drive  
 Plainville CT 06062

Invoice To: SA ME

Project No.: 18HM301

Telephone #: 860-743-6181

P.O. No.: \_\_\_\_\_

Site Name: CT DECID MYSTIC 2400 Al School Rd

Project Mgr: D. Scott

Location: MYSTIC State: CT

Sampled by: K. Volpert / J. MacCarrone

1=Na<sub>2</sub>S<sub>2</sub>O<sub>8</sub> 2=HCl 3=H<sub>2</sub>SO<sub>4</sub> 4=HNO<sub>3</sub> 5=NaOH 6=Ascorbic Acid 7=CH<sub>3</sub>OH  
 8=NaHSO<sub>4</sub> 9=Distilled Water 10=2.0% H<sub>2</sub>O<sub>2</sub> 11=JCE  
 DW=Drinking Water GW=Groundwater WW=Wastewater  
 O=Oil SW=Surface Water SO=Soil SL=Sludge A=Air  
 X1= X2= X3=

List preservative code below:  
 Q=QC Reporting Notes:  
 \* additional charges may apply  
 MA DEF ACP CALI Report Yes ☐ No ☐  
 CT DPH REP Report Yes ☐ No ☐  
 Q=QC Reporting Level  
☐ Standard ☐ NaOH ☐ DPA  
☐ NY ASP A\* ☐ NY ASP B\*  
☐ NJ Reduced\* ☐ NJ TSP  
☐ THER II\* ☐ THER V\*
☐ Other: \_\_\_\_\_  
 State-specific reporting standards:

Lab Id	Sample Id	Date	Time	Type	Matrix	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Temp °C	EDD Form	EDD LEA
411	1233710	1-24-13	1358	G	So	3	2			X		
412	1233731		1403			3	2			X		
413	1233772		1410			3	2			X		
414	1233773		1413			3	2			X		
415	1233774		1435			3	2			X		
416	1233775		1438			3	2			X		
417	1233776		1440			3	2			X		
418	1233777		1449			3	2			X		
419	1233778		1451			3	2			X		
420	1233779	1-24-13	1502	G	So	3	2			X		

Relinquished by: \_\_\_\_\_

Received by: \_\_\_\_\_

Date: \_\_\_\_\_

Time: \_\_\_\_\_

EDD Form EDD LEA

E-mail to: dmscott@lorrice.com

☐ A-basis ☐ lead ☐ Residue used ☐ Further temp \_\_\_\_\_ °C ☐ Freezer temp \_\_\_\_\_ °C



SPECTROM ANALYTICAL, INC.  
BASAL TECHNOLOGY

# CHAIN OF CUSTODY RECORD

Page 6 of 6

Special Handling  
Standard TAT - 30 business days  
Rush TAT - Date Needed: \_\_\_\_\_  
All TATs subject to laboratory approval.  
Min. 24-hour notification needed for rushes.  
Samples disposed of after 60 days unless otherwise instructed.

Report To: State of MA

Invoice To: \_\_\_\_\_

Project No: MA DEP C&I Report Yes

Site Name: CLARK ROAD

Location: MA DEP

State: MA

P.O. No: \_\_\_\_\_

RQN: \_\_\_\_\_

Sample(s): 1

List preservative code below:

QA/QC Reporting Notes:  
\* additional charges may apply

Telephone #: \_\_\_\_\_  
Project Mgr: \_\_\_\_\_  
1=Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>, 2=HCl, 3=H<sub>2</sub>SO<sub>4</sub>, 4=HNO<sub>3</sub>, 5=NaOH, 6=Ascorbic Acid, 7=CH<sub>3</sub>OH  
8=NaHSO<sub>4</sub>, 9=Deionized Water, 10=2.0% DI, 11=TCE  
DW=Drinking Water, GW=Groundwater, WW=Wastewater  
O=Oil, SW=Surface Water, SO=Soil, SL=Sludge, A=Air  
X1= \_\_\_\_\_ X2= \_\_\_\_\_ X3= \_\_\_\_\_

Containers:

Analytes:

MA DEP C&I Report Yes/No  
CT DEH RCT Report Yes/No

G=Grab C=C Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Temp °C
---------	------------	-------	-------	------	--------	----------------	------------------	------------------	--------------	---------

41	1233380	1-24-13	1502	G	SO	3	2			
42	1233381	1-24-13	1505	G	SO	3	1			
43	1233382	1-24-13	1510	G	SO	3	1			
44	1233383	1-24-13	1520	G	SO	3	1			
45	1233385	1-24-13	1530	G	GW	3	5			
46	1233385	1-24-13	1530	G	GW	3	5			
47	1233386	1-24-13	1530	G	GW	3	5			
48	1233386	1-24-13	1530	G	GW	3	5			
49	1233386	1-24-13	1530	G	GW	3	5			
50	1233386	1-24-13	1530	G	GW	3	5			
51	1233386	1-24-13	1530	G	GW	3	5			
52	1233386	1-24-13	1530	G	GW	3	5			
53	1233386	1-24-13	1530	G	GW	3	5			
54	1233386	1-24-13	1530	G	GW	3	5			
55	1233386	1-24-13	1530	G	GW	3	5			
56	1233386	1-24-13	1530	G	GW	3	5			
57	1233386	1-24-13	1530	G	GW	3	5			
58	1233386	1-24-13	1530	G	GW	3	5			
59	1233386	1-24-13	1530	G	GW	3	5			
60	1233386	1-24-13	1530	G	GW	3	5			
61	1233386	1-24-13	1530	G	GW	3	5			
62	1233386	1-24-13	1530	G	GW	3	5			
63	1233386	1-24-13	1530	G	GW	3	5			
64	1233386	1-24-13	1530	G	GW	3	5			
65	1233386	1-24-13	1530	G	GW	3	5			
66	1233386	1-24-13	1530	G	GW	3	5			
67	1233386	1-24-13	1530	G	GW	3	5			
68	1233386	1-24-13	1530	G	GW	3	5			
69	1233386	1-24-13	1530	G	GW	3	5			
70	1233386	1-24-13	1530	G	GW	3	5			
71	1233386	1-24-13	1530	G	GW	3	5			
72	1233386	1-24-13	1530	G	GW	3	5			
73	1233386	1-24-13	1530	G	GW	3	5			
74	1233386	1-24-13	1530	G	GW	3	5			
75	1233386	1-24-13	1530	G	GW	3	5			
76	1233386	1-24-13	1530	G	GW	3	5			
77	1233386	1-24-13	1530	G	GW	3	5			
78	1233386	1-24-13	1530	G	GW	3	5			
79	1233386	1-24-13	1530	G	GW	3	5			
80	1233386	1-24-13	1530	G	GW	3	5			
81	1233386	1-24-13	1530	G	GW	3	5			
82	1233386	1-24-13	1530	G	GW	3	5			
83	1233386	1-24-13	1530	G	GW	3	5			
84	1233386	1-24-13	1530	G	GW	3	5			
85	1233386	1-24-13	1530	G	GW	3	5			
86	1233386	1-24-13	1530	G	GW	3	5			
87	1233386	1-24-13	1530	G	GW	3	5			
88	1233386	1-24-13	1530	G	GW	3	5			
89	1233386	1-24-13	1530	G	GW	3	5			
90	1233386	1-24-13	1530	G	GW	3	5			
91	1233386	1-24-13	1530	G	GW	3	5			
92	1233386	1-24-13	1530	G	GW	3	5			
93	1233386	1-24-13	1530	G	GW	3	5			
94	1233386	1-24-13	1530	G	GW	3	5			
95	1233386	1-24-13	1530	G	GW	3	5			
96	1233386	1-24-13	1530	G	GW	3	5			
97	1233386	1-24-13	1530	G	GW	3	5			
98	1233386	1-24-13	1530	G	GW	3	5			
99	1233386	1-24-13	1530	G	GW	3	5			
100	1233386	1-24-13	1530	G	GW	3	5			

Relinquished by: \_\_\_\_\_

Received by: \_\_\_\_\_

Date: \_\_\_\_\_

Time: \_\_\_\_\_

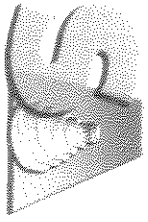
Temp °C

EDD Form 101A EDD

E-mail to: doscott@clareco.com

MA DEP C&I Report Yes/No  
CT DEH RCT Report Yes/No  
QA/QC Reporting Level  
□ Sealed □ No QC □ DQ\*  
□ NY ASP A\* □ NY ASP B\*  
□ NY Reduced\* □ NY Full\*  
□ TIER II\* □ TIER V\*  
State-specific reporting standards:  
□ Other: \_\_\_\_\_  
MA DEP C&I Report Yes/No  
CT DEH RCT Report Yes/No  
QA/QC Reporting Level  
□ Sealed □ No QC □ DQ\*  
□ NY ASP A\* □ NY ASP B\*  
□ NY Reduced\* □ NY Full\*  
□ TIER II\* □ TIER V\*  
State-specific reporting standards:  
□ Other: \_\_\_\_\_





SPECTRUM ANALYTICAL, INC.  
Featuring  
HAMBAL TECHNOLOGY

# CHAIN OF CUSTODY RECORD

13A0643

Page 1 of 6

**Special Handling:**  
☒ Standard TAT - 7 to 10 business days  
☐ Rush TAT - Date Needed: \_\_\_\_\_  
 \* All TATs subject to laboratory approval.  
 \* Min. 24-hour notification needed for rushes.  
 \* Samples disposed of after 60 days unless otherwise instructed.

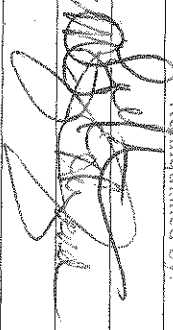
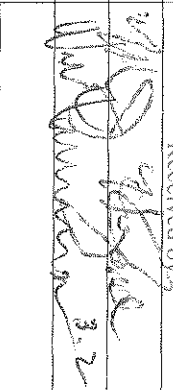
Report To: Dave Scott  
Loreico Engineering Assoc  
100 Montross Drive  
Plainville CT 06062  
 Telephone #: 860-747-6181  
 Project Mgr: D. Scott

Invoice To: \_\_\_\_\_  
SPRUE  
 P.O. No.: \_\_\_\_\_ RQN: \_\_\_\_\_

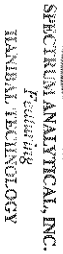
Project No.: 18HM301  
 Site Name: CT DECID Myxic 240 Qal School  
 Location: Myxic State: CT  
 Sampler(s): K. Volker J. Mercantonio

1=Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub> 2=HCl 3=H<sub>2</sub>SO<sub>4</sub> 4=HNO<sub>3</sub> 5=NaOH 6=Ascorbic Acid 7=CH<sub>3</sub>OH  
 8=NaHSO<sub>4</sub> 9=Deionized Water 10= 2x DI 1x MeOH 11= ICE  
 DW=Drinking Water GW=Groundwater WW=Wastewater  
 O=Oil SW=Surface Water SO=Soil SL=Sludge A=Air  
 X1= X2= X3=

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	# of V	# of A	# of C	# of P	VOC	HO	State-specific reporting standards:	
01	1233937	1-24-13	0940	G	SO	3	1			X		<input type="checkbox"/> TIER II* <input type="checkbox"/> TIER V*	
02	1233741		1445	G	SO	1				X			
03	1233740		1426	G	SO	1				X			
04	1233789		1415	G	SO	1				X			
05	1233788		1406	G	SO	1				X			
06	1233787		1359	G	SO	1				X			
07	1233786		1352	G	SO	1				X			
08	1233785		1345	G	SO	1				X		01-24-13 22:25 IN	
09	1233784	↓	1335	G	SO	1				X			
10	1233783	1-24-13	1313	G	SO	3	2			X			
Relinquished by:		Received by:		Date:		Time:		Temp °C		<input checked="" type="checkbox"/> EDD Format <u>LEH EDD</u>			
				1-24-2013		1545		6 ok		<input checked="" type="checkbox"/> E-mail to <u>dscott@loreico.com</u>			
<input type="checkbox"/> Ambient <input type="checkbox"/> Ice <input type="checkbox"/> Refrigerated <input type="checkbox"/> Fridge temp _____ °C <input type="checkbox"/> Freezer temp _____ °C													





3242

Special Handling:

- ☒ Standard TAT - 7 to 10 business days
- ☐ Rush TAT - Date Needed: \_\_\_\_\_
- All TATs subject to laboratory approval.
  - Min. 24-hour notification needed for rushes.
  - Samples disposed of after 60 days unless otherwise instructed.

Page 3 of 6

Report To: Dave Schi EA

Invoice To:

Project No.: 18HN301

Site Name: CT DECAD Mystic 240 Orca Sho

Location: Mushc State: CT

Telephone #: 860-747-6181  
Project Mgr. D. Scott

Doc. No.:

RON

Sampler(s): K. Volkert  
T. Neesebain

1=Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub> 2=HCl 3=H<sub>2</sub>SO<sub>4</sub> 4=HNO<sub>3</sub> 5=NaOH 6=Ascorbic Acid 7=CH<sub>3</sub>OH  
8=NaHSO<sub>4</sub> 9=Deionized Water 10=H<sub>3</sub>PO<sub>4</sub> 11=2*p*-VNAOH 12=IPF

24	12				
List preservative code below:					

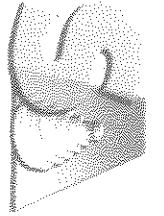
QA/QC Reporting Notes:  
\* additional charges may apply

DW=Drinking Water    GW=Groundwater    WW=Wastewater  
O=Oil    SW=Surface Water    SO=Soil    SL=Sludge    A=Air  
X1=    X2=    X3=

$G = G \circ \sigma$  Composite

G=Grab C=Composite									
Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	# of VOA V	# of Amber	# of Clear G	# of Plastic
21	1233743	1-24-13	1000	G	SO	1			
22	1233744		1008	G	SO	3	2		
23	1233745		1009	G	SO	3	2		
24	1233746		1013	G	SO	3	1		
25	1233747		1015	G	SO	3	1		
26	1233748		1020	G	SO	3	1		
27	1233749		1021	G	SO	3	1		
28	1233750		1127	G	SO	3	2		
29	1233751		1133	G	SO	3	2		
30	1233752	1-24-13	1137	G	SO	3	2		
Relinquished by:		Received by:		Date:	Time:	Temp °C			
<i>[Signature]</i>		<i>[Signature]</i>		1-24-2013	1:05	10			
<i>[Signature]</i>		<i>[Signature]</i>		1/24/13	6:05	6			
<div> <input checked="" type="checkbox"/> EDD Format <u>LEA EDD</u> </div> <div> <input checked="" type="checkbox"/> E-mail to <u>doscoth.clareino.com</u> </div> <div>             Condition upon receipt:             <input type="checkbox"/> Ambient             <input type="checkbox"/> Ice             <input type="checkbox"/> Refrigerated             <input type="checkbox"/> DI VOA Frozen             <input type="checkbox"/> Soil Jar Frozen           </div> <div>             State-specific reporting standards:             <input type="checkbox"/> NY ASP A*             <input type="checkbox"/> NY ASP B*             <input type="checkbox"/> NJ Reduced*             <input type="checkbox"/> NJ Full*             <input type="checkbox"/> TIER II*             <input type="checkbox"/> TIER IV*             <input type="checkbox"/> Other _____           </div>									





SPECTRUM ANALYTICAL, INC.  
Framingham  
HANBIL TECHNOLOGY

# CHAIN OF CUSTODY RECORD

13A0643

Page 5 of 6

## Special Handling:

- ☒ Standard TAT - 7 to 10 business days
- ☐ Rush TAT - Date Needed: \_\_\_\_\_
- ☐ All TATs subject to laboratory approval.
- ☐ Min. 24-hour notification needed for rushes.
- ☐ Samples disposed of after 60 days unless otherwise instructed.

Report To: Dave Scotti

Laurie Engineering Assoc

100 North West Drive

Plainville CT 06062

Telephone #: 860-347-6181

Project Mgr. D. Scotti

Invoice To: \_\_\_\_\_

same

P.O. No.: \_\_\_\_\_

RON: \_\_\_\_\_

Project No.: 18HM301

Site Name: CT DECD Mystic 2400 1st Street

Location: Mystic

State: CT

Sampler(s): K. Valente / J. Mercante

List preservative code below:

10%

Analyses:

1=Na<sub>2</sub>SO<sub>3</sub> 2=HCl 3=H<sub>2</sub>SO<sub>4</sub> 4=HNO<sub>3</sub> 5=NaOH 6=Ascorbic Acid 7=CH<sub>3</sub>OH  
8=NaHSO<sub>4</sub> 9=Deionized Water 10=20% H<sub>2</sub>O<sub>2</sub> 11=Ice  
DW=Drinking Water GW=Groundwater WW=Wastewater  
O=Oil SW=Surface Water SO=Soil SL=Sludge A=Air  
X1= X2= X3=

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Temp °C	Preservative	Analyses	QA/QC Reporting Notes:
---------	------------	-------	-------	------	--------	----------------	------------------	------------------	--------------	---------	--------------	----------	------------------------

41	1233770	1-24-13	1358	G	So	3	2			X			QA/QC Reporting Level
42	1233771		1403			3	2			X			Standard <input type="checkbox"/> No QC <input type="checkbox"/> DOA*
43	1233772		1410			3	2			X			NY ASP A* <input type="checkbox"/> NY ASP B*
44	1233773		1413			3	2			X			NI Reduced* <input type="checkbox"/> NI Full*
45	1233774		1435			3	2			X			TIER II* <input type="checkbox"/> TIER V*
46	1233775		1438			3	2			X			Other _____
47	1233776		1440			3	2			X			State-specific reporting standards:
48	1233777		1449			3	2			X			
49	1233778		1451			3	2			X			
50	1233779	1-24-13	1502	G	So	3	2			X			

Relinquished by: \_\_\_\_\_

Received by: \_\_\_\_\_

Date: \_\_\_\_\_

Time: \_\_\_\_\_

Temp °C

☒ EDD Format EDD LEA

☒ E-mail to dsouth@laurieco.com

[Signature]

W. Valente

1-24-2013

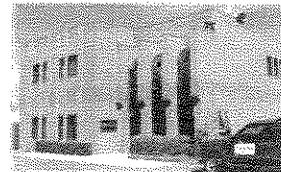
15:43

60

☐ Ambient ☐ Ice ☐ Refrigerated ☐ Fridge temp \_\_\_\_\_ °C ☐ Freezer temp \_\_\_\_\_ °C



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



## Sample Receipt Checklist

CLIENT NAME: PAVE SCOTT RECEIVED BY: W/F DATE: 1-24-13

1) Was the chain(s) of custody relinquished and signed?

2) Does the chain agree with the samples?

If not, explain:

3) Are all the samples in good condition?

If not, explain:

4) How were the samples received:

On Ice ☒ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☒

Were the samples received in Temperature Compliance of (2-6°C)?

Temperature °C by Temp blank \_\_\_\_\_ Temperature °C by Temp gun 3.2

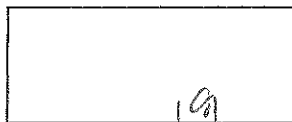
5) Are there Dissolved samples for the lab to filter?

Who was notified \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_

6) Are there any RUSH or SHORT HOLDING TIME samples?

Who was notified \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_

7) Location where samples are stored:



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

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

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

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

### Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber	<u>10</u>	8 oz amber/clear jar	<u>88</u>
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic	<u>2</u>	Plastic Bag / Ziploc	
40 mL Vial - type listed below	<u>60</u>	PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

40 mL vials: # HCl 6 # Methanol 18

Doc# 277 # Bisulfate \_\_\_\_\_ # DI Water 36

Rev. 3 May 2012 # Thiosulfate \_\_\_\_\_ Unpreserved \_\_\_\_\_

Time and Date Frozen:

01-24-13 22:26 IN



**CT ETPH DISCRIMINATION CHECK**

Date Acquired 1/29/13  
Data File Name A0129010.D  
Sample Name ETPH 1500  
Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.23	300330	323946	-7
c - 10	1.58	315692	323946	-3
c - 12	2.31	318179	323946	-2
c - 14	2.98	327673	323946	1
c - 16	3.59	329135	323946	2
c - 18	4.20	338385	323946	4
o-Terphenyl	4.49	390406	323946	
c - 20	4.81	338162	323946	4
c - 22	5.31	338881	323946	5
c - 24	5.75	338249	323946	4
c - 26	6.15	335955	323946	4
c - 28	6.51	328815	323946	2
c - 30	6.84	323139	323946	0
c - 32	7.15	310498	323946	-4
c - 34	7.45	307709	323946	-5
c - 36	7.76	308385	323946	-5

\* One compound allowed %D <= 50%

**Samples**

13A0477-09  
13A0643-55  
13A0643-57



CT ETPH DISCRIMINATION CHECK

Date Acquired 1/30/13  
Data File Name A0130006.D  
Sample Name ETPH 1500  
Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.23	338489	371395	-9
c - 10	1.58	360738	371395	-3
c - 12	2.31	363628	371395	-2
c - 14	2.98	373142	371395	0
c - 16	3.59	374147	371395	1
c - 18	4.20	384920	371395	4
o-Terphenyl	4.49	443302	371395	
c - 20	4.81	385649	371395	4
c - 22	5.31	387718	371395	4
c - 24	5.75	388731	371395	5
c - 26	6.15	387760	371395	4
c - 28	6.51	380953	371395	3
c - 30	6.84	375510	371395	1
c - 32	7.15	360456	371395	-3
c - 34	7.45	355417	371395	-4
c - 36	7.76	353664	371395	-5

\* One compound allowed %D <= 50%

## Samples

13A0643-11  
13A0643-12  
13A0643-13@5X  
13A0643-14@5X  
13A0643-16@5X  
13A0643-18  
13A0643-19@5X  
13A0643-20@20X  
13A0643-21@20X  
13A0643-22@5X



**CT ETPH DISCRIMINATION CHECK**

Date Acquired 1/30/13  
Data File Name A0130007.D  
Sample Name ETPH 1500  
Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.26	301713	329225	-8
c - 10	1.60	322985	329225	-2
c - 12	2.31	329776	329225	0
c - 14	2.97	340147	329225	3
c - 16	3.57	339812	329225	3
c - 18	4.16	346394	329225	5
o-Terphenyl	4.46	391163	329225	
c - 20	4.77	342989	329225	4
c - 22	5.28	340302	329225	3
c - 24	5.71	336860	329225	2
c - 26	6.11	332891	329225	1
c - 28	6.46	326061	329225	-1
c - 30	6.80	323657	329225	-2
c - 32	7.11	315807	329225	-4
c - 34	7.40	317423	329225	-4
c - 36	7.70	321562	329225	-2

\* One compound allowed %D <= 50%

**Samples**

13A0643-20  
13A0643-28  
13A0643-17  
13A0643-24  
13A0643-26@20X



CT ETPH DISCRIMINATION CHECK

Date Acquired 1/30/13  
Data File Name A0130051.D  
Sample Name ETPH 1500  
Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.26	270867	289404	-6
c - 10	1.60	284798	289404	-2
c - 12	2.31	288401	289404	0
c - 14	2.97	296890	289404	3
c - 16	3.57	296675	289404	3
c - 18	4.16	302655	289404	5
o-Terphenyl	4.46	341982	289404	
c - 20	4.77	299709	289404	4
c - 22	5.28	297692	289404	3
c - 24	5.71	294879	289404	2
c - 26	6.11	291573	289404	1
c - 28	6.46	285700	289404	-1
c - 30	6.80	284168	289404	-2
c - 32	7.11	278417	289404	-4
c - 34	7.40	281765	289404	-3
c - 36	7.70	286879	289404	-1

\* One compound allowed %D <= 50%

## Samples

13A0643-44  
13A0643-49  
13A0643-53@20X  
13A0643-46  
13A0653-02  
13A0653-04  
13A0653-06



**CT ETPH DISCRIMINATION CHECK**

Date Acquired 1/31/13  
Data File Name A0131009.D  
Sample Name ETPH 1500  
Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.26	274752	289877	-5
c - 10	1.60	288461	289877	0
c - 12	2.31	291250	289877	0
c - 14	2.97	298478	289877	3
c - 16	3.57	297058	289877	2
c - 18	4.16	301842	289877	4
o-Terphenyl	4.46	339868	289877	
c - 20	4.77	297998	289877	3
c - 22	5.27	295314	289877	2
c - 24	5.71	292405	289877	1
c - 26	6.10	289403	289877	0
c - 28	6.46	284553	289877	-2
c - 30	6.79	284052	289877	-2
c - 32	7.11	279410	289877	-4
c - 34	7.40	283612	289877	-2
c - 36	7.70	289561	289877	0

\* One compound allowed %D <= 50%

Samples

13A0643-52  
13A0753-01@25X



**CT ETPH DISCRIMINATION CHECK**

Date Acquired 1/31/13  
Data File Name A0131028.D  
Sample Name ETPH 1500  
Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	%D +/- 20
c - 9	1.23	291710	322895	-10
c - 10	1.58	306372	322895	-5
c - 12	2.31	309329	322895	-4
c - 14	2.98	319444	322895	-1
c - 16	3.58	322368	322895	0
c - 18	4.19	333677	322895	3
o-Terphenyl	4.49	387974	322895	
c - 20	4.80	336203	322895	4
c - 22	5.31	339873	322895	5
c - 24	5.75	340722	322895	6
c - 26	6.15	338016	322895	5
c - 28	6.51	330822	322895	2
c - 30	6.84	324815	322895	1
c - 32	7.15	315159	322895	-2
c - 34	7.45	315244	322895	-2
c - 36	7.77	319667	322895	-1

\* One compound allowed %D <= 50%

**Samples**

13A0643-37RE1  
13A0643-41RE1  
13A0643-11RE1  
13A0643-24RE1  
13A0643-12RE1  
13A0643-13RE1  
13A0643-14RE1  
13A0643-17RE1  
13A0643-18RE1  
13A0643-39RE1  
13A0643-40RE1

2/1/13 8:32 AM



**CT ETPH DISCRIMINATION CHECK**

Date Acquired 1/31/13  
Data File Name A0131029.D  
Sample Name ETPH 1500  
Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	%%D +/- 20
c - 9	1.26	274466	290593	-6
c - 10	1.60	288939	290593	-1
c - 12	2.31	291847	290593	0
c - 14	2.97	299388	290593	3
c - 16	3.57	297846	290593	2
c - 18	4.16	302604	290593	4
o-Terphenyl	4.46	341106	290593	
c - 20	4.77	298987	290593	3
c - 22	5.27	296204	290593	2
c - 24	5.71	293104	290593	1
c - 26	6.10	290068	290593	0
c - 28	6.46	285150	290593	-2
c - 30	6.80	284745	290593	-2
c - 32	7.11	280220	290593	-4
c - 34	7.40	284699	290593	-2
c - 36	7.70	290624	290593	0

\* One compound allowed %D <= 50%

**Samples**

13A0643-30RE1  
13A0643-34RE1  
13A0643-16RE1@5X  
13A0643-19RE1@5X  
13A0643-20RE1@10X  
13A0643-21RE1@10X  
13A0643-22RE1@5X  
13A0643-26RE1@20X  
13A0643-28RE1





## REASONABLE CONFIDENCE PROTOCOL LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

**Laboratory Name:** Con-Test Analytical Laboratory

**Client:** Loureiro Engineering Associates

**Project Location:** 240 Oral School Road, Mystic, CT

**Project Number:** 13A0643

**Laboratory Sample ID(s):**

13A0643-01 thru 13A0643-57

**Sample Date(s):**

01/24/2013

**List RCP Methods Used:**

CTDEP ETPH, SW-846 6010C, SW-846 6020A, SW-846 7470A, SW-846 7471B, SW-846 8081B, SW-846 8082A, SW-846 8151A, SW-846 8260C, SW-846 8270D

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1A	Were the method specified preservation and holding time requirements met?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
1B	VPH and EPH Methods only: Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3	Were samples received at an appropriate temperature (< 6 degrees C.)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5A	Were reporting limits specified or referenced on the chain-of-custody?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5B	Were these reporting limits met?	<input type="checkbox"/> Yes <input type="checkbox"/> No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence."

This form may not be altered and all questions must be answered.

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

**Authorized Signature:**

**Position:** Laboratory Director

**Printed Name:** Michael A. Erickson

**Date:** 02/01/13

**Name of Laboratory:** Con-Test Analytical Laboratory

**This certification form is to be used for RCP methods only.**



February 1, 2013

David Scotti  
Loureiro Engineering Associates  
100 Northwest Drive  
Plainville, CT 06062

Project Location: 240 Oral School Road, Mystic, CT  
Client Job Number:  
Project Number: 18HM301  
Laboratory Work Order Number: 13A0687

Enclosed are results of analyses for samples received by the laboratory on January 25, 2013. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Lisa A. Worthington  
Project Manager





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

Loureiro Engineering Associates  
100 Northwest Drive  
Plainville, CT 06062  
ATTN: David Scotti

REPORT DATE: 2/1/2013

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 18HM301

#### ANALYTICAL SUMMARY

WORK ORDER NUMBER: 13A0687

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

PROJECT LOCATION: 240 Oral School Road, Mystic, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
1273800	13A0687-01	Soil		CTDEP ETPH SM 2540G SW-846 8081B SW-846 8260C SW-846 8270D	
1273804	13A0687-02	Soil		CTDEP ETPH SM 2540G SW-846 8260C SW-846 8270D	
1273805	13A0687-03	Soil		CTDEP ETPH SM 2540G SW-846 6010C SW-846 7471B SW-846 8081B SW-846 8260C SW-846 8270D	
1273806	13A0687-04	Soil		CTDEP ETPH SM 2540G SW-846 6010C SW-846 7471B SW-846 8260C SW-846 8270D	
1273807	13A0687-05	Soil		CTDEP ETPH SM 2540G SW-846 6010C SW-846 7471B SW-846 8260C SW-846 8270D	
1273808	13A0687-06	Soil		CTDEP ETPH SM 2540G SW-846 6010C SW-846 7471B SW-846 8260C SW-846 8270D	
1273810	13A0687-08	Soil		CTDEP ETPH SM 2540G SW-846 6010C SW-846 7471B SW-846 8260C SW-846 8270D	



Loureiro Engineering Associates  
100 Northwest Drive  
Plainville, CT 06062  
ATTN: David Scotti

REPORT DATE: 2/1/2013

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 18HM301

**ANALYTICAL SUMMARY**

WORK ORDER NUMBER: 13A0687

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

PROJECT LOCATION: 240 Oral School Road, Mystic, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
1273811	13A0687-09	Soil		CTDEP ETPH SM 2540G SW-846 6010C SW-846 7471B SW-846 8081B SW-846 8082A SW-846 8260C SW-846 8270D	
1273812	13A0687-10	Soil		CTDEP ETPH SM 2540G SW-846 6010C SW-846 7471B SW-846 8082A SW-846 8260C SW-846 8270D	
1273813	13A0687-11	Soil		CTDEP ETPH SM 2540G SW-846 6010C SW-846 7471B SW-846 8081B SW-846 8082A SW-846 8260C SW-846 8270D	
1273814	13A0687-12	Soil		CTDEP ETPH SM 2540G SW-846 6010C SW-846 7471B SW-846 8082A SW-846 8260C SW-846 8270D	
1273815	13A0687-13	Soil		CTDEP ETPH SM 2540G SW-846 6010C SW-846 7471B SW-846 8081B SW-846 8082A SW-846 8260C SW-846 8270D	





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

Loureiro Engineering Associates  
100 Northwest Drive  
Plainville, CT 06062  
ATTN: David Scotti

REPORT DATE: 2/1/2013

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 18HM301

#### ANALYTICAL SUMMARY

WORK ORDER NUMBER: 13A0687

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

PROJECT LOCATION: 240 Oral School Road, Mystic, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
1273816	13A0687-14	Soil		CTDEP ETPH SM 2540G SW-846 6010C SW-846 7471B SW-846 8081B SW-846 8082A SW-846 8260C SW-846 8270D	
1273819	13A0687-17	Soil		CTDEP ETPH SM 2540G SW-846 6010C SW-846 7471B SW-846 8082A SW-846 8260C SW-846 8270D	
1273824	13A0687-22	Soil		CTDEP ETPH SM 2540G SW-846 6010C SW-846 7471B SW-846 8081B SW-846 8082A SW-846 8260C SW-846 8270D	
1273828	13A0687-23	Soil		CTDEP ETPH SM 2540G SW-846 6010C SW-846 7471B SW-846 8081B SW-846 8082A SW-846 8260C SW-846 8270D	
1273825	13A0687-24	Soil		CTDEP ETPH SM 2540G SW-846 8270D	
1273826	13A0687-25	Soil		CTDEP ETPH SM 2540G SW-846 8270D	
1273827	13A0687-26	Soil		CTDEP ETPH SM 2540G SW-846 8270D	
1273931	13A0687-27	Trip Blank Soil		SW-846 8270D SW-846 8260C	



Loureiro Engineering Associates  
100 Northwest Drive  
Plainville, CT 06062  
ATTN: David Scotti

REPORT DATE: 2/1/2013

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 18HM301

# ANALYTICAL SUMMARY

WORK ORDER NUMBER: 13A0687

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

PROJECT LOCATION: 240 Oral School Road, Mystic, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
1273934	13A0687-28	Equipment Blank Water		CTDEP ETPH SW-846 8081B SW-846 8082A SW-846 8260C SW-846 8270D	
1273934 UF	13A0687-29	Equipment Blank Water		SW-846 6020A SW-846 7470A	
1273934	13A0687-30	Equipment Blank Water		CTDEP ETPH SW-846 8081B SW-846 8082A SW-846 8260C SW-846 8270D	
1273934 UF	13A0687-31	Equipment Blank Water		SW-846 6020A SW-846 7470A	
1273801	13A0687-38	Soil		CTDEP ETPH SM 2540G SW-846 6010C SW-846 7471B SW-846 8082A SW-846 8270D	
1273802	13A0687-39	Soil		CTDEP ETPH SM 2540G SW-846 6010C SW-846 7471B SW-846 8082A SW-846 8270D	
1273803	13A0687-40	Soil		CTDEP ETPH SM 2540G SW-846 6010C SW-846 7471B SW-846 8082A SW-846 8270D	



#### CASE NARRATIVE SUMMARY

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



**SW-846 6010C****Qualifications:**

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Analyte is found in the associated blank as well as in the sample.

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

13A0687-03[1273805], 13A0687-04[1273806], B066882-BS1, B066882-BSD1, B066882-DUP1, B066882-MS1

---

Data is not affected by elevated level in blank since sample result is >10x level found in the blank.

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

13A0687-03[1273805], 13A0687-04[1273806], B066882-BLK1, B066882-DUP1

---

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:****Lead**

B066868-BS1

---

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

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

13A0687-03[1273805], B066882-MS1

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

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

13A0687-03[1273805], B066882-DUP1

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**SW-846 7470A****Qualifications:**

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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:****Mercury**

B066885-BS1

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**SW-846 7471B****Qualifications:**

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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:****Mercury**

B066885-BS1

---

**SW-846 8081B****Qualifications:**

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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:****Methoxychlor [2C]**

13A0687-01[1273800], B066914-MS1, B066914-MSD1

SW-846 8260C

**Qualifications:**

Laboratory fortified blank /laboratory control sample recovery outside of control limits. Data validation is not affected since all results are "not detected" for all samples in this batch for this compound and bias is on the high side.

**Analyte & Samples(s) Qualified:****Bromomethane, Carbon Tetrachloride**

B066920-BS1, B066927-BS1, B066994-BS1

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

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

13A0687-01[1273800], 13A0687-02[1273804], 13A0687-03[1273805], 13A0687-04[1273806], 13A0687-05[1273807], 13A0687-06[1273808], 13A0687-08[1273810], 13A0687-09[1273811], 13A0687-10[1273812], 13A0687-11[1273813], 13A0687-12[1273814], 13A0687-13[1273815], 13A0687-14[1273816], 13A0687-17[1273819], 13A0687-22[1273824], 13A0687-23[1273828], 13A0687-27[1273931], B066927-BS1, B066927-MS1, B066994-BLK1, B066994-BS1

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

**Analyte & Samples(s) Qualified:****1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene, 2-Butanone (MEK), 2-Hexanone (MBK), Acetone, Dichlorodifluoromethane (Freon 12)**

13A0687-01[1273800], B066927-MS1

Matrix spike 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:****Naphthalene**

13A0687-01[1273800], B066927-MS1

Matrix spike recovery is outside of control limits. Data validation is not affected since sample result is "not detected" and recovery bias is on the high side for this compound.

**Analyte & Samples(s) Qualified:****Methylene Chloride**

B066927-MS1

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

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

13A0687-01[1273800], 13A0687-02[1273804], 13A0687-03[1273805], 13A0687-04[1273806], 13A0687-05[1273807], 13A0687-06[1273808], 13A0687-08[1273810], 13A0687-09[1273811], 13A0687-10[1273812], 13A0687-11[1273813], 13A0687-12[1273814], 13A0687-13[1273815], 13A0687-14[1273816], 13A0687-17[1273819], 13A0687-22[1273824], 13A0687-23[1273828], 13A0687-27[1273931], B066927-BS1, B066927-MS1, B066994-BLK1, B066994-BS1

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

**Analyte & Samples(s) Qualified:****1,2-Dibromo-3-chloropropane (DBCP), 2-Butanone (MEK), Acetone, Tetrahydrofuran**

13A0687-01[1273800], 13A0687-02[1273804], 13A0687-03[1273805], 13A0687-04[1273806], 13A0687-05[1273807], 13A0687-06[1273808], 13A0687-08[1273810], 13A0687-09[1273811], 13A0687-10[1273812], 13A0687-11[1273813], 13A0687-12[1273814], 13A0687-13[1273815], 13A0687-14[1273816], 13A0687-17[1273819], 13A0687-22[1273824], 13A0687-23[1273828], 13A0687-27[1273931], B066927-BS1, B066927-MS1, B066994-BLK1, B066994-BS1



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

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

**Bromomethane, Carbon Tetrachloride**

B066920-BS1, B066927-BS1, B066994-BS1

**SW-846 8270D**

**Qualifications:**

Elevated reporting limit due to matrix.

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

13A0687-03[1273805], 13A0687-03RE1[1273805], 13A0687-09RE1[1273811], 13A0687-10[1273812], 13A0687-11[1273813], 13A0687-17[1273819], 13A0687-22[1273824]

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:**

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

13A0687-06[1273808], B066884-MS1, B066884-MSD1

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:**

**Terphenyl-d14**

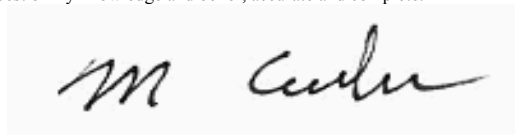
B066965-BLK1, B066965-BS1, B066965-BSD1

**SW-846 8260C**

All water reporting limits specified on the chain-of-custody were met except for Acrylonitrile, where the most protective criteria are not met since the laboratory cannot achieve the required RCP calibration criteria at these levels, unless otherwise listed in this narrative.

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

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



Michael A. Erickson  
Laboratory Director



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273800

Sampled: 1/25/2013 10:45

Sample ID: 13A0687-01

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.40	mg/Kg dry	1	MS-07, V-16	SW-846 8260C	1/30/13	1/30/13 10:35	MFF
Acrylonitrile	ND	0.024	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 10:35	MFF
Benzene	ND	0.0080	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 10:35	MFF
Bromobenzene	ND	0.0080	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 10:35	MFF
Bromodichloromethane	ND	0.0080	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 10:35	MFF
Bromoform	ND	0.0080	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 10:35	MFF
Bromomethane	ND	0.040	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 10:35	MFF
2-Butanone (MEK)	ND	0.16	mg/Kg dry	1	MS-07, V-16	SW-846 8260C	1/30/13	1/30/13 10:35	MFF
n-Butylbenzene	ND	0.0080	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 10:35	MFF
sec-Butylbenzene	ND	0.0080	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 10:35	MFF
tert-Butylbenzene	ND	0.0080	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 10:35	MFF
Carbon Disulfide	ND	0.024	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 10:35	MFF
Carbon Tetrachloride	ND	0.0080	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 10:35	MFF
Chlorobenzene	ND	0.0080	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 10:35	MFF
Chlorodibromomethane	ND	0.0040	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 10:35	MFF
Chloroethane	ND	0.080	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 10:35	MFF
Chloroform	ND	0.016	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 10:35	MFF
Chloromethane	ND	0.040	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 10:35	MFF
2-Chlorotoluene	ND	0.0080	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 10:35	MFF
4-Chlorotoluene	ND	0.0080	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 10:35	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0080	mg/Kg dry	1	V-16	SW-846 8260C	1/30/13	1/30/13 10:35	MFF
1,2-Dibromoethane (EDB)	ND	0.0040	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 10:35	MFF
Dibromomethane	ND	0.0080	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 10:35	MFF
1,2-Dichlorobenzene	ND	0.0080	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 10:35	MFF
1,3-Dichlorobenzene	ND	0.0080	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 10:35	MFF
1,4-Dichlorobenzene	ND	0.0080	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 10:35	MFF
trans-1,4-Dichloro-2-butene	ND	0.016	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 10:35	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.080	mg/Kg dry	1	MS-07	SW-846 8260C	1/30/13	1/30/13 10:35	MFF
1,1-Dichloroethane	ND	0.0080	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 10:35	MFF
1,2-Dichloroethane	ND	0.0080	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 10:35	MFF
1,1-Dichloroethylene	ND	0.016	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 10:35	MFF
cis-1,2-Dichloroethylene	ND	0.0080	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 10:35	MFF
trans-1,2-Dichloroethylene	ND	0.0080	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 10:35	MFF
1,2-Dichloropropane	ND	0.0080	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 10:35	MFF
1,3-Dichloropropane	ND	0.0040	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 10:35	MFF
2,2-Dichloropropane	ND	0.0080	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 10:35	MFF
1,1-Dichloropropene	ND	0.0080	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 10:35	MFF
cis-1,3-Dichloropropene	ND	0.0040	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 10:35	MFF
trans-1,3-Dichloropropene	ND	0.0040	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 10:35	MFF
Ethylbenzene	ND	0.0080	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 10:35	MFF
Hexachlorobutadiene	ND	0.0080	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 10:35	MFF
2-Hexanone (MBK)	ND	0.080	mg/Kg dry	1	MS-07	SW-846 8260C	1/30/13	1/30/13 10:35	MFF
Isopropylbenzene (Cumene)	ND	0.0080	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 10:35	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0080	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 10:35	MFF



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273800

Sampled: 1/25/2013 10:45

Sample ID: 13A0687-01

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.016	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 10:35	MFF
Methylene Chloride	ND	0.080	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 10:35	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.080	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 10:35	MFF
Naphthalene	ND	0.016	mg/Kg dry	1	L-03, MS-08, V-05	SW-846 8260C	1/30/13	1/30/13 10:35	MFF
n-Propylbenzene	ND	0.0080	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 10:35	MFF
Styrene	ND	0.0080	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 10:35	MFF
1,1,1,2-Tetrachloroethane	ND	0.0080	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 10:35	MFF
1,1,2,2-Tetrachloroethane	ND	0.0040	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 10:35	MFF
Tetrachloroethylene	ND	0.0080	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 10:35	MFF
Tetrahydrofuran	ND	0.040	mg/Kg dry	1	V-16	SW-846 8260C	1/30/13	1/30/13 10:35	MFF
Toluene	ND	0.0080	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 10:35	MFF
1,2,3-Trichlorobenzene	ND	0.0080	mg/Kg dry	1	MS-07	SW-846 8260C	1/30/13	1/30/13 10:35	MFF
1,2,4-Trichlorobenzene	ND	0.0080	mg/Kg dry	1	MS-07	SW-846 8260C	1/30/13	1/30/13 10:35	MFF
1,1,1-Trichloroethane	ND	0.0080	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 10:35	MFF
1,1,2-Trichloroethane	ND	0.0080	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 10:35	MFF
Trichloroethylene	ND	0.0080	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 10:35	MFF
Trichlorofluoromethane (Freon 11)	ND	0.040	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 10:35	MFF
1,2,3-Trichloropropane	ND	0.0080	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 10:35	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.040	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 10:35	MFF
1,2,4-Trimethylbenzene	ND	0.0080	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 10:35	MFF
1,3,5-Trimethylbenzene	ND	0.0080	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 10:35	MFF
Vinyl Chloride	ND	0.040	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 10:35	MFF
m+p Xylene	ND	0.016	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 10:35	MFF
o-Xylene	ND	0.0080	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 10:35	MFF
Surrogates	% Recovery	Recovery Limits	Flag						
1,2-Dichloroethane-d4	93.5	70-130							
Toluene-d8	101	70-130							
4-Bromofluorobenzene	93.0	70-130							



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273800

Sampled: 1/25/2013 10:45

Sample ID: 13A0687-01

Sample Matrix: Soil

## Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 18:30	BGL
Acenaphthylene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 18:30	BGL
Anthracene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 18:30	BGL
Benzo(a)anthracene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 18:30	BGL
Benzo(a)pyrene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 18:30	BGL
Benzo(b)fluoranthene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 18:30	BGL
Benzo(g,h,i)perylene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 18:30	BGL
Benzo(k)fluoranthene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 18:30	BGL
Chrysene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 18:30	BGL
Dibenz(a,h)anthracene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 18:30	BGL
Fluoranthene	0.32	0.21	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 18:30	BGL
Fluorene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 18:30	BGL
Indeno(1,2,3-cd)pyrene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 18:30	BGL
2-Methylnaphthalene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 18:30	BGL
Naphthalene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 18:30	BGL
Phenanthrene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 18:30	BGL
Pyrene	0.30	0.21	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 18:30	BGL
Surrogates	% Recovery		Recovery Limits		Flag				
Nitrobenzene-d5	40.4		30-130				1/31/13 18:30		
2-Fluorobiphenyl	44.3		30-130				1/31/13 18:30		
Terphenyl-d14	50.0		30-130				1/31/13 18:30		



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273800

Sampled: 1/25/2013 10:45

Sample ID: 13A0687-01

Sample Matrix: Soil

## Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.025	mg/Kg dry	1		SW-846 8081B	1/30/13	1/31/13 23:03	PJG
Aldrin [2]	ND	0.0063	mg/Kg dry	1		SW-846 8081B	1/30/13	1/31/13 23:03	PJG
alpha-BHC [1]	ND	0.0063	mg/Kg dry	1		SW-846 8081B	1/30/13	1/31/13 23:03	PJG
beta-BHC [1]	ND	0.0063	mg/Kg dry	1		SW-846 8081B	1/30/13	1/31/13 23:03	PJG
delta-BHC [2]	ND	0.0063	mg/Kg dry	1		SW-846 8081B	1/30/13	1/31/13 23:03	PJG
gamma-BHC (Lindane) [1]	ND	0.0025	mg/Kg dry	1		SW-846 8081B	1/30/13	1/31/13 23:03	PJG
Chlordane [1]	ND	0.025	mg/Kg dry	1		SW-846 8081B	1/30/13	1/31/13 23:03	PJG
4,4'-DDD [2]	ND	0.0051	mg/Kg dry	1		SW-846 8081B	1/30/13	1/31/13 23:03	PJG
4,4'-DDE [2]	ND	0.0051	mg/Kg dry	1		SW-846 8081B	1/30/13	1/31/13 23:03	PJG
4,4'-DDT [1]	ND	0.0051	mg/Kg dry	1		SW-846 8081B	1/30/13	1/31/13 23:03	PJG
Dieldrin [1]	ND	0.0051	mg/Kg dry	1		SW-846 8081B	1/30/13	1/31/13 23:03	PJG
Endosulfan I [1]	ND	0.0063	mg/Kg dry	1		SW-846 8081B	1/30/13	1/31/13 23:03	PJG
Endosulfan II [1]	ND	0.010	mg/Kg dry	1		SW-846 8081B	1/30/13	1/31/13 23:03	PJG
Endosulfan sulfate [1]	ND	0.010	mg/Kg dry	1		SW-846 8081B	1/30/13	1/31/13 23:03	PJG
Endrin [1]	ND	0.010	mg/Kg dry	1		SW-846 8081B	1/30/13	1/31/13 23:03	PJG
Endrin aldehyde [1]	ND	0.010	mg/Kg dry	1		SW-846 8081B	1/30/13	1/31/13 23:03	PJG
Endrin ketone [1]	ND	0.010	mg/Kg dry	1		SW-846 8081B	1/30/13	1/31/13 23:03	PJG
Heptachlor [1]	ND	0.0063	mg/Kg dry	1		SW-846 8081B	1/30/13	1/31/13 23:03	PJG
Heptachlor epoxide [1]	ND	0.0063	mg/Kg dry	1		SW-846 8081B	1/30/13	1/31/13 23:03	PJG
Hexachlorobenzene [1]	ND	0.0076	mg/Kg dry	1		SW-846 8081B	1/30/13	1/31/13 23:03	PJG
Methoxychlor [1]	ND	0.063	mg/Kg dry	1		SW-846 8081B	1/30/13	1/31/13 23:03	PJG
Toxaphene [1]	ND	0.13	mg/Kg dry	1		SW-846 8081B	1/30/13	1/31/13 23:03	PJG
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	68.5	30-150							
Decachlorobiphenyl [2]	91.9	30-150							
Tetrachloro-m-xylene [1]	89.2	30-150							
Tetrachloro-m-xylene [2]	90.2	30-150							



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

Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273800

Sampled: 1/25/2013 10:45

Sample ID: 13A0687-01

Sample Matrix: Soil

#### Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	65	13	mg/Kg dry	1		CTDEP ETPH	1/30/13	1/31/13 20:09	SCS
Surrogates	% Recovery		Recovery Limits		Flag				
o-Terphenyl	61.7		50-150			1/31/13 20:09			



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

Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273800

Sampled: 1/25/2013 10:45

Sample ID: 13A0687-01

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	79.1		% Wt	1		SM 2540G	1/29/13	1/30/13 9:21	RH



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273804

Sampled: 1/25/2013 10:50

Sample ID: 13A0687-02

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.14	mg/Kg dry	1	V-16	SW-846 8260C	1/30/13	1/30/13 11:02	MFF
Acrylonitrile	ND	0.0085	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:02	MFF
Benzene	ND	0.0028	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:02	MFF
Bromobenzene	ND	0.0028	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:02	MFF
Bromodichloromethane	ND	0.0028	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:02	MFF
Bromoform	ND	0.0028	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:02	MFF
Bromomethane	ND	0.014	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:02	MFF
2-Butanone (MEK)	ND	0.057	mg/Kg dry	1	V-16	SW-846 8260C	1/30/13	1/30/13 11:02	MFF
n-Butylbenzene	ND	0.0028	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:02	MFF
sec-Butylbenzene	ND	0.0028	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:02	MFF
tert-Butylbenzene	ND	0.0028	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:02	MFF
Carbon Disulfide	ND	0.0085	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:02	MFF
Carbon Tetrachloride	ND	0.0028	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:02	MFF
Chlorobenzene	ND	0.0028	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:02	MFF
Chlorodibromomethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:02	MFF
Chloroethane	ND	0.028	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:02	MFF
Chloroform	ND	0.0057	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:02	MFF
Chloromethane	ND	0.014	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:02	MFF
2-Chlorotoluene	ND	0.0028	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:02	MFF
4-Chlorotoluene	ND	0.0028	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:02	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0028	mg/Kg dry	1	V-16	SW-846 8260C	1/30/13	1/30/13 11:02	MFF
1,2-Dibromoethane (EDB)	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:02	MFF
Dibromomethane	ND	0.0028	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:02	MFF
1,2-Dichlorobenzene	ND	0.0028	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:02	MFF
1,3-Dichlorobenzene	ND	0.0028	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:02	MFF
1,4-Dichlorobenzene	ND	0.0028	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:02	MFF
trans-1,4-Dichloro-2-butene	ND	0.0057	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:02	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.028	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:02	MFF
1,1-Dichloroethane	ND	0.0028	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:02	MFF
1,2-Dichloroethane	ND	0.0028	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:02	MFF
1,1-Dichloroethylene	ND	0.0057	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:02	MFF
cis-1,2-Dichloroethylene	ND	0.0028	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:02	MFF
trans-1,2-Dichloroethylene	ND	0.0028	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:02	MFF
1,2-Dichloropropane	ND	0.0028	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:02	MFF
1,3-Dichloropropane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:02	MFF
2,2-Dichloropropane	ND	0.0028	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:02	MFF
1,1-Dichloropropene	ND	0.0028	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:02	MFF
cis-1,3-Dichloropropene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:02	MFF
trans-1,3-Dichloropropene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:02	MFF
Ethylbenzene	ND	0.0028	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:02	MFF
Hexachlorobutadiene	ND	0.0028	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:02	MFF
2-Hexanone (MBK)	ND	0.028	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:02	MFF
Isopropylbenzene (Cumene)	ND	0.0028	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:02	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0028	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:02	MFF



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273804

Sampled: 1/25/2013 10:50

Sample ID: 13A0687-02

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0057	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:02	MFF
Methylene Chloride	ND	0.028	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:02	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.028	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:02	MFF
Naphthalene	ND	0.0057	mg/Kg dry	1	L-03, V-05	SW-846 8260C	1/30/13	1/30/13 11:02	MFF
n-Propylbenzene	ND	0.0028	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:02	MFF
Styrene	ND	0.0028	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:02	MFF
1,1,1,2-Tetrachloroethane	ND	0.0028	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:02	MFF
1,1,2,2-Tetrachloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:02	MFF
Tetrachloroethylene	ND	0.0028	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:02	MFF
Tetrahydrofuran	ND	0.014	mg/Kg dry	1	V-16	SW-846 8260C	1/30/13	1/30/13 11:02	MFF
Toluene	ND	0.0028	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:02	MFF
1,2,3-Trichlorobenzene	ND	0.0028	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:02	MFF
1,2,4-Trichlorobenzene	ND	0.0028	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:02	MFF
1,1,1-Trichloroethane	ND	0.0028	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:02	MFF
1,1,2-Trichloroethane	ND	0.0028	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:02	MFF
Trichloroethylene	ND	0.0028	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:02	MFF
Trichlorofluoromethane (Freon 11)	ND	0.014	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:02	MFF
1,2,3-Trichloropropane	ND	0.0028	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:02	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.014	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:02	MFF
1,2,4-Trimethylbenzene	ND	0.0028	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:02	MFF
1,3,5-Trimethylbenzene	ND	0.0028	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:02	MFF
Vinyl Chloride	ND	0.014	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:02	MFF
m+p Xylene	ND	0.0057	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:02	MFF
o-Xylene	ND	0.0028	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:02	MFF
Surrogates	% Recovery	Recovery Limits	Flag						
1,2-Dichloroethane-d4	91.8	70-130							
Toluene-d8	102	70-130							
4-Bromofluorobenzene	93.6	70-130							



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

Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273804

Sampled: 1/25/2013 10:50

Sample ID: 13A0687-02

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 13:19	CDT
Acenaphthylene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 13:19	CDT
Anthracene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 13:19	CDT
Benzo(a)anthracene	0.22	0.21	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 13:19	CDT
Benzo(a)pyrene	0.23	0.21	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 13:19	CDT
Benzo(b)fluoranthene	0.32	0.21	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 13:19	CDT
Benzo(g,h,i)perylene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 13:19	CDT
Benzo(k)fluoranthene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 13:19	CDT
Chrysene	0.29	0.21	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 13:19	CDT
Dibenz(a,h)anthracene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 13:19	CDT
Fluoranthene	0.40	0.21	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 13:19	CDT
Fluorene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 13:19	CDT
Indeno(1,2,3-cd)pyrene	0.26	0.21	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 13:19	CDT
2-Methylnaphthalene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 13:19	CDT
Naphthalene	ND	0.21	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 13:19	CDT
Phenanthrene	0.38	0.21	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 13:19	CDT
Pyrene	0.41	0.21	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 13:19	CDT
Surrogates	% Recovery		Recovery Limits		Flag				
Nitrobenzene-d5	79.8		30-130				1/31/13 13:19		
2-Fluorobiphenyl	72.8		30-130				1/31/13 13:19		
Terphenyl-d14	73.0		30-130				1/31/13 13:19		



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

Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273804

Sampled: 1/25/2013 10:50

Sample ID: 13A0687-02

Sample Matrix: Soil

#### Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	82	12	mg/Kg dry	1		CTDEP ETPH	1/30/13	1/31/13 20:26	SCS
Surrogates	% Recovery		Recovery Limits		Flag				
o-Terphenyl	70.3		50-150			1/31/13 20:26			



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

Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273804

Sampled: 1/25/2013 10:50

Sample ID: 13A0687-02

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	80.0		% Wt	1		SM 2540G	1/29/13	1/30/13 9:21	RH



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273805

Sampled: 1/25/2013 11:05

Sample ID: 13A0687-03

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.21	mg/Kg dry	1	V-16	SW-846 8260C	1/30/13	1/30/13 11:29	MFF
Acrylonitrile	ND	0.013	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:29	MFF
Benzene	ND	0.0042	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:29	MFF
Bromobenzene	ND	0.0042	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:29	MFF
Bromodichloromethane	ND	0.0042	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:29	MFF
Bromoform	ND	0.0042	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:29	MFF
Bromomethane	ND	0.021	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:29	MFF
2-Butanone (MEK)	ND	0.085	mg/Kg dry	1	V-16	SW-846 8260C	1/30/13	1/30/13 11:29	MFF
n-Butylbenzene	ND	0.0042	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:29	MFF
sec-Butylbenzene	ND	0.0042	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:29	MFF
tert-Butylbenzene	ND	0.0042	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:29	MFF
Carbon Disulfide	ND	0.013	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:29	MFF
Carbon Tetrachloride	ND	0.0042	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:29	MFF
Chlorobenzene	ND	0.0042	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:29	MFF
Chlorodibromomethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:29	MFF
Chloroethane	ND	0.042	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:29	MFF
Chloroform	ND	0.0085	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:29	MFF
Chloromethane	ND	0.021	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:29	MFF
2-Chlorotoluene	ND	0.0042	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:29	MFF
4-Chlorotoluene	ND	0.0042	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:29	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0042	mg/Kg dry	1	V-16	SW-846 8260C	1/30/13	1/30/13 11:29	MFF
1,2-Dibromoethane (EDB)	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:29	MFF
Dibromomethane	ND	0.0042	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:29	MFF
1,2-Dichlorobenzene	ND	0.0042	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:29	MFF
1,3-Dichlorobenzene	ND	0.0042	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:29	MFF
1,4-Dichlorobenzene	ND	0.0042	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:29	MFF
trans-1,4-Dichloro-2-butene	ND	0.0085	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:29	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.042	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:29	MFF
1,1-Dichloroethane	ND	0.0042	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:29	MFF
1,2-Dichloroethane	ND	0.0042	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:29	MFF
1,1-Dichloroethylene	ND	0.0085	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:29	MFF
cis-1,2-Dichloroethylene	ND	0.0042	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:29	MFF
trans-1,2-Dichloroethylene	ND	0.0042	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:29	MFF
1,2-Dichloropropane	ND	0.0042	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:29	MFF
1,3-Dichloropropane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:29	MFF
2,2-Dichloropropane	ND	0.0042	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:29	MFF
1,1-Dichloropropene	ND	0.0042	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:29	MFF
cis-1,3-Dichloropropene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:29	MFF
trans-1,3-Dichloropropene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:29	MFF
Ethylbenzene	ND	0.0042	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:29	MFF
Hexachlorobutadiene	ND	0.0042	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:29	MFF
2-Hexanone (MBK)	ND	0.042	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:29	MFF
Isopropylbenzene (Cumene)	ND	0.0042	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:29	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0042	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:29	MFF



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273805

Sampled: 1/25/2013 11:05

Sample ID: 13A0687-03

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0085	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:29	MFF
Methylene Chloride	ND	0.042	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:29	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.042	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:29	MFF
Naphthalene	ND	0.0085	mg/Kg dry	1	L-03, V-05	SW-846 8260C	1/30/13	1/30/13 11:29	MFF
n-Propylbenzene	ND	0.0042	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:29	MFF
Styrene	ND	0.0042	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:29	MFF
1,1,1,2-Tetrachloroethane	ND	0.0042	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:29	MFF
1,1,2,2-Tetrachloroethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:29	MFF
Tetrachloroethylene	ND	0.0042	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:29	MFF
Tetrahydrofuran	ND	0.021	mg/Kg dry	1	V-16	SW-846 8260C	1/30/13	1/30/13 11:29	MFF
Toluene	ND	0.0042	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:29	MFF
1,2,3-Trichlorobenzene	ND	0.0042	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:29	MFF
1,2,4-Trichlorobenzene	ND	0.0042	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:29	MFF
1,1,1-Trichloroethane	ND	0.0042	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:29	MFF
1,1,2-Trichloroethane	ND	0.0042	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:29	MFF
Trichloroethylene	ND	0.0042	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:29	MFF
Trichlorofluoromethane (Freon 11)	ND	0.021	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:29	MFF
1,2,3-Trichloropropane	ND	0.0042	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:29	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.021	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:29	MFF
1,2,4-Trimethylbenzene	ND	0.0042	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:29	MFF
1,3,5-Trimethylbenzene	ND	0.0042	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:29	MFF
Vinyl Chloride	ND	0.021	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:29	MFF
m+p Xylene	ND	0.0085	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:29	MFF
o-Xylene	ND	0.0042	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:29	MFF
Surrogates	% Recovery	Recovery Limits	Flag						
1,2-Dichloroethane-d4	91.8	70-130							
Toluene-d8	103	70-130							
4-Bromofluorobenzene	94.2	70-130							



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273805

Sampled: 1/25/2013 11:05

Sample ID: 13A0687-03

Sample Matrix: Soil

Sample Flags: DL-03

## Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.44	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 13:49	CDT
Acenaphthylene	ND	0.44	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 13:49	CDT
Anthracene	1.8	0.44	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 13:49	CDT
Benzo(a)anthracene	4.7	0.44	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 13:49	CDT
Benzo(a)pyrene	3.4	0.44	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 13:49	CDT
Benzo(b)fluoranthene	4.4	0.44	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 13:49	CDT
Benzo(g,h,i)perylene	1.0	0.44	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 13:49	CDT
Benzo(k)fluoranthene	1.5	0.44	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 13:49	CDT
Chrysene	5.5	0.44	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 13:49	CDT
Dibenz(a,h)anthracene	0.53	0.44	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 13:49	CDT
Fluoranthene	8.0	0.44	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 13:49	CDT
Fluorene	ND	0.44	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 13:49	CDT
Indeno(1,2,3-cd)pyrene	1.4	0.44	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 13:49	CDT
2-Methylnaphthalene	ND	0.44	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 13:49	CDT
Naphthalene	ND	0.44	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 13:49	CDT
Phenanthrene	10	0.89	mg/Kg dry	2		SW-846 8270D	1/29/13	1/31/13 16:48	CDT
Pyrene	7.7	0.44	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 13:49	CDT
Surrogates	% Recovery	Recovery Limits	Flag						
Nitrobenzene-d5	103	30-130							
Nitrobenzene-d5	100	30-130							
2-Fluorobiphenyl	97.9	30-130							
2-Fluorobiphenyl	92.5	30-130							
Terphenyl-d14	81.2	30-130							
Terphenyl-d14	64.0	30-130							



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273805

Sampled: 1/25/2013 11:05

Sample ID: 13A0687-03

Sample Matrix: Soil

## Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.027	mg/Kg dry	1		SW-846 8081B	1/30/13	2/1/13 3:39	PJG
Aldrin [2]	ND	0.0067	mg/Kg dry	1		SW-846 8081B	1/30/13	2/1/13 3:39	PJG
alpha-BHC [1]	ND	0.0067	mg/Kg dry	1		SW-846 8081B	1/30/13	2/1/13 3:39	PJG
beta-BHC [1]	ND	0.0067	mg/Kg dry	1		SW-846 8081B	1/30/13	2/1/13 3:39	PJG
delta-BHC [2]	ND	0.0067	mg/Kg dry	1		SW-846 8081B	1/30/13	2/1/13 3:39	PJG
gamma-BHC (Lindane) [1]	ND	0.0027	mg/Kg dry	1		SW-846 8081B	1/30/13	2/1/13 3:39	PJG
Chlordane [1]	ND	0.027	mg/Kg dry	1		SW-846 8081B	1/30/13	2/1/13 3:39	PJG
4,4'-DDD [2]	ND	0.0053	mg/Kg dry	1		SW-846 8081B	1/30/13	2/1/13 3:39	PJG
4,4'-DDE [2]	ND	0.0053	mg/Kg dry	1		SW-846 8081B	1/30/13	2/1/13 3:39	PJG
4,4'-DDT [1]	ND	0.0053	mg/Kg dry	1		SW-846 8081B	1/30/13	2/1/13 3:39	PJG
Dieldrin [1]	ND	0.0053	mg/Kg dry	1		SW-846 8081B	1/30/13	2/1/13 3:39	PJG
Endosulfan I [1]	ND	0.0067	mg/Kg dry	1		SW-846 8081B	1/30/13	2/1/13 3:39	PJG
Endosulfan II [1]	ND	0.011	mg/Kg dry	1		SW-846 8081B	1/30/13	2/1/13 3:39	PJG
Endosulfan sulfate [1]	ND	0.011	mg/Kg dry	1		SW-846 8081B	1/30/13	2/1/13 3:39	PJG
Endrin [1]	ND	0.011	mg/Kg dry	1		SW-846 8081B	1/30/13	2/1/13 3:39	PJG
Endrin aldehyde [1]	ND	0.011	mg/Kg dry	1		SW-846 8081B	1/30/13	2/1/13 3:39	PJG
Endrin ketone [1]	ND	0.011	mg/Kg dry	1		SW-846 8081B	1/30/13	2/1/13 3:39	PJG
Heptachlor [1]	ND	0.0067	mg/Kg dry	1		SW-846 8081B	1/30/13	2/1/13 3:39	PJG
Heptachlor epoxide [1]	ND	0.0067	mg/Kg dry	1		SW-846 8081B	1/30/13	2/1/13 3:39	PJG
Hexachlorobenzene [1]	ND	0.0080	mg/Kg dry	1		SW-846 8081B	1/30/13	2/1/13 3:39	PJG
Methoxychlor [1]	ND	0.067	mg/Kg dry	1		SW-846 8081B	1/30/13	2/1/13 3:39	PJG
Toxaphene [1]	ND	0.13	mg/Kg dry	1		SW-846 8081B	1/30/13	2/1/13 3:39	PJG
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	67.7	30-150						2/1/13 3:39	
Decachlorobiphenyl [2]	92.9	30-150						2/1/13 3:39	
Tetrachloro-m-xylene [1]	73.2	30-150						2/1/13 3:39	
Tetrachloro-m-xylene [2]	73.5	30-150						2/1/13 3:39	



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

Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273805

Sampled: 1/25/2013 11:05

Sample ID: 13A0687-03

Sample Matrix: Soil

#### Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	240	67	mg/Kg dry	5		CTDEP ETPH	1/30/13	2/1/13 11:58	SCS
Surrogates	% Recovery		Recovery Limits		Flag				
o-Terphenyl	75.8		50-150			2/1/13 11:58			



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273805

Sampled: 1/25/2013 11:05

Sample ID: 13A0687-03

Sample Matrix: Soil

## Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	3.3	mg/Kg dry	1		SW-846 6010C	1/29/13	2/1/13 15:00	OP
Barium	55	3.3	mg/Kg dry	1		SW-846 6010C	1/29/13	2/1/13 15:00	OP
Cadmium	0.44	0.33	mg/Kg dry	1		SW-846 6010C	1/29/13	2/1/13 15:00	OP
Chromium	13	0.65	mg/Kg dry	1		SW-846 6010C	1/29/13	2/1/13 15:00	OP
Copper	16	0.65	mg/Kg dry	1	B-07, B	SW-846 6010C	1/29/13	2/1/13 15:00	OP
Lead	610	0.98	mg/Kg dry	1	MS-19, R-02	SW-846 6010C	1/29/13	2/1/13 15:00	OP
Mercury	0.13	0.032	mg/Kg dry	1		SW-846 7471B	1/30/13	1/30/13 12:36	SAJ
Nickel	7.2	0.65	mg/Kg dry	1		SW-846 6010C	1/29/13	2/1/13 15:00	OP
Selenium	ND	6.5	mg/Kg dry	1		SW-846 6010C	1/29/13	2/1/13 15:00	OP
Silver	ND	0.65	mg/Kg dry	1		SW-846 6010C	1/29/13	2/1/13 15:00	OP
Zinc	160	1.3	mg/Kg dry	1	MS-19	SW-846 6010C	1/29/13	2/1/13 15:00	OP



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

Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273805

Sampled: 1/25/2013 11:05

Sample ID: 13A0687-03

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	74.8		% Wt	1		SM 2540G	1/29/13	1/30/13 9:21	RH



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273806

Sampled: 1/25/2013 11:10

Sample ID: 13A0687-04

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.24	mg/Kg dry	1	V-16	SW-846 8260C	1/30/13	1/30/13 11:56	MFF
Acrylonitrile	ND	0.014	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:56	MFF
Benzene	ND	0.0048	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:56	MFF
Bromobenzene	ND	0.0048	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:56	MFF
Bromodichloromethane	ND	0.0048	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:56	MFF
Bromoform	ND	0.0048	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:56	MFF
Bromomethane	ND	0.024	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:56	MFF
2-Butanone (MEK)	ND	0.096	mg/Kg dry	1	V-16	SW-846 8260C	1/30/13	1/30/13 11:56	MFF
n-Butylbenzene	ND	0.0048	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:56	MFF
sec-Butylbenzene	ND	0.0048	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:56	MFF
tert-Butylbenzene	ND	0.0048	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:56	MFF
Carbon Disulfide	ND	0.014	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:56	MFF
Carbon Tetrachloride	ND	0.0048	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:56	MFF
Chlorobenzene	ND	0.0048	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:56	MFF
Chlorodibromomethane	ND	0.0024	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:56	MFF
Chloroethane	ND	0.048	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:56	MFF
Chloroform	ND	0.0096	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:56	MFF
Chloromethane	ND	0.024	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:56	MFF
2-Chlorotoluene	ND	0.0048	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:56	MFF
4-Chlorotoluene	ND	0.0048	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:56	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0048	mg/Kg dry	1	V-16	SW-846 8260C	1/30/13	1/30/13 11:56	MFF
1,2-Dibromoethane (EDB)	ND	0.0024	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:56	MFF
Dibromomethane	ND	0.0048	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:56	MFF
1,2-Dichlorobenzene	ND	0.0048	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:56	MFF
1,3-Dichlorobenzene	ND	0.0048	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:56	MFF
1,4-Dichlorobenzene	ND	0.0048	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:56	MFF
trans-1,4-Dichloro-2-butene	ND	0.0096	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:56	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.048	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:56	MFF
1,1-Dichloroethane	ND	0.0048	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:56	MFF
1,2-Dichloroethane	ND	0.0048	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:56	MFF
1,1-Dichloroethylene	ND	0.0096	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:56	MFF
cis-1,2-Dichloroethylene	ND	0.0048	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:56	MFF
trans-1,2-Dichloroethylene	ND	0.0048	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:56	MFF
1,2-Dichloropropane	ND	0.0048	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:56	MFF
1,3-Dichloropropane	ND	0.0024	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:56	MFF
2,2-Dichloropropane	ND	0.0048	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:56	MFF
1,1-Dichloropropene	ND	0.0048	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:56	MFF
cis-1,3-Dichloropropene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:56	MFF
trans-1,3-Dichloropropene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:56	MFF
Ethylbenzene	ND	0.0048	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:56	MFF
Hexachlorobutadiene	ND	0.0048	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:56	MFF
2-Hexanone (MBK)	ND	0.048	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:56	MFF
Isopropylbenzene (Cumene)	ND	0.0048	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:56	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0048	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:56	MFF



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273806

Sampled: 1/25/2013 11:10

Sample ID: 13A0687-04

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0096	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:56	MFF
Methylene Chloride	ND	0.048	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:56	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.048	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:56	MFF
Naphthalene	ND	0.0096	mg/Kg dry	1	L-03, V-05	SW-846 8260C	1/30/13	1/30/13 11:56	MFF
n-Propylbenzene	ND	0.0048	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:56	MFF
Styrene	ND	0.0048	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:56	MFF
1,1,1,2-Tetrachloroethane	ND	0.0048	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:56	MFF
1,1,2,2-Tetrachloroethane	ND	0.0024	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:56	MFF
Tetrachloroethylene	ND	0.0048	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:56	MFF
Tetrahydrofuran	ND	0.024	mg/Kg dry	1	V-16	SW-846 8260C	1/30/13	1/30/13 11:56	MFF
Toluene	ND	0.0048	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:56	MFF
1,2,3-Trichlorobenzene	ND	0.0048	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:56	MFF
1,2,4-Trichlorobenzene	ND	0.0048	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:56	MFF
1,1,1-Trichloroethane	ND	0.0048	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:56	MFF
1,1,2-Trichloroethane	ND	0.0048	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:56	MFF
Trichloroethylene	ND	0.0048	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:56	MFF
Trichlorofluoromethane (Freon 11)	ND	0.024	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:56	MFF
1,2,3-Trichloropropane	ND	0.0048	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:56	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.024	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:56	MFF
1,2,4-Trimethylbenzene	ND	0.0048	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:56	MFF
1,3,5-Trimethylbenzene	ND	0.0048	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:56	MFF
Vinyl Chloride	ND	0.024	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:56	MFF
m+p Xylene	ND	0.0096	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:56	MFF
o-Xylene	ND	0.0048	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 11:56	MFF
Surrogates	% Recovery	Recovery Limits	Flag						
1,2-Dichloroethane-d4	90.2	70-130							
Toluene-d8	102	70-130							
4-Bromofluorobenzene	95.5	70-130							



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273806

Sampled: 1/25/2013 11:10

Sample ID: 13A0687-04

Sample Matrix: Soil

## Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	2/1/13 10:31	CDT
Acenaphthylene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	2/1/13 10:31	CDT
Anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	2/1/13 10:31	CDT
Benzo(a)anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	2/1/13 10:31	CDT
Benzo(a)pyrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	2/1/13 10:31	CDT
Benzo(b)fluoranthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	2/1/13 10:31	CDT
Benzo(g,h,i)perylene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	2/1/13 10:31	CDT
Benzo(k)fluoranthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	2/1/13 10:31	CDT
Chrysene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	2/1/13 10:31	CDT
Dibenz(a,h)anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	2/1/13 10:31	CDT
Fluoranthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	2/1/13 10:31	CDT
Fluorene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	2/1/13 10:31	CDT
Indeno(1,2,3-cd)pyrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	2/1/13 10:31	CDT
2-Methylnaphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	2/1/13 10:31	CDT
Naphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	2/1/13 10:31	CDT
Phenanthrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	2/1/13 10:31	CDT
Pyrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	2/1/13 10:31	CDT
Surrogates	% Recovery	Recovery Limits	Flag						
Nitrobenzene-d5	57.3	30-130							
2-Fluorobiphenyl	55.3	30-130							
Terphenyl-d14	69.1	30-130							



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

Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273806

Sampled: 1/25/2013 11:10

Sample ID: 13A0687-04

Sample Matrix: Soil

#### Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	44	12	mg/Kg dry	1		CTDEP ETPH	1/30/13	1/31/13 20:44	SCS
Surrogates	% Recovery		Recovery Limits		Flag				
o-Terphenyl	80.4		50-150			1/31/13 20:44			



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273806

Sampled: 1/25/2013 11:10

Sample ID: 13A0687-04

Sample Matrix: Soil

**Metals Analyses (Total)**

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	2.8	mg/Kg dry	1		SW-846 6010C	1/29/13	2/1/13 15:55	OP
Barium	34	2.8	mg/Kg dry	1		SW-846 6010C	1/29/13	2/1/13 15:55	OP
Cadmium	ND	0.28	mg/Kg dry	1		SW-846 6010C	1/29/13	2/1/13 15:55	OP
Chromium	14	0.57	mg/Kg dry	1		SW-846 6010C	1/29/13	2/1/13 15:55	OP
Copper	8.7	0.57	mg/Kg dry	1	B-07, B	SW-846 6010C	1/29/13	2/1/13 15:55	OP
Lead	14	0.85	mg/Kg dry	1		SW-846 6010C	1/29/13	2/1/13 15:55	OP
Mercury	0.040	0.030	mg/Kg dry	1		SW-846 7471B	1/30/13	1/30/13 12:38	SAJ
Nickel	7.4	0.57	mg/Kg dry	1		SW-846 6010C	1/29/13	2/1/13 15:55	OP
Selenium	ND	5.7	mg/Kg dry	1		SW-846 6010C	1/29/13	2/1/13 15:55	OP
Silver	ND	0.57	mg/Kg dry	1		SW-846 6010C	1/29/13	2/1/13 15:55	OP
Zinc	36	1.1	mg/Kg dry	1		SW-846 6010C	1/29/13	2/1/13 15:55	OP



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

Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273806

Sampled: 1/25/2013 11:10

Sample ID: 13A0687-04

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	82.8		% Wt	1		SM 2540G	1/29/13	1/30/13 9:21	RH



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273807

Sampled: 1/25/2013 11:30

Sample ID: 13A0687-05

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.16	mg/Kg dry	1	V-16	SW-846 8260C	1/30/13	1/30/13 12:22	MFF
Acrylonitrile	ND	0.0096	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 12:22	MFF
Benzene	ND	0.0032	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 12:22	MFF
Bromobenzene	ND	0.0032	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 12:22	MFF
Bromodichloromethane	ND	0.0032	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 12:22	MFF
Bromoform	ND	0.0032	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 12:22	MFF
Bromomethane	ND	0.016	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 12:22	MFF
2-Butanone (MEK)	ND	0.064	mg/Kg dry	1	V-16	SW-846 8260C	1/30/13	1/30/13 12:22	MFF
n-Butylbenzene	ND	0.0032	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 12:22	MFF
sec-Butylbenzene	ND	0.0032	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 12:22	MFF
tert-Butylbenzene	ND	0.0032	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 12:22	MFF
Carbon Disulfide	ND	0.0096	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 12:22	MFF
Carbon Tetrachloride	ND	0.0032	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 12:22	MFF
Chlorobenzene	ND	0.0032	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 12:22	MFF
Chlorodibromomethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 12:22	MFF
Chloroethane	ND	0.032	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 12:22	MFF
Chloroform	ND	0.0064	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 12:22	MFF
Chloromethane	ND	0.016	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 12:22	MFF
2-Chlorotoluene	ND	0.0032	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 12:22	MFF
4-Chlorotoluene	ND	0.0032	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 12:22	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0032	mg/Kg dry	1	V-16	SW-846 8260C	1/30/13	1/30/13 12:22	MFF
1,2-Dibromoethane (EDB)	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 12:22	MFF
Dibromomethane	ND	0.0032	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 12:22	MFF
1,2-Dichlorobenzene	ND	0.0032	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 12:22	MFF
1,3-Dichlorobenzene	ND	0.0032	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 12:22	MFF
1,4-Dichlorobenzene	ND	0.0032	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 12:22	MFF
trans-1,4-Dichloro-2-butene	ND	0.0064	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 12:22	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.032	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 12:22	MFF
1,1-Dichloroethane	ND	0.0032	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 12:22	MFF
1,2-Dichloroethane	ND	0.0032	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 12:22	MFF
1,1-Dichloroethylene	ND	0.0064	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 12:22	MFF
cis-1,2-Dichloroethylene	ND	0.0032	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 12:22	MFF
trans-1,2-Dichloroethylene	ND	0.0032	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 12:22	MFF
1,2-Dichloropropane	ND	0.0032	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 12:22	MFF
1,3-Dichloropropane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 12:22	MFF
2,2-Dichloropropane	ND	0.0032	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 12:22	MFF
1,1-Dichloropropene	ND	0.0032	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 12:22	MFF
cis-1,3-Dichloropropene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 12:22	MFF
trans-1,3-Dichloropropene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 12:22	MFF
Ethylbenzene	ND	0.0032	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 12:22	MFF
Hexachlorobutadiene	ND	0.0032	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 12:22	MFF
2-Hexanone (MBK)	ND	0.032	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 12:22	MFF
Isopropylbenzene (Cumene)	ND	0.0032	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 12:22	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0032	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 12:22	MFF



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273807

Sampled: 1/25/2013 11:30

Sample ID: 13A0687-05

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0064	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 12:22	MFF
Methylene Chloride	ND	0.032	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 12:22	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.032	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 12:22	MFF
Naphthalene	ND	0.0064	mg/Kg dry	1	L-03, V-05	SW-846 8260C	1/30/13	1/30/13 12:22	MFF
n-Propylbenzene	ND	0.0032	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 12:22	MFF
Styrene	ND	0.0032	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 12:22	MFF
1,1,1,2-Tetrachloroethane	ND	0.0032	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 12:22	MFF
1,1,2,2-Tetrachloroethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 12:22	MFF
Tetrachloroethylene	ND	0.0032	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 12:22	MFF
Tetrahydrofuran	ND	0.016	mg/Kg dry	1	V-16	SW-846 8260C	1/30/13	1/30/13 12:22	MFF
Toluene	ND	0.0032	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 12:22	MFF
1,2,3-Trichlorobenzene	ND	0.0032	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 12:22	MFF
1,2,4-Trichlorobenzene	ND	0.0032	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 12:22	MFF
1,1,1-Trichloroethane	ND	0.0032	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 12:22	MFF
1,1,2-Trichloroethane	ND	0.0032	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 12:22	MFF
Trichloroethylene	ND	0.0032	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 12:22	MFF
Trichlorofluoromethane (Freon 11)	ND	0.016	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 12:22	MFF
1,2,3-Trichloropropane	ND	0.0032	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 12:22	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.016	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 12:22	MFF
1,2,4-Trimethylbenzene	ND	0.0032	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 12:22	MFF
1,3,5-Trimethylbenzene	ND	0.0032	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 12:22	MFF
Vinyl Chloride	ND	0.016	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 12:22	MFF
m+p Xylene	ND	0.0064	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 12:22	MFF
o-Xylene	ND	0.0032	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 12:22	MFF
Surrogates	% Recovery	Recovery Limits	Flag						
1,2-Dichloroethane-d4	88.9	70-130							
Toluene-d8	112	70-130							
4-Bromofluorobenzene	87.1	70-130							



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273807

Sampled: 1/25/2013 11:30

Sample ID: 13A0687-05

Sample Matrix: Soil

## Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 14:19	CDT
Acenaphthylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 14:19	CDT
Anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 14:19	CDT
Benzo(a)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 14:19	CDT
Benzo(a)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 14:19	CDT
Benzo(b)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 14:19	CDT
Benzo(g,h,i)perylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 14:19	CDT
Benzo(k)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 14:19	CDT
Chrysene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 14:19	CDT
Dibenz(a,h)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 14:19	CDT
Fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 14:19	CDT
Fluorene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 14:19	CDT
Indeno(1,2,3-cd)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 14:19	CDT
2-Methylnaphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 14:19	CDT
Naphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 14:19	CDT
Phenanthrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 14:19	CDT
Pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 14:19	CDT
Surrogates	% Recovery	Recovery Limits	Flag						
Nitrobenzene-d5	92.0	30-130							
2-Fluorobiphenyl	84.2	30-130							
Terphenyl-d14	86.9	30-130							



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

Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273807

Sampled: 1/25/2013 11:30

Sample ID: 13A0687-05

Sample Matrix: Soil

#### Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	24	11	mg/Kg dry	1		CTDEP ETPH	1/30/13	1/31/13 20:09	SCS
Surrogates	% Recovery		Recovery Limits		Flag				
o-Terphenyl	66.2		50-150			1/31/13 20:09			



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273807

Sampled: 1/25/2013 11:30

Sample ID: 13A0687-05

Sample Matrix: Soil

# Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	2.7	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 18:03	KSH
Barium	23	2.7	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 18:03	KSH
Cadmium	ND	0.27	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 18:03	KSH
Chromium	9.4	0.55	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 18:03	KSH
Copper	3.5	0.55	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 18:03	KSH
Lead	9.0	0.82	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 18:03	KSH
Mercury	0.042	0.028	mg/Kg dry	1		SW-846 7471B	1/30/13	1/30/13 12:39	SAJ
Nickel	4.4	0.55	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 18:03	KSH
Selenium	ND	5.5	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 18:03	KSH
Silver	ND	0.55	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 18:03	KSH
Zinc	18	1.1	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 18:03	KSH



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

Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273807

Sampled: 1/25/2013 11:30

Sample ID: 13A0687-05

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	87.2		% Wt	1		SM 2540G	1/29/13	1/30/13 9:21	RH



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273808

Sampled: 1/25/2013 11:50

Sample ID: 13A0687-06

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.14	mg/Kg dry	1	V-16	SW-846 8260C	1/30/13	1/30/13 12:51	MFF
Acrylonitrile	ND	0.0084	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 12:51	MFF
Benzene	ND	0.0028	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 12:51	MFF
Bromobenzene	ND	0.0028	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 12:51	MFF
Bromodichloromethane	ND	0.0028	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 12:51	MFF
Bromoform	ND	0.0028	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 12:51	MFF
Bromomethane	ND	0.014	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 12:51	MFF
2-Butanone (MEK)	ND	0.056	mg/Kg dry	1	V-16	SW-846 8260C	1/30/13	1/30/13 12:51	MFF
n-Butylbenzene	ND	0.0028	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 12:51	MFF
sec-Butylbenzene	ND	0.0028	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 12:51	MFF
tert-Butylbenzene	ND	0.0028	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 12:51	MFF
Carbon Disulfide	ND	0.0084	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 12:51	MFF
Carbon Tetrachloride	ND	0.0028	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 12:51	MFF
Chlorobenzene	ND	0.0028	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 12:51	MFF
Chlorodibromomethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 12:51	MFF
Chloroethane	ND	0.028	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 12:51	MFF
Chloroform	ND	0.0056	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 12:51	MFF
Chloromethane	ND	0.014	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 12:51	MFF
2-Chlorotoluene	ND	0.0028	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 12:51	MFF
4-Chlorotoluene	ND	0.0028	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 12:51	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0028	mg/Kg dry	1	V-16	SW-846 8260C	1/30/13	1/30/13 12:51	MFF
1,2-Dibromoethane (EDB)	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 12:51	MFF
Dibromomethane	ND	0.0028	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 12:51	MFF
1,2-Dichlorobenzene	ND	0.0028	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 12:51	MFF
1,3-Dichlorobenzene	ND	0.0028	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 12:51	MFF
1,4-Dichlorobenzene	ND	0.0028	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 12:51	MFF
trans-1,4-Dichloro-2-butene	ND	0.0056	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 12:51	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.028	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 12:51	MFF
1,1-Dichloroethane	ND	0.0028	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 12:51	MFF
1,2-Dichloroethane	ND	0.0028	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 12:51	MFF
1,1-Dichloroethylene	ND	0.0056	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 12:51	MFF
cis-1,2-Dichloroethylene	ND	0.0028	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 12:51	MFF
trans-1,2-Dichloroethylene	ND	0.0028	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 12:51	MFF
1,2-Dichloropropane	ND	0.0028	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 12:51	MFF
1,3-Dichloropropane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 12:51	MFF
2,2-Dichloropropane	ND	0.0028	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 12:51	MFF
1,1-Dichloropropene	ND	0.0028	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 12:51	MFF
cis-1,3-Dichloropropene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 12:51	MFF
trans-1,3-Dichloropropene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 12:51	MFF
Ethylbenzene	ND	0.0028	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 12:51	MFF
Hexachlorobutadiene	ND	0.0028	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 12:51	MFF
2-Hexanone (MBK)	ND	0.028	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 12:51	MFF
Isopropylbenzene (Cumene)	ND	0.0028	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 12:51	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0028	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 12:51	MFF



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273808

Sampled: 1/25/2013 11:50

Sample ID: 13A0687-06

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0056	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 12:51	MFF
Methylene Chloride	ND	0.028	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 12:51	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.028	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 12:51	MFF
Naphthalene	ND	0.0056	mg/Kg dry	1	L-03, V-05	SW-846 8260C	1/30/13	1/30/13 12:51	MFF
n-Propylbenzene	ND	0.0028	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 12:51	MFF
Styrene	ND	0.0028	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 12:51	MFF
1,1,1,2-Tetrachloroethane	ND	0.0028	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 12:51	MFF
1,1,2,2-Tetrachloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 12:51	MFF
Tetrachloroethylene	ND	0.0028	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 12:51	MFF
Tetrahydrofuran	ND	0.014	mg/Kg dry	1	V-16	SW-846 8260C	1/30/13	1/30/13 12:51	MFF
Toluene	ND	0.0028	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 12:51	MFF
1,2,3-Trichlorobenzene	ND	0.0028	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 12:51	MFF
1,2,4-Trichlorobenzene	ND	0.0028	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 12:51	MFF
1,1,1-Trichloroethane	ND	0.0028	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 12:51	MFF
1,1,2-Trichloroethane	ND	0.0028	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 12:51	MFF
Trichloroethylene	ND	0.0028	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 12:51	MFF
Trichlorofluoromethane (Freon 11)	ND	0.014	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 12:51	MFF
1,2,3-Trichloropropane	ND	0.0028	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 12:51	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.014	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 12:51	MFF
1,2,4-Trimethylbenzene	ND	0.0028	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 12:51	MFF
1,3,5-Trimethylbenzene	ND	0.0028	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 12:51	MFF
Vinyl Chloride	ND	0.014	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 12:51	MFF
m+p Xylene	ND	0.0056	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 12:51	MFF
o-Xylene	ND	0.0028	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 12:51	MFF
Surrogates	% Recovery	Recovery Limits	Flag						
1,2-Dichloroethane-d4	91.6	70-130							
Toluene-d8	103	70-130							
4-Bromofluorobenzene	99.4	70-130							



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273808

Sampled: 1/25/2013 11:50

Sample ID: 13A0687-06

Sample Matrix: Soil

## Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 12:47	CMR
Acenaphthylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 12:47	CMR
Anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 12:47	CMR
Benzo(a)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 12:47	CMR
Benzo(a)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 12:47	CMR
Benzo(b)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 12:47	CMR
Benzo(g,h,i)perylene	ND	0.18	mg/Kg dry	1	R-06	SW-846 8270D	1/29/13	1/31/13 12:47	CMR
Benzo(k)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 12:47	CMR
Chrysene	ND	0.18	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 12:47	CMR
Dibenz(a,h)anthracene	ND	0.18	mg/Kg dry	1	R-06	SW-846 8270D	1/29/13	1/31/13 12:47	CMR
Fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 12:47	CMR
Fluorene	ND	0.18	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 12:47	CMR
Indeno(1,2,3-cd)pyrene	ND	0.18	mg/Kg dry	1	R-06	SW-846 8270D	1/29/13	1/31/13 12:47	CMR
2-Methylnaphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 12:47	CMR
Naphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 12:47	CMR
Phenanthrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 12:47	CMR
Pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 12:47	CMR
Surrogates	% Recovery	Recovery Limits	Flag						
Nitrobenzene-d5	104	30-130							
2-Fluorobiphenyl	118	30-130							
Terphenyl-d14	123	30-130							



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

Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273808

Sampled: 1/25/2013 11:50

Sample ID: 13A0687-06

Sample Matrix: Soil

#### Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	ND	11	mg/Kg dry	1		CTDEP ETPH	1/30/13	1/30/13 22:00	CJM
Surrogates	% Recovery		Recovery Limits		Flag				
o-Terphenyl	71.6		50-150			1/30/13 22:00			



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273808

Sampled: 1/25/2013 11:50

Sample ID: 13A0687-06

Sample Matrix: Soil

**Metals Analyses (Total)**

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	2.7	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 18:09	KSH
Barium	24	2.7	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 18:09	KSH
Cadmium	ND	0.27	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 18:09	KSH
Chromium	7.8	0.53	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 18:09	KSH
Copper	6.2	0.53	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 18:09	KSH
Lead	3.4	0.80	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 18:09	KSH
Mercury	ND	0.027	mg/Kg dry	1		SW-846 7471B	1/30/13	1/30/13 12:41	SAJ
Nickel	5.0	0.53	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 18:09	KSH
Selenium	ND	5.3	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 18:09	KSH
Silver	ND	0.53	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 18:09	KSH
Zinc	16	1.1	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 18:09	KSH



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

Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273808

Sampled: 1/25/2013 11:50

Sample ID: 13A0687-06

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	92.6		% Wt	1		SM 2540G	1/29/13	1/30/13 9:21	RH



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273810

Sampled: 1/25/2013 12:00

Sample ID: 13A0687-08

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.21	mg/Kg dry	1	V-16	SW-846 8260C	1/30/13	1/30/13 14:39	MFF
Acrylonitrile	ND	0.013	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 14:39	MFF
Benzene	ND	0.0043	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 14:39	MFF
Bromobenzene	ND	0.0043	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 14:39	MFF
Bromodichloromethane	ND	0.0043	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 14:39	MFF
Bromoform	ND	0.0043	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 14:39	MFF
Bromomethane	ND	0.021	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 14:39	MFF
2-Butanone (MEK)	ND	0.085	mg/Kg dry	1	V-16	SW-846 8260C	1/30/13	1/30/13 14:39	MFF
n-Butylbenzene	ND	0.0043	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 14:39	MFF
sec-Butylbenzene	ND	0.0043	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 14:39	MFF
tert-Butylbenzene	ND	0.0043	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 14:39	MFF
Carbon Disulfide	ND	0.013	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 14:39	MFF
Carbon Tetrachloride	ND	0.0043	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 14:39	MFF
Chlorobenzene	ND	0.0043	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 14:39	MFF
Chlorodibromomethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 14:39	MFF
Chloroethane	ND	0.043	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 14:39	MFF
Chloroform	ND	0.0085	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 14:39	MFF
Chloromethane	ND	0.021	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 14:39	MFF
2-Chlorotoluene	ND	0.0043	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 14:39	MFF
4-Chlorotoluene	ND	0.0043	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 14:39	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0043	mg/Kg dry	1	V-16	SW-846 8260C	1/30/13	1/30/13 14:39	MFF
1,2-Dibromoethane (EDB)	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 14:39	MFF
Dibromomethane	ND	0.0043	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 14:39	MFF
1,2-Dichlorobenzene	ND	0.0043	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 14:39	MFF
1,3-Dichlorobenzene	ND	0.0043	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 14:39	MFF
1,4-Dichlorobenzene	ND	0.0043	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 14:39	MFF
trans-1,4-Dichloro-2-butene	ND	0.0085	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 14:39	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.043	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 14:39	MFF
1,1-Dichloroethane	ND	0.0043	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 14:39	MFF
1,2-Dichloroethane	ND	0.0043	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 14:39	MFF
1,1-Dichloroethylene	ND	0.0085	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 14:39	MFF
cis-1,2-Dichloroethylene	ND	0.0043	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 14:39	MFF
trans-1,2-Dichloroethylene	ND	0.0043	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 14:39	MFF
1,2-Dichloropropane	ND	0.0043	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 14:39	MFF
1,3-Dichloropropane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 14:39	MFF
2,2-Dichloropropane	ND	0.0043	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 14:39	MFF
1,1-Dichloropropene	ND	0.0043	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 14:39	MFF
cis-1,3-Dichloropropene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 14:39	MFF
trans-1,3-Dichloropropene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 14:39	MFF
Ethylbenzene	ND	0.0043	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 14:39	MFF
Hexachlorobutadiene	ND	0.0043	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 14:39	MFF
2-Hexanone (MBK)	ND	0.043	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 14:39	MFF
Isopropylbenzene (Cumene)	ND	0.0043	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 14:39	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0043	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 14:39	MFF



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273810

Sampled: 1/25/2013 12:00

Sample ID: 13A0687-08

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0085	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 14:39	MFF
Methylene Chloride	ND	0.043	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 14:39	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.043	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 14:39	MFF
Naphthalene	ND	0.0085	mg/Kg dry	1	L-03, V-05	SW-846 8260C	1/30/13	1/30/13 14:39	MFF
n-Propylbenzene	ND	0.0043	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 14:39	MFF
Styrene	ND	0.0043	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 14:39	MFF
1,1,1,2-Tetrachloroethane	ND	0.0043	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 14:39	MFF
1,1,2,2-Tetrachloroethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 14:39	MFF
Tetrachloroethylene	ND	0.0043	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 14:39	MFF
Tetrahydrofuran	ND	0.021	mg/Kg dry	1	V-16	SW-846 8260C	1/30/13	1/30/13 14:39	MFF
Toluene	ND	0.0043	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 14:39	MFF
1,2,3-Trichlorobenzene	ND	0.0043	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 14:39	MFF
1,2,4-Trichlorobenzene	ND	0.0043	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 14:39	MFF
1,1,1-Trichloroethane	ND	0.0043	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 14:39	MFF
1,1,2-Trichloroethane	ND	0.0043	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 14:39	MFF
Trichloroethylene	ND	0.0043	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 14:39	MFF
Trichlorofluoromethane (Freon 11)	ND	0.021	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 14:39	MFF
1,2,3-Trichloropropane	ND	0.0043	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 14:39	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.021	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 14:39	MFF
1,2,4-Trimethylbenzene	ND	0.0043	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 14:39	MFF
1,3,5-Trimethylbenzene	ND	0.0043	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 14:39	MFF
Vinyl Chloride	ND	0.021	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 14:39	MFF
m+p Xylene	ND	0.0085	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 14:39	MFF
o-Xylene	ND	0.0043	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 14:39	MFF
Surrogates	% Recovery	Recovery Limits	Flag						
1,2-Dichloroethane-d4	90.5	70-130							
Toluene-d8	103	70-130							
4-Bromofluorobenzene	95.7	70-130							



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273810

Sampled: 1/25/2013 12:00

Sample ID: 13A0687-08

Sample Matrix: Soil

## Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 11:46	CDT
Acenaphthylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 11:46	CDT
Anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 11:46	CDT
Benzo(a)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 11:46	CDT
Benzo(a)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 11:46	CDT
Benzo(b)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 11:46	CDT
Benzo(g,h,i)perylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 11:46	CDT
Benzo(k)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 11:46	CDT
Chrysene	ND	0.18	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 11:46	CDT
Dibenz(a,h)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 11:46	CDT
Fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 11:46	CDT
Fluorene	ND	0.18	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 11:46	CDT
Indeno(1,2,3-cd)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 11:46	CDT
2-Methylnaphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 11:46	CDT
Naphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 11:46	CDT
Phenanthrene	0.45	0.18	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 11:46	CDT
Pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 11:46	CDT
Surrogates	% Recovery	Recovery Limits	Flag						
Nitrobenzene-d5	65.2	30-130							
2-Fluorobiphenyl	70.2	30-130							
Terphenyl-d14	64.0	30-130							



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

Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273810

Sampled: 1/25/2013 12:00

Sample ID: 13A0687-08

Sample Matrix: Soil

**Petroleum Hydrocarbons Analyses**

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	200	51	mg/Kg dry	5		CTDEP ETPH	1/30/13	1/31/13 0:22	CJM
Surrogates	% Recovery		Recovery Limits		Flag				
o-Terphenyl	66.4		50-150			1/31/13 0:22			



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273810

Sampled: 1/25/2013 12:00

Sample ID: 13A0687-08

Sample Matrix: Soil

# Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	2.6	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 18:15	KSH
Barium	24	2.6	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 18:15	KSH
Cadmium	ND	0.26	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 18:15	KSH
Chromium	12	0.51	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 18:15	KSH
Copper	6.6	0.51	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 18:15	KSH
Lead	1.9	0.77	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 18:15	KSH
Mercury	ND	0.026	mg/Kg dry	1		SW-846 7471B	1/30/13	1/30/13 12:43	SAJ
Nickel	5.0	0.51	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 18:15	KSH
Selenium	ND	5.1	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 18:15	KSH
Silver	ND	0.51	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 18:15	KSH
Zinc	15	1.0	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 18:15	KSH



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

Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273810

Sampled: 1/25/2013 12:00

Sample ID: 13A0687-08

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	95.2		% Wt	1		SM 2540G	1/29/13	1/30/13 9:21	RH



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273811

Sampled: 1/25/2013 13:20

Sample ID: 13A0687-09

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.16	mg/Kg dry	1	V-16	SW-846 8260C	1/30/13	1/30/13 15:05	MFF
Acrylonitrile	ND	0.0098	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:05	MFF
Benzene	ND	0.0033	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:05	MFF
Bromobenzene	ND	0.0033	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:05	MFF
Bromodichloromethane	ND	0.0033	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:05	MFF
Bromoform	ND	0.0033	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:05	MFF
Bromomethane	ND	0.016	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:05	MFF
2-Butanone (MEK)	ND	0.066	mg/Kg dry	1	V-16	SW-846 8260C	1/30/13	1/30/13 15:05	MFF
n-Butylbenzene	ND	0.0033	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:05	MFF
sec-Butylbenzene	ND	0.0033	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:05	MFF
tert-Butylbenzene	ND	0.0033	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:05	MFF
Carbon Disulfide	ND	0.0098	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:05	MFF
Carbon Tetrachloride	ND	0.0033	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:05	MFF
Chlorobenzene	ND	0.0033	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:05	MFF
Chlorodibromomethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:05	MFF
Chloroethane	ND	0.033	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:05	MFF
Chloroform	ND	0.0066	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:05	MFF
Chloromethane	ND	0.016	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:05	MFF
2-Chlorotoluene	ND	0.0033	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:05	MFF
4-Chlorotoluene	ND	0.0033	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:05	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0033	mg/Kg dry	1	V-16	SW-846 8260C	1/30/13	1/30/13 15:05	MFF
1,2-Dibromoethane (EDB)	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:05	MFF
Dibromomethane	ND	0.0033	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:05	MFF
1,2-Dichlorobenzene	ND	0.0033	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:05	MFF
1,3-Dichlorobenzene	ND	0.0033	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:05	MFF
1,4-Dichlorobenzene	ND	0.0033	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:05	MFF
trans-1,4-Dichloro-2-butene	ND	0.0066	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:05	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.033	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:05	MFF
1,1-Dichloroethane	ND	0.0033	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:05	MFF
1,2-Dichloroethane	ND	0.0033	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:05	MFF
1,1-Dichloroethylene	ND	0.0066	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:05	MFF
cis-1,2-Dichloroethylene	ND	0.0033	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:05	MFF
trans-1,2-Dichloroethylene	ND	0.0033	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:05	MFF
1,2-Dichloropropane	ND	0.0033	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:05	MFF
1,3-Dichloropropane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:05	MFF
2,2-Dichloropropane	ND	0.0033	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:05	MFF
1,1-Dichloropropene	ND	0.0033	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:05	MFF
cis-1,3-Dichloropropene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:05	MFF
trans-1,3-Dichloropropene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:05	MFF
Ethylbenzene	ND	0.0033	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:05	MFF
Hexachlorobutadiene	ND	0.0033	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:05	MFF
2-Hexanone (MBK)	ND	0.033	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:05	MFF
Isopropylbenzene (Cumene)	ND	0.0033	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:05	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0033	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:05	MFF



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273811

Sampled: 1/25/2013 13:20

Sample ID: 13A0687-09

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0066	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:05	MFF
Methylene Chloride	ND	0.033	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:05	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.033	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:05	MFF
Naphthalene	ND	0.0066	mg/Kg dry	1	L-03, V-05	SW-846 8260C	1/30/13	1/30/13 15:05	MFF
n-Propylbenzene	ND	0.0033	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:05	MFF
Styrene	ND	0.0033	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:05	MFF
1,1,1,2-Tetrachloroethane	ND	0.0033	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:05	MFF
1,1,2,2-Tetrachloroethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:05	MFF
Tetrachloroethylene	ND	0.0033	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:05	MFF
Tetrahydrofuran	ND	0.016	mg/Kg dry	1	V-16	SW-846 8260C	1/30/13	1/30/13 15:05	MFF
Toluene	ND	0.0033	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:05	MFF
1,2,3-Trichlorobenzene	ND	0.0033	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:05	MFF
1,2,4-Trichlorobenzene	ND	0.0033	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:05	MFF
1,1,1-Trichloroethane	ND	0.0033	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:05	MFF
1,1,2-Trichloroethane	ND	0.0033	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:05	MFF
Trichloroethylene	ND	0.0033	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:05	MFF
Trichlorofluoromethane (Freon 11)	ND	0.016	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:05	MFF
1,2,3-Trichloropropane	ND	0.0033	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:05	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.016	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:05	MFF
1,2,4-Trimethylbenzene	ND	0.0033	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:05	MFF
1,3,5-Trimethylbenzene	ND	0.0033	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:05	MFF
Vinyl Chloride	ND	0.016	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:05	MFF
m+p Xylene	ND	0.0066	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:05	MFF
o-Xylene	ND	0.0033	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:05	MFF
Surrogates	% Recovery	Recovery Limits	Flag						
1,2-Dichloroethane-d4	93.1	70-130							
Toluene-d8	103	70-130							
4-Bromofluorobenzene	91.4	70-130							



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273811

Sampled: 1/25/2013 13:20

Sample ID: 13A0687-09

Sample Matrix: Soil

## Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	0.29	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 12:16	CDT
Acenaphthylene	0.77	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 12:16	CDT
Anthracene	1.7	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 12:16	CDT
Benzo(a)anthracene	5.3	0.99	mg/Kg dry	5		SW-846 8270D	1/29/13	1/31/13 14:38	CDT
Benzo(a)pyrene	3.6	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 12:16	CDT
Benzo(b)fluoranthene	4.4	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 12:16	CDT
Benzo(g,h,i)perylene	1.5	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 12:16	CDT
Benzo(k)fluoranthene	1.6	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 12:16	CDT
Chrysene	4.4	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 12:16	CDT
Dibenz(a,h)anthracene	0.42	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 12:16	CDT
Fluoranthene	11	0.99	mg/Kg dry	5		SW-846 8270D	1/29/13	1/31/13 14:38	CDT
Fluorene	0.62	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 12:16	CDT
Indeno(1,2,3-cd)pyrene	1.8	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 12:16	CDT
2-Methylnaphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 12:16	CDT
Naphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 12:16	CDT
Phenanthrene	5.7	0.99	mg/Kg dry	5		SW-846 8270D	1/29/13	1/31/13 14:38	CDT
Pyrene	10	0.99	mg/Kg dry	5		SW-846 8270D	1/29/13	1/31/13 14:38	CDT
Surrogates	% Recovery	Recovery Limits	Flag						
Nitrobenzene-d5	71.6	30-130							
Nitrobenzene-d5	79.1	30-130							
2-Fluorobiphenyl	77.5	30-130							
2-Fluorobiphenyl	91.2	30-130							
Terphenyl-d14	106	30-130							
Terphenyl-d14	80.7	30-130							



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273811

Sampled: 1/25/2013 13:20

Sample ID: 13A0687-09

Sample Matrix: Soil

## Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.023	mg/Kg dry	1		SW-846 8081B	1/30/13	2/1/13 3:59	PJG
Aldrin [2]	ND	0.0058	mg/Kg dry	1		SW-846 8081B	1/30/13	2/1/13 3:59	PJG
alpha-BHC [1]	ND	0.0058	mg/Kg dry	1		SW-846 8081B	1/30/13	2/1/13 3:59	PJG
beta-BHC [1]	ND	0.0058	mg/Kg dry	1		SW-846 8081B	1/30/13	2/1/13 3:59	PJG
delta-BHC [2]	ND	0.0058	mg/Kg dry	1		SW-846 8081B	1/30/13	2/1/13 3:59	PJG
gamma-BHC (Lindane) [1]	ND	0.0023	mg/Kg dry	1		SW-846 8081B	1/30/13	2/1/13 3:59	PJG
Chlordane [1]	ND	0.023	mg/Kg dry	1		SW-846 8081B	1/30/13	2/1/13 3:59	PJG
4,4'-DDD [2]	ND	0.0047	mg/Kg dry	1		SW-846 8081B	1/30/13	2/1/13 3:59	PJG
4,4'-DDE [2]	ND	0.0047	mg/Kg dry	1		SW-846 8081B	1/30/13	2/1/13 3:59	PJG
4,4'-DDT [1]	ND	0.0047	mg/Kg dry	1		SW-846 8081B	1/30/13	2/1/13 3:59	PJG
Dieldrin [1]	ND	0.0047	mg/Kg dry	1		SW-846 8081B	1/30/13	2/1/13 3:59	PJG
Endosulfan I [1]	ND	0.0058	mg/Kg dry	1		SW-846 8081B	1/30/13	2/1/13 3:59	PJG
Endosulfan II [1]	ND	0.0094	mg/Kg dry	1		SW-846 8081B	1/30/13	2/1/13 3:59	PJG
Endosulfan sulfate [1]	ND	0.0094	mg/Kg dry	1		SW-846 8081B	1/30/13	2/1/13 3:59	PJG
Endrin [1]	ND	0.0094	mg/Kg dry	1		SW-846 8081B	1/30/13	2/1/13 3:59	PJG
Endrin aldehyde [1]	ND	0.0094	mg/Kg dry	1		SW-846 8081B	1/30/13	2/1/13 3:59	PJG
Endrin ketone [1]	ND	0.0094	mg/Kg dry	1		SW-846 8081B	1/30/13	2/1/13 3:59	PJG
Heptachlor [1]	ND	0.0058	mg/Kg dry	1		SW-846 8081B	1/30/13	2/1/13 3:59	PJG
Heptachlor epoxide [1]	ND	0.0058	mg/Kg dry	1		SW-846 8081B	1/30/13	2/1/13 3:59	PJG
Hexachlorobenzene [1]	ND	0.0070	mg/Kg dry	1		SW-846 8081B	1/30/13	2/1/13 3:59	PJG
Methoxychlor [1]	ND	0.058	mg/Kg dry	1		SW-846 8081B	1/30/13	2/1/13 3:59	PJG
Toxaphene [1]	ND	0.12	mg/Kg dry	1		SW-846 8081B	1/30/13	2/1/13 3:59	PJG
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	63.6	30-150							
Decachlorobiphenyl [2]	85.6	30-150							
Tetrachloro-m-xylene [1]	74.4	30-150							
Tetrachloro-m-xylene [2]	72.8	30-150							



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273811

Sampled: 1/25/2013 13:20

Sample ID: 13A0687-09

Sample Matrix: Soil

### Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	1/30/13	1/31/13 14:29	JMB
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	1/30/13	1/31/13 14:29	JMB
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	1/30/13	1/31/13 14:29	JMB
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	1/30/13	1/31/13 14:29	JMB
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	1/30/13	1/31/13 14:29	JMB
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	1/30/13	1/31/13 14:29	JMB
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	1/30/13	1/31/13 14:29	JMB
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	1/30/13	1/31/13 14:29	JMB
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	1/30/13	1/31/13 14:29	JMB
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	70.5	30-150							
Decachlorobiphenyl [2]	74.0	30-150							
Tetrachloro-m-xylene [1]	82.9	30-150							
Tetrachloro-m-xylene [2]	83.5	30-150							



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

Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273811

Sampled: 1/25/2013 13:20

Sample ID: 13A0687-09

Sample Matrix: Soil

#### Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	100	58	mg/Kg dry	5		CTDEP ETPH	1/30/13	1/31/13 20:26	SCS
Surrogates	% Recovery		Recovery Limits		Flag				
o-Terphenyl	82.0		50-150			1/31/13 20:26			



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273811

Sampled: 1/25/2013 13:20

Sample ID: 13A0687-09

Sample Matrix: Soil

## Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	2.9	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 18:20	KSH
Barium	38	2.9	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 18:20	KSH
Cadmium	ND	0.29	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 18:20	KSH
Chromium	10	0.57	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 18:20	KSH
Copper	14	0.57	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 18:20	KSH
Lead	32	0.86	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 18:20	KSH
Mercury	0.13	0.029	mg/Kg dry	1		SW-846 7471B	1/30/13	1/30/13 12:44	SAJ
Nickel	6.3	0.57	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 18:20	KSH
Selenium	ND	5.7	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 18:20	KSH
Silver	ND	0.57	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 18:20	KSH
Zinc	37	1.1	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 18:20	KSH



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273811

Sampled: 1/25/2013 13:20

Sample ID: 13A0687-09

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	85.5		% Wt	1		SM 2540G	1/29/13	1/30/13 9:21	RH



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273812

Sampled: 1/25/2013 13:25

Sample ID: 13A0687-10

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.18	mg/Kg dry	1	V-16	SW-846 8260C	1/30/13	1/30/13 15:32	MFF
Acrylonitrile	ND	0.011	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:32	MFF
Benzene	ND	0.0036	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:32	MFF
Bromobenzene	ND	0.0036	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:32	MFF
Bromodichloromethane	ND	0.0036	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:32	MFF
Bromoform	ND	0.0036	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:32	MFF
Bromomethane	ND	0.018	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:32	MFF
2-Butanone (MEK)	ND	0.072	mg/Kg dry	1	V-16	SW-846 8260C	1/30/13	1/30/13 15:32	MFF
n-Butylbenzene	ND	0.0036	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:32	MFF
sec-Butylbenzene	ND	0.0036	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:32	MFF
tert-Butylbenzene	ND	0.0036	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:32	MFF
Carbon Disulfide	ND	0.011	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:32	MFF
Carbon Tetrachloride	ND	0.0036	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:32	MFF
Chlorobenzene	ND	0.0036	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:32	MFF
Chlorodibromomethane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:32	MFF
Chloroethane	ND	0.036	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:32	MFF
Chloroform	ND	0.0072	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:32	MFF
Chloromethane	ND	0.018	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:32	MFF
2-Chlorotoluene	ND	0.0036	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:32	MFF
4-Chlorotoluene	ND	0.0036	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:32	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0036	mg/Kg dry	1	V-16	SW-846 8260C	1/30/13	1/30/13 15:32	MFF
1,2-Dibromoethane (EDB)	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:32	MFF
Dibromomethane	ND	0.0036	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:32	MFF
1,2-Dichlorobenzene	ND	0.0036	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:32	MFF
1,3-Dichlorobenzene	ND	0.0036	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:32	MFF
1,4-Dichlorobenzene	ND	0.0036	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:32	MFF
trans-1,4-Dichloro-2-butene	ND	0.0072	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:32	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.036	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:32	MFF
1,1-Dichloroethane	ND	0.0036	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:32	MFF
1,2-Dichloroethane	ND	0.0036	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:32	MFF
1,1-Dichloroethylene	ND	0.0072	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:32	MFF
cis-1,2-Dichloroethylene	ND	0.0036	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:32	MFF
trans-1,2-Dichloroethylene	ND	0.0036	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:32	MFF
1,2-Dichloropropane	ND	0.0036	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:32	MFF
1,3-Dichloropropane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:32	MFF
2,2-Dichloropropane	ND	0.0036	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:32	MFF
1,1-Dichloropropene	ND	0.0036	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:32	MFF
cis-1,3-Dichloropropene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:32	MFF
trans-1,3-Dichloropropene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:32	MFF
Ethylbenzene	ND	0.0036	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:32	MFF
Hexachlorobutadiene	ND	0.0036	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:32	MFF
2-Hexanone (MBK)	ND	0.036	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:32	MFF
Isopropylbenzene (Cumene)	ND	0.0036	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:32	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0036	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:32	MFF



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273812

Sampled: 1/25/2013 13:25

Sample ID: 13A0687-10

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0072	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:32	MFF
Methylene Chloride	ND	0.036	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:32	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.036	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:32	MFF
Naphthalene	ND	0.0072	mg/Kg dry	1	L-03, V-05	SW-846 8260C	1/30/13	1/30/13 15:32	MFF
n-Propylbenzene	ND	0.0036	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:32	MFF
Styrene	ND	0.0036	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:32	MFF
1,1,1,2-Tetrachloroethane	ND	0.0036	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:32	MFF
1,1,2,2-Tetrachloroethane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:32	MFF
Tetrachloroethylene	ND	0.0036	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:32	MFF
Tetrahydrofuran	ND	0.018	mg/Kg dry	1	V-16	SW-846 8260C	1/30/13	1/30/13 15:32	MFF
Toluene	ND	0.0036	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:32	MFF
1,2,3-Trichlorobenzene	ND	0.0036	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:32	MFF
1,2,4-Trichlorobenzene	ND	0.0036	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:32	MFF
1,1,1-Trichloroethane	ND	0.0036	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:32	MFF
1,1,2-Trichloroethane	ND	0.0036	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:32	MFF
Trichloroethylene	ND	0.0036	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:32	MFF
Trichlorofluoromethane (Freon 11)	ND	0.018	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:32	MFF
1,2,3-Trichloropropane	ND	0.0036	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:32	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.018	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:32	MFF
1,2,4-Trimethylbenzene	ND	0.0036	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:32	MFF
1,3,5-Trimethylbenzene	ND	0.0036	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:32	MFF
Vinyl Chloride	ND	0.018	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:32	MFF
m+p Xylene	ND	0.0072	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:32	MFF
o-Xylene	ND	0.0036	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:32	MFF
Surrogates	% Recovery	Recovery Limits	Flag						
1,2-Dichloroethane-d4	94.0	70-130							
Toluene-d8	104	70-130							
4-Bromofluorobenzene	92.8	70-130							



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

Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273812

Sampled: 1/25/2013 13:25

Sample ID: 13A0687-10

Sample Matrix: Soil

Sample Flags: DL-03

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 14:49	CDT
Acenaphthylene	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 14:49	CDT
Anthracene	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 14:49	CDT
Benzo(a)anthracene	1.4	0.39	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 14:49	CDT
Benzo(a)pyrene	1.7	0.39	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 14:49	CDT
Benzo(b)fluoranthene	2.5	0.39	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 14:49	CDT
Benzo(g,h,i)perylene	0.60	0.39	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 14:49	CDT
Benzo(k)fluoranthene	0.82	0.39	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 14:49	CDT
Chrysene	1.6	0.39	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 14:49	CDT
Dibenz(a,h)anthracene	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 14:49	CDT
Fluoranthene	2.6	0.39	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 14:49	CDT
Fluorene	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 14:49	CDT
Indeno(1,2,3-cd)pyrene	0.89	0.39	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 14:49	CDT
2-Methylnaphthalene	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 14:49	CDT
Naphthalene	ND	0.39	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 14:49	CDT
Phenanthrene	1.2	0.39	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 14:49	CDT
Pyrene	1.9	0.39	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 14:49	CDT
Surrogates	% Recovery	Recovery Limits	Flag						
Nitrobenzene-d5	109	30-130							
2-Fluorobiphenyl	103	30-130							
Terphenyl-d14	77.8	30-130							



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

Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273812

Sampled: 1/25/2013 13:25

Sample ID: 13A0687-10

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	1/30/13	1/31/13 14:42	JMB
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	1/30/13	1/31/13 14:42	JMB
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	1/30/13	1/31/13 14:42	JMB
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	1/30/13	1/31/13 14:42	JMB
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	1/30/13	1/31/13 14:42	JMB
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	1/30/13	1/31/13 14:42	JMB
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	1/30/13	1/31/13 14:42	JMB
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	1/30/13	1/31/13 14:42	JMB
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	1/30/13	1/31/13 14:42	JMB
Surrogates	% Recovery		Recovery Limits		Flag				
Decachlorobiphenyl [1]	79.9		30-150				1/31/13 14:42		
Decachlorobiphenyl [2]	85.0		30-150				1/31/13 14:42		
Tetrachloro-m-xylene [1]	93.9		30-150				1/31/13 14:42		
Tetrachloro-m-xylene [2]	92.6		30-150				1/31/13 14:42		



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

Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273812

Sampled: 1/25/2013 13:25

Sample ID: 13A0687-10

Sample Matrix: Soil

#### Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	240	110	mg/Kg dry	10		CTDEP ETPH	1/31/13	2/1/13 12:34	SCS
Surrogates	% Recovery		Recovery Limits		Flag				
o-Terphenyl	68.8		50-150			2/1/13 12:34			



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273812

Sampled: 1/25/2013 13:25

Sample ID: 13A0687-10

Sample Matrix: Soil

#### Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	2.8	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 18:26	KSH
Barium	41	2.8	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 18:26	KSH
Cadmium	ND	0.28	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 18:26	KSH
Chromium	11	0.57	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 18:26	KSH
Copper	10	0.57	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 18:26	KSH
Lead	18	0.85	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 18:26	KSH
Mercury	0.036	0.029	mg/Kg dry	1		SW-846 7471B	1/30/13	1/30/13 12:46	SAJ
Nickel	6.3	0.57	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 18:26	KSH
Selenium	ND	5.7	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 18:26	KSH
Silver	ND	0.57	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 18:26	KSH
Zinc	36	1.1	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 18:26	KSH



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

Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273812

Sampled: 1/25/2013 13:25

Sample ID: 13A0687-10

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	85.9		% Wt	1		SM 2540G	1/29/13	1/30/13 9:21	RH



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273813

Sampled: 1/25/2013 13:45

Sample ID: 13A0687-11

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.20	mg/Kg dry	1	V-16	SW-846 8260C	1/30/13	1/30/13 15:59	MFF
Acrylonitrile	ND	0.012	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:59	MFF
Benzene	ND	0.0041	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:59	MFF
Bromobenzene	ND	0.0041	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:59	MFF
Bromodichloromethane	ND	0.0041	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:59	MFF
Bromoform	ND	0.0041	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:59	MFF
Bromomethane	ND	0.020	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:59	MFF
2-Butanone (MEK)	ND	0.081	mg/Kg dry	1	V-16	SW-846 8260C	1/30/13	1/30/13 15:59	MFF
n-Butylbenzene	ND	0.0041	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:59	MFF
sec-Butylbenzene	ND	0.0041	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:59	MFF
tert-Butylbenzene	ND	0.0041	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:59	MFF
Carbon Disulfide	ND	0.012	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:59	MFF
Carbon Tetrachloride	ND	0.0041	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:59	MFF
Chlorobenzene	ND	0.0041	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:59	MFF
Chlorodibromomethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:59	MFF
Chloroethane	ND	0.041	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:59	MFF
Chloroform	ND	0.0081	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:59	MFF
Chloromethane	ND	0.020	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:59	MFF
2-Chlorotoluene	ND	0.0041	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:59	MFF
4-Chlorotoluene	ND	0.0041	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:59	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0041	mg/Kg dry	1	V-16	SW-846 8260C	1/30/13	1/30/13 15:59	MFF
1,2-Dibromoethane (EDB)	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:59	MFF
Dibromomethane	ND	0.0041	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:59	MFF
1,2-Dichlorobenzene	ND	0.0041	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:59	MFF
1,3-Dichlorobenzene	ND	0.0041	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:59	MFF
1,4-Dichlorobenzene	ND	0.0041	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:59	MFF
trans-1,4-Dichloro-2-butene	ND	0.0081	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:59	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.041	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:59	MFF
1,1-Dichloroethane	ND	0.0041	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:59	MFF
1,2-Dichloroethane	ND	0.0041	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:59	MFF
1,1-Dichloroethylene	ND	0.0081	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:59	MFF
cis-1,2-Dichloroethylene	ND	0.0041	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:59	MFF
trans-1,2-Dichloroethylene	ND	0.0041	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:59	MFF
1,2-Dichloropropane	ND	0.0041	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:59	MFF
1,3-Dichloropropane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:59	MFF
2,2-Dichloropropane	ND	0.0041	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:59	MFF
1,1-Dichloropropene	ND	0.0041	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:59	MFF
cis-1,3-Dichloropropene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:59	MFF
trans-1,3-Dichloropropene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:59	MFF
Ethylbenzene	ND	0.0041	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:59	MFF
Hexachlorobutadiene	ND	0.0041	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:59	MFF
2-Hexanone (MBK)	ND	0.041	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:59	MFF
Isopropylbenzene (Cumene)	ND	0.0041	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:59	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0041	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:59	MFF



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273813

Sampled: 1/25/2013 13:45

Sample ID: 13A0687-11

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0081	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:59	MFF
Methylene Chloride	ND	0.041	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:59	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.041	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:59	MFF
Naphthalene	ND	0.0081	mg/Kg dry	1	V-05, L-03	SW-846 8260C	1/30/13	1/30/13 15:59	MFF
n-Propylbenzene	ND	0.0041	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:59	MFF
Styrene	ND	0.0041	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:59	MFF
1,1,1,2-Tetrachloroethane	ND	0.0041	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:59	MFF
1,1,2,2-Tetrachloroethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:59	MFF
Tetrachloroethylene	ND	0.0041	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:59	MFF
Tetrahydrofuran	ND	0.020	mg/Kg dry	1	V-16	SW-846 8260C	1/30/13	1/30/13 15:59	MFF
Toluene	ND	0.0041	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:59	MFF
1,2,3-Trichlorobenzene	ND	0.0041	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:59	MFF
1,2,4-Trichlorobenzene	ND	0.0041	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:59	MFF
1,1,1-Trichloroethane	ND	0.0041	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:59	MFF
1,1,2-Trichloroethane	ND	0.0041	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:59	MFF
Trichloroethylene	ND	0.0041	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:59	MFF
Trichlorofluoromethane (Freon 11)	ND	0.020	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:59	MFF
1,2,3-Trichloropropane	ND	0.0041	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:59	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.020	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:59	MFF
1,2,4-Trimethylbenzene	ND	0.0041	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:59	MFF
1,3,5-Trimethylbenzene	ND	0.0041	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:59	MFF
Vinyl Chloride	ND	0.020	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:59	MFF
m+p Xylene	ND	0.0081	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:59	MFF
o-Xylene	ND	0.0041	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 15:59	MFF
Surrogates	% Recovery	Recovery Limits	Flag						
1,2-Dichloroethane-d4	94.2	70-130							
Toluene-d8	104	70-130							
4-Bromofluorobenzene	87.4	70-130							



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273813

Sampled: 1/25/2013 13:45

Sample ID: 13A0687-11

Sample Matrix: Soil

Sample Flags: DL-03

## Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 15:19	CDT
Acenaphthylene	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 15:19	CDT
Anthracene	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 15:19	CDT
Benzo(a)anthracene	1.6	0.38	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 15:19	CDT
Benzo(a)pyrene	1.5	0.38	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 15:19	CDT
Benzo(b)fluoranthene	2.0	0.38	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 15:19	CDT
Benzo(g,h,i)perylene	0.56	0.38	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 15:19	CDT
Benzo(k)fluoranthene	0.67	0.38	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 15:19	CDT
Chrysene	1.8	0.38	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 15:19	CDT
Dibenz(a,h)anthracene	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 15:19	CDT
Fluoranthene	3.0	0.38	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 15:19	CDT
Fluorene	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 15:19	CDT
Indeno(1,2,3-cd)pyrene	0.78	0.38	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 15:19	CDT
2-Methylnaphthalene	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 15:19	CDT
Naphthalene	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 15:19	CDT
Phenanthrene	1.4	0.38	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 15:19	CDT
Pyrene	2.6	0.38	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 15:19	CDT
Surrogates	% Recovery	Recovery Limits	Flag						
Nitrobenzene-d5	85.2	30-130							
2-Fluorobiphenyl	85.6	30-130							
Terphenyl-d14	62.9	30-130							



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273813

Sampled: 1/25/2013 13:45

Sample ID: 13A0687-11

Sample Matrix: Soil

## Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.022	mg/Kg dry	1		SW-846 8081B	1/30/13	2/1/13 4:19	PJG
Aldrin [2]	ND	0.0056	mg/Kg dry	1		SW-846 8081B	1/30/13	2/1/13 4:19	PJG
alpha-BHC [1]	ND	0.0056	mg/Kg dry	1		SW-846 8081B	1/30/13	2/1/13 4:19	PJG
beta-BHC [1]	ND	0.0056	mg/Kg dry	1		SW-846 8081B	1/30/13	2/1/13 4:19	PJG
delta-BHC [2]	ND	0.0056	mg/Kg dry	1		SW-846 8081B	1/30/13	2/1/13 4:19	PJG
gamma-BHC (Lindane) [1]	ND	0.0022	mg/Kg dry	1		SW-846 8081B	1/30/13	2/1/13 4:19	PJG
Chlordane [1]	ND	0.022	mg/Kg dry	1		SW-846 8081B	1/30/13	2/1/13 4:19	PJG
4,4'-DDD [2]	ND	0.0045	mg/Kg dry	1		SW-846 8081B	1/30/13	2/1/13 4:19	PJG
4,4'-DDE [2]	ND	0.0045	mg/Kg dry	1		SW-846 8081B	1/30/13	2/1/13 4:19	PJG
4,4'-DDT [1]	ND	0.0045	mg/Kg dry	1		SW-846 8081B	1/30/13	2/1/13 4:19	PJG
Dieldrin [1]	ND	0.0045	mg/Kg dry	1		SW-846 8081B	1/30/13	2/1/13 4:19	PJG
Endosulfan I [1]	ND	0.0056	mg/Kg dry	1		SW-846 8081B	1/30/13	2/1/13 4:19	PJG
Endosulfan II [1]	ND	0.0090	mg/Kg dry	1		SW-846 8081B	1/30/13	2/1/13 4:19	PJG
Endosulfan sulfate [1]	ND	0.0090	mg/Kg dry	1		SW-846 8081B	1/30/13	2/1/13 4:19	PJG
Endrin [1]	ND	0.0090	mg/Kg dry	1		SW-846 8081B	1/30/13	2/1/13 4:19	PJG
Endrin aldehyde [1]	ND	0.0090	mg/Kg dry	1		SW-846 8081B	1/30/13	2/1/13 4:19	PJG
Endrin ketone [1]	ND	0.0090	mg/Kg dry	1		SW-846 8081B	1/30/13	2/1/13 4:19	PJG
Heptachlor [1]	ND	0.0056	mg/Kg dry	1		SW-846 8081B	1/30/13	2/1/13 4:19	PJG
Heptachlor epoxide [1]	ND	0.0056	mg/Kg dry	1		SW-846 8081B	1/30/13	2/1/13 4:19	PJG
Hexachlorobenzene [1]	ND	0.0067	mg/Kg dry	1		SW-846 8081B	1/30/13	2/1/13 4:19	PJG
Methoxychlor [1]	ND	0.056	mg/Kg dry	1		SW-846 8081B	1/30/13	2/1/13 4:19	PJG
Toxaphene [1]	ND	0.11	mg/Kg dry	1		SW-846 8081B	1/30/13	2/1/13 4:19	PJG
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	64.8	30-150							
Decachlorobiphenyl [2]	92.7	30-150							
Tetrachloro-m-xylene [1]	69.2	30-150							
Tetrachloro-m-xylene [2]	69.5	30-150							



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273813

Sampled: 1/25/2013 13:45

Sample ID: 13A0687-11

Sample Matrix: Soil

### Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/30/13	1/31/13 14:55	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/30/13	1/31/13 14:55	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/30/13	1/31/13 14:55	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/30/13	1/31/13 14:55	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/30/13	1/31/13 14:55	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/30/13	1/31/13 14:55	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/30/13	1/31/13 14:55	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/30/13	1/31/13 14:55	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/30/13	1/31/13 14:55	JMB
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	73.9	30-150						1/31/13 14:55	
Decachlorobiphenyl [2]	79.4	30-150						1/31/13 14:55	
Tetrachloro-m-xylene [1]	82.9	30-150						1/31/13 14:55	
Tetrachloro-m-xylene [2]	80.5	30-150						1/31/13 14:55	



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

Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273813

Sampled: 1/25/2013 13:45

Sample ID: 13A0687-11

Sample Matrix: Soil

#### Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	150	56	mg/Kg dry	5		CTDEP ETPH	1/31/13	2/1/13 12:34	SCS
Surrogates	% Recovery		Recovery Limits		Flag				
o-Terphenyl	67.5		50-150			2/1/13 12:34			



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273813

Sampled: 1/25/2013 13:45

Sample ID: 13A0687-11

Sample Matrix: Soil

## Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	2.7	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 18:32	KSH
Barium	51	2.7	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 18:32	KSH
Cadmium	ND	0.27	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 18:32	KSH
Chromium	14	0.54	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 18:32	KSH
Copper	9.2	0.54	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 18:32	KSH
Lead	24	0.81	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 18:32	KSH
Mercury	0.040	0.028	mg/Kg dry	1		SW-846 7471B	1/30/13	1/30/13 12:48	SAJ
Nickel	7.4	0.54	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 18:32	KSH
Selenium	ND	5.4	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 18:32	KSH
Silver	ND	0.54	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 18:32	KSH
Zinc	50	1.1	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 18:32	KSH



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

Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273813

Sampled: 1/25/2013 13:45

Sample ID: 13A0687-11

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	88.5		% Wt	1		SM 2540G	1/29/13	1/30/13 9:21	RH



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273814

Sampled: 1/25/2013 13:50

Sample ID: 13A0687-12

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.11	mg/Kg dry	1	V-16	SW-846 8260C	1/30/13	1/30/13 16:26	MFF
Acrylonitrile	ND	0.0063	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 16:26	MFF
Benzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 16:26	MFF
Bromobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 16:26	MFF
Bromodichloromethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 16:26	MFF
Bromoform	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 16:26	MFF
Bromomethane	ND	0.011	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 16:26	MFF
2-Butanone (MEK)	ND	0.042	mg/Kg dry	1	V-16	SW-846 8260C	1/30/13	1/30/13 16:26	MFF
n-Butylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 16:26	MFF
sec-Butylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 16:26	MFF
tert-Butylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 16:26	MFF
Carbon Disulfide	ND	0.0063	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 16:26	MFF
Carbon Tetrachloride	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 16:26	MFF
Chlorobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 16:26	MFF
Chlorodibromomethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 16:26	MFF
Chloroethane	ND	0.021	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 16:26	MFF
Chloroform	ND	0.0042	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 16:26	MFF
Chloromethane	ND	0.011	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 16:26	MFF
2-Chlorotoluene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 16:26	MFF
4-Chlorotoluene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 16:26	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0021	mg/Kg dry	1	V-16	SW-846 8260C	1/30/13	1/30/13 16:26	MFF
1,2-Dibromoethane (EDB)	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 16:26	MFF
Dibromomethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 16:26	MFF
1,2-Dichlorobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 16:26	MFF
1,3-Dichlorobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 16:26	MFF
1,4-Dichlorobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 16:26	MFF
trans-1,4-Dichloro-2-butene	ND	0.0042	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 16:26	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.021	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 16:26	MFF
1,1-Dichloroethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 16:26	MFF
1,2-Dichloroethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 16:26	MFF
1,1-Dichloroethylene	ND	0.0042	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 16:26	MFF
cis-1,2-Dichloroethylene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 16:26	MFF
trans-1,2-Dichloroethylene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 16:26	MFF
1,2-Dichloropropane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 16:26	MFF
1,3-Dichloropropane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 16:26	MFF
2,2-Dichloropropane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 16:26	MFF
1,1-Dichloropropene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 16:26	MFF
cis-1,3-Dichloropropene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 16:26	MFF
trans-1,3-Dichloropropene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 16:26	MFF
Ethylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 16:26	MFF
Hexachlorobutadiene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 16:26	MFF
2-Hexanone (MBK)	ND	0.021	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 16:26	MFF
Isopropylbenzene (Cumene)	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 16:26	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 16:26	MFF



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273814

Sampled: 1/25/2013 13:50

Sample ID: 13A0687-12

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0042	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 16:26	MFF
Methylene Chloride	ND	0.021	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 16:26	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.021	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 16:26	MFF
Naphthalene	ND	0.0042	mg/Kg dry	1	L-03, V-05	SW-846 8260C	1/30/13	1/30/13 16:26	MFF
n-Propylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 16:26	MFF
Styrene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 16:26	MFF
1,1,1,2-Tetrachloroethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 16:26	MFF
1,1,2,2-Tetrachloroethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 16:26	MFF
Tetrachloroethylene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 16:26	MFF
Tetrahydrofuran	ND	0.011	mg/Kg dry	1	V-16	SW-846 8260C	1/30/13	1/30/13 16:26	MFF
Toluene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 16:26	MFF
1,2,3-Trichlorobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 16:26	MFF
1,2,4-Trichlorobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 16:26	MFF
1,1,1-Trichloroethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 16:26	MFF
1,1,2-Trichloroethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 16:26	MFF
Trichloroethylene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 16:26	MFF
Trichlorofluoromethane (Freon 11)	ND	0.011	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 16:26	MFF
1,2,3-Trichloropropane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 16:26	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.011	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 16:26	MFF
1,2,4-Trimethylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 16:26	MFF
1,3,5-Trimethylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 16:26	MFF
Vinyl Chloride	ND	0.011	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 16:26	MFF
m+p Xylene	ND	0.0042	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 16:26	MFF
o-Xylene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 16:26	MFF
Surrogates	% Recovery	Recovery Limits	Flag						
1,2-Dichloroethane-d4	94.2	70-130							
Toluene-d8	103	70-130							
4-Bromofluorobenzene	93.5	70-130							



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

Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273814

Sampled: 1/25/2013 13:50

Sample ID: 13A0687-12

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 12:50	CDT
Acenaphthylene	0.25	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 12:50	CDT
Anthracene	0.24	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 12:50	CDT
Benzo(a)anthracene	0.86	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 12:50	CDT
Benzo(a)pyrene	0.77	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 12:50	CDT
Benzo(b)fluoranthene	0.94	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 12:50	CDT
Benzo(g,h,i)perylene	0.46	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 12:50	CDT
Benzo(k)fluoranthene	0.33	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 12:50	CDT
Chrysene	0.96	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 12:50	CDT
Dibenz(a,h)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 12:50	CDT
Fluoranthene	1.6	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 12:50	CDT
Fluorene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 12:50	CDT
Indeno(1,2,3-cd)pyrene	0.51	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 12:50	CDT
2-Methylnaphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 12:50	CDT
Naphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 12:50	CDT
Phenanthrene	1.2	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 12:50	CDT
Pyrene	1.7	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 12:50	CDT
Surrogates	% Recovery		Recovery Limits		Flag				
Nitrobenzene-d5	75.1		30-130				1/31/13 12:50		
2-Fluorobiphenyl	79.2		30-130				1/31/13 12:50		
Terphenyl-d14	88.9		30-130				1/31/13 12:50		



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

Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273814

Sampled: 1/25/2013 13:50

Sample ID: 13A0687-12

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/30/13	1/31/13 15:08	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/30/13	1/31/13 15:08	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/30/13	1/31/13 15:08	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/30/13	1/31/13 15:08	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/30/13	1/31/13 15:08	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/30/13	1/31/13 15:08	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/30/13	1/31/13 15:08	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/30/13	1/31/13 15:08	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/30/13	1/31/13 15:08	JMB
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	70.1	30-150							
Decachlorobiphenyl [2]	74.7	30-150							
Tetrachloro-m-xylene [1]	82.9	30-150							
Tetrachloro-m-xylene [2]	81.1	30-150							



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

Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273814

Sampled: 1/25/2013 13:50

Sample ID: 13A0687-12

Sample Matrix: Soil

#### Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	110	56	mg/Kg dry	5		CTDEP ETPH	1/31/13	2/1/13 12:16	SCS
Surrogates	% Recovery		Recovery Limits		Flag				
o-Terphenyl	68.5		50-150			2/1/13 12:16			



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273814

Sampled: 1/25/2013 13:50

Sample ID: 13A0687-12

Sample Matrix: Soil

## Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	2.8	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 18:38	KSH
Barium	45	2.8	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 18:38	KSH
Cadmium	ND	0.28	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 18:38	KSH
Chromium	14	0.55	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 18:38	KSH
Copper	9.8	0.55	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 18:38	KSH
Lead	15	0.83	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 18:38	KSH
Mercury	0.055	0.029	mg/Kg dry	1		SW-846 7471B	1/30/13	1/30/13 12:49	SAJ
Nickel	7.7	0.55	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 18:38	KSH
Selenium	ND	5.5	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 18:38	KSH
Silver	ND	0.55	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 18:38	KSH
Zinc	42	1.1	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 18:38	KSH



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

Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273814

Sampled: 1/25/2013 13:50

Sample ID: 13A0687-12

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	87.2		% Wt	1		SM 2540G	1/29/13	1/30/13 9:21	RH



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273815

Sampled: 1/25/2013 14:00

Sample ID: 13A0687-13

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.16	mg/Kg dry	1	V-16	SW-846 8260C	1/30/13	1/30/13 16:53	MFF
Acrylonitrile	ND	0.0096	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 16:53	MFF
Benzene	ND	0.0032	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 16:53	MFF
Bromobenzene	ND	0.0032	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 16:53	MFF
Bromodichloromethane	ND	0.0032	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 16:53	MFF
Bromoform	ND	0.0032	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 16:53	MFF
Bromomethane	ND	0.016	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 16:53	MFF
2-Butanone (MEK)	ND	0.064	mg/Kg dry	1	V-16	SW-846 8260C	1/30/13	1/30/13 16:53	MFF
n-Butylbenzene	ND	0.0032	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 16:53	MFF
sec-Butylbenzene	ND	0.0032	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 16:53	MFF
tert-Butylbenzene	ND	0.0032	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 16:53	MFF
Carbon Disulfide	ND	0.0096	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 16:53	MFF
Carbon Tetrachloride	ND	0.0032	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 16:53	MFF
Chlorobenzene	ND	0.0032	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 16:53	MFF
Chlorodibromomethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 16:53	MFF
Chloroethane	ND	0.032	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 16:53	MFF
Chloroform	ND	0.0064	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 16:53	MFF
Chloromethane	ND	0.016	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 16:53	MFF
2-Chlorotoluene	ND	0.0032	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 16:53	MFF
4-Chlorotoluene	ND	0.0032	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 16:53	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0032	mg/Kg dry	1	V-16	SW-846 8260C	1/30/13	1/30/13 16:53	MFF
1,2-Dibromoethane (EDB)	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 16:53	MFF
Dibromomethane	ND	0.0032	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 16:53	MFF
1,2-Dichlorobenzene	ND	0.0032	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 16:53	MFF
1,3-Dichlorobenzene	ND	0.0032	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 16:53	MFF
1,4-Dichlorobenzene	ND	0.0032	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 16:53	MFF
trans-1,4-Dichloro-2-butene	ND	0.0064	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 16:53	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.032	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 16:53	MFF
1,1-Dichloroethane	ND	0.0032	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 16:53	MFF
1,2-Dichloroethane	ND	0.0032	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 16:53	MFF
1,1-Dichloroethylene	ND	0.0064	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 16:53	MFF
cis-1,2-Dichloroethylene	ND	0.0032	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 16:53	MFF
trans-1,2-Dichloroethylene	ND	0.0032	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 16:53	MFF
1,2-Dichloropropane	ND	0.0032	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 16:53	MFF
1,3-Dichloropropane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 16:53	MFF
2,2-Dichloropropane	ND	0.0032	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 16:53	MFF
1,1-Dichloropropene	ND	0.0032	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 16:53	MFF
cis-1,3-Dichloropropene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 16:53	MFF
trans-1,3-Dichloropropene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 16:53	MFF
Ethylbenzene	ND	0.0032	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 16:53	MFF
Hexachlorobutadiene	ND	0.0032	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 16:53	MFF
2-Hexanone (MBK)	ND	0.032	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 16:53	MFF
Isopropylbenzene (Cumene)	ND	0.0032	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 16:53	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0032	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 16:53	MFF



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273815

Sampled: 1/25/2013 14:00

Sample ID: 13A0687-13

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0064	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 16:53	MFF
Methylene Chloride	ND	0.032	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 16:53	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.032	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 16:53	MFF
Naphthalene	ND	0.0064	mg/Kg dry	1	V-05, L-03	SW-846 8260C	1/30/13	1/30/13 16:53	MFF
n-Propylbenzene	ND	0.0032	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 16:53	MFF
Styrene	ND	0.0032	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 16:53	MFF
1,1,1,2-Tetrachloroethane	ND	0.0032	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 16:53	MFF
1,1,2,2-Tetrachloroethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 16:53	MFF
Tetrachloroethylene	ND	0.0032	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 16:53	MFF
Tetrahydrofuran	ND	0.016	mg/Kg dry	1	V-16	SW-846 8260C	1/30/13	1/30/13 16:53	MFF
Toluene	ND	0.0032	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 16:53	MFF
1,2,3-Trichlorobenzene	ND	0.0032	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 16:53	MFF
1,2,4-Trichlorobenzene	ND	0.0032	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 16:53	MFF
1,1,1-Trichloroethane	ND	0.0032	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 16:53	MFF
1,1,2-Trichloroethane	ND	0.0032	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 16:53	MFF
Trichloroethylene	ND	0.0032	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 16:53	MFF
Trichlorofluoromethane (Freon 11)	ND	0.016	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 16:53	MFF
1,2,3-Trichloropropane	ND	0.0032	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 16:53	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.016	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 16:53	MFF
1,2,4-Trimethylbenzene	ND	0.0032	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 16:53	MFF
1,3,5-Trimethylbenzene	ND	0.0032	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 16:53	MFF
Vinyl Chloride	ND	0.016	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 16:53	MFF
m+p Xylene	ND	0.0064	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 16:53	MFF
o-Xylene	ND	0.0032	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 16:53	MFF
Surrogates	% Recovery	Recovery Limits	Flag						
1,2-Dichloroethane-d4	91.9	70-130							
Toluene-d8	103	70-130							
4-Bromofluorobenzene	93.2	70-130							



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273815

Sampled: 1/25/2013 14:00

Sample ID: 13A0687-13

Sample Matrix: Soil

## Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	1/29/13	2/1/13 11:03	CDT
Acenaphthylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	1/29/13	2/1/13 11:03	CDT
Anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	1/29/13	2/1/13 11:03	CDT
Benzo(a)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	1/29/13	2/1/13 11:03	CDT
Benzo(a)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	1/29/13	2/1/13 11:03	CDT
Benzo(b)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	1/29/13	2/1/13 11:03	CDT
Benzo(g,h,i)perylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	1/29/13	2/1/13 11:03	CDT
Benzo(k)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	1/29/13	2/1/13 11:03	CDT
Chrysene	ND	0.18	mg/Kg dry	1		SW-846 8270D	1/29/13	2/1/13 11:03	CDT
Dibenz(a,h)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	1/29/13	2/1/13 11:03	CDT
Fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	1/29/13	2/1/13 11:03	CDT
Fluorene	ND	0.18	mg/Kg dry	1		SW-846 8270D	1/29/13	2/1/13 11:03	CDT
Indeno(1,2,3-cd)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	1/29/13	2/1/13 11:03	CDT
2-Methylnaphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	1/29/13	2/1/13 11:03	CDT
Naphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	1/29/13	2/1/13 11:03	CDT
Phenanthrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	1/29/13	2/1/13 11:03	CDT
Pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	1/29/13	2/1/13 11:03	CDT
Surrogates	% Recovery	Recovery Limits	Flag						
Nitrobenzene-d5	79.5	30-130							
2-Fluorobiphenyl	79.4	30-130							
Terphenyl-d14	102	30-130							



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273815

Sampled: 1/25/2013 14:00

Sample ID: 13A0687-13

Sample Matrix: Soil

## Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.022	mg/Kg dry	1		SW-846 8081B	1/30/13	1/31/13 23:23	PJG
Aldrin [2]	ND	0.0054	mg/Kg dry	1		SW-846 8081B	1/30/13	1/31/13 23:23	PJG
alpha-BHC [1]	ND	0.0054	mg/Kg dry	1		SW-846 8081B	1/30/13	1/31/13 23:23	PJG
beta-BHC [1]	ND	0.0054	mg/Kg dry	1		SW-846 8081B	1/30/13	1/31/13 23:23	PJG
delta-BHC [2]	ND	0.0054	mg/Kg dry	1		SW-846 8081B	1/30/13	1/31/13 23:23	PJG
gamma-BHC (Lindane) [1]	ND	0.0022	mg/Kg dry	1		SW-846 8081B	1/30/13	1/31/13 23:23	PJG
Chlordane [1]	ND	0.022	mg/Kg dry	1		SW-846 8081B	1/30/13	1/31/13 23:23	PJG
4,4'-DDD [2]	ND	0.0043	mg/Kg dry	1		SW-846 8081B	1/30/13	1/31/13 23:23	PJG
4,4'-DDE [2]	ND	0.0043	mg/Kg dry	1		SW-846 8081B	1/30/13	1/31/13 23:23	PJG
4,4'-DDT [1]	ND	0.0043	mg/Kg dry	1		SW-846 8081B	1/30/13	1/31/13 23:23	PJG
Dieldrin [1]	ND	0.0043	mg/Kg dry	1		SW-846 8081B	1/30/13	1/31/13 23:23	PJG
Endosulfan I [1]	ND	0.0054	mg/Kg dry	1		SW-846 8081B	1/30/13	1/31/13 23:23	PJG
Endosulfan II [1]	ND	0.0087	mg/Kg dry	1		SW-846 8081B	1/30/13	1/31/13 23:23	PJG
Endosulfan sulfate [1]	ND	0.0087	mg/Kg dry	1		SW-846 8081B	1/30/13	1/31/13 23:23	PJG
Endrin [1]	ND	0.0087	mg/Kg dry	1		SW-846 8081B	1/30/13	1/31/13 23:23	PJG
Endrin aldehyde [1]	ND	0.0087	mg/Kg dry	1		SW-846 8081B	1/30/13	1/31/13 23:23	PJG
Endrin ketone [1]	ND	0.0087	mg/Kg dry	1		SW-846 8081B	1/30/13	1/31/13 23:23	PJG
Heptachlor [1]	ND	0.0054	mg/Kg dry	1		SW-846 8081B	1/30/13	1/31/13 23:23	PJG
Heptachlor epoxide [1]	ND	0.0054	mg/Kg dry	1		SW-846 8081B	1/30/13	1/31/13 23:23	PJG
Hexachlorobenzene [1]	ND	0.0065	mg/Kg dry	1		SW-846 8081B	1/30/13	1/31/13 23:23	PJG
Methoxychlor [1]	ND	0.054	mg/Kg dry	1		SW-846 8081B	1/30/13	1/31/13 23:23	PJG
Toxaphene [1]	ND	0.11	mg/Kg dry	1		SW-846 8081B	1/30/13	1/31/13 23:23	PJG
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	95.8	30-150							
Decachlorobiphenyl [2]	100	30-150							
Tetrachloro-m-xylene [1]	106	30-150							
Tetrachloro-m-xylene [2]	101	30-150							



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

Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273815

Sampled: 1/25/2013 14:00

Sample ID: 13A0687-13

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/30/13	1/31/13 15:21	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/30/13	1/31/13 15:21	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/30/13	1/31/13 15:21	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/30/13	1/31/13 15:21	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/30/13	1/31/13 15:21	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/30/13	1/31/13 15:21	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/30/13	1/31/13 15:21	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/30/13	1/31/13 15:21	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/30/13	1/31/13 15:21	JMB
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	73.4	30-150							
Decachlorobiphenyl [2]	76.6	30-150							
Tetrachloro-m-xylene [1]	96.2	30-150							
Tetrachloro-m-xylene [2]	96.1	30-150							



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

Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273815

Sampled: 1/25/2013 14:00

Sample ID: 13A0687-13

Sample Matrix: Soil

#### Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	ND	11	mg/Kg dry	1		CTDEP ETPH	1/31/13	2/1/13 11:23	SCS
Surrogates	% Recovery		Recovery Limits		Flag				
o-Terphenyl	56.8		50-150			2/1/13 11:23			



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273815

Sampled: 1/25/2013 14:00

Sample ID: 13A0687-13

Sample Matrix: Soil

**Metals Analyses (Total)**

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	2.6	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 18:43	KSH
Barium	34	2.6	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 18:43	KSH
Cadmium	ND	0.26	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 18:43	KSH
Chromium	8.7	0.51	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 18:43	KSH
Copper	8.4	0.51	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 18:43	KSH
Lead	2.0	0.77	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 18:43	KSH
Mercury	ND	0.027	mg/Kg dry	1		SW-846 7471B	1/30/13	1/30/13 12:51	SAJ
Nickel	4.8	0.51	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 18:43	KSH
Selenium	ND	5.1	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 18:43	KSH
Silver	ND	0.51	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 18:43	KSH
Zinc	15	1.0	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 18:43	KSH



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

Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273815

Sampled: 1/25/2013 14:00

Sample ID: 13A0687-13

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	92.4		% Wt	1		SM 2540G	1/29/13	1/30/13 9:21	RH



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273816

Sampled: 1/25/2013 14:00

Sample ID: 13A0687-14

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.27	mg/Kg dry	1	V-16	SW-846 8260C	1/30/13	1/30/13 17:20	MFF
Acrylonitrile	ND	0.016	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 17:20	MFF
Benzene	ND	0.0054	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 17:20	MFF
Bromobenzene	ND	0.0054	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 17:20	MFF
Bromodichloromethane	ND	0.0054	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 17:20	MFF
Bromoform	ND	0.0054	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 17:20	MFF
Bromomethane	ND	0.027	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 17:20	MFF
2-Butanone (MEK)	ND	0.11	mg/Kg dry	1	V-16	SW-846 8260C	1/30/13	1/30/13 17:20	MFF
n-Butylbenzene	ND	0.0054	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 17:20	MFF
sec-Butylbenzene	ND	0.0054	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 17:20	MFF
tert-Butylbenzene	ND	0.0054	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 17:20	MFF
Carbon Disulfide	ND	0.016	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 17:20	MFF
Carbon Tetrachloride	ND	0.0054	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 17:20	MFF
Chlorobenzene	ND	0.0054	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 17:20	MFF
Chlorodibromomethane	ND	0.0027	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 17:20	MFF
Chloroethane	ND	0.054	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 17:20	MFF
Chloroform	ND	0.011	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 17:20	MFF
Chloromethane	ND	0.027	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 17:20	MFF
2-Chlorotoluene	ND	0.0054	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 17:20	MFF
4-Chlorotoluene	ND	0.0054	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 17:20	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0054	mg/Kg dry	1	V-16	SW-846 8260C	1/30/13	1/30/13 17:20	MFF
1,2-Dibromoethane (EDB)	ND	0.0027	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 17:20	MFF
Dibromomethane	ND	0.0054	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 17:20	MFF
1,2-Dichlorobenzene	ND	0.0054	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 17:20	MFF
1,3-Dichlorobenzene	ND	0.0054	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 17:20	MFF
1,4-Dichlorobenzene	ND	0.0054	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 17:20	MFF
trans-1,4-Dichloro-2-butene	ND	0.011	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 17:20	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.054	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 17:20	MFF
1,1-Dichloroethane	ND	0.0054	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 17:20	MFF
1,2-Dichloroethane	ND	0.0054	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 17:20	MFF
1,1-Dichloroethylene	ND	0.011	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 17:20	MFF
cis-1,2-Dichloroethylene	ND	0.0054	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 17:20	MFF
trans-1,2-Dichloroethylene	ND	0.0054	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 17:20	MFF
1,2-Dichloropropane	ND	0.0054	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 17:20	MFF
1,3-Dichloropropane	ND	0.0027	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 17:20	MFF
2,2-Dichloropropane	ND	0.0054	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 17:20	MFF
1,1-Dichloropropene	ND	0.0054	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 17:20	MFF
cis-1,3-Dichloropropene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 17:20	MFF
trans-1,3-Dichloropropene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 17:20	MFF
Ethylbenzene	ND	0.0054	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 17:20	MFF
Hexachlorobutadiene	ND	0.0054	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 17:20	MFF
2-Hexanone (MBK)	ND	0.054	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 17:20	MFF
Isopropylbenzene (Cumene)	ND	0.0054	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 17:20	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0054	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 17:20	MFF



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273816

Sampled: 1/25/2013 14:00

Sample ID: 13A0687-14

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.011	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 17:20	MFF
Methylene Chloride	ND	0.054	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 17:20	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.054	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 17:20	MFF
Naphthalene	ND	0.011	mg/Kg dry	1	L-03, V-05	SW-846 8260C	1/30/13	1/30/13 17:20	MFF
n-Propylbenzene	ND	0.0054	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 17:20	MFF
Styrene	ND	0.0054	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 17:20	MFF
1,1,1,2-Tetrachloroethane	ND	0.0054	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 17:20	MFF
1,1,2,2-Tetrachloroethane	ND	0.0027	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 17:20	MFF
Tetrachloroethylene	ND	0.0054	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 17:20	MFF
Tetrahydrofuran	ND	0.027	mg/Kg dry	1	V-16	SW-846 8260C	1/30/13	1/30/13 17:20	MFF
Toluene	ND	0.0054	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 17:20	MFF
1,2,3-Trichlorobenzene	ND	0.0054	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 17:20	MFF
1,2,4-Trichlorobenzene	ND	0.0054	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 17:20	MFF
1,1,1-Trichloroethane	ND	0.0054	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 17:20	MFF
1,1,2-Trichloroethane	ND	0.0054	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 17:20	MFF
Trichloroethylene	ND	0.0054	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 17:20	MFF
Trichlorofluoromethane (Freon 11)	ND	0.027	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 17:20	MFF
1,2,3-Trichloropropane	ND	0.0054	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 17:20	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.027	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 17:20	MFF
1,2,4-Trimethylbenzene	ND	0.0054	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 17:20	MFF
1,3,5-Trimethylbenzene	ND	0.0054	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 17:20	MFF
Vinyl Chloride	ND	0.027	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 17:20	MFF
m+p Xylene	ND	0.011	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 17:20	MFF
o-Xylene	ND	0.0054	mg/Kg dry	1		SW-846 8260C	1/30/13	1/30/13 17:20	MFF
Surrogates	% Recovery	Recovery Limits	Flag						
1,2-Dichloroethane-d4	92.3	70-130							
Toluene-d8	104	70-130							
4-Bromofluorobenzene	93.7	70-130							



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273816

Sampled: 1/25/2013 14:00

Sample ID: 13A0687-14

Sample Matrix: Soil

## Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	1/29/13	2/1/13 11:34	CDT
Acenaphthylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	1/29/13	2/1/13 11:34	CDT
Anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	1/29/13	2/1/13 11:34	CDT
Benzo(a)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	1/29/13	2/1/13 11:34	CDT
Benzo(a)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	1/29/13	2/1/13 11:34	CDT
Benzo(b)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	1/29/13	2/1/13 11:34	CDT
Benzo(g,h,i)perylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	1/29/13	2/1/13 11:34	CDT
Benzo(k)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	1/29/13	2/1/13 11:34	CDT
Chrysene	ND	0.18	mg/Kg dry	1		SW-846 8270D	1/29/13	2/1/13 11:34	CDT
Dibenz(a,h)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	1/29/13	2/1/13 11:34	CDT
Fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	1/29/13	2/1/13 11:34	CDT
Fluorene	ND	0.18	mg/Kg dry	1		SW-846 8270D	1/29/13	2/1/13 11:34	CDT
Indeno(1,2,3-cd)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	1/29/13	2/1/13 11:34	CDT
2-Methylnaphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	1/29/13	2/1/13 11:34	CDT
Naphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	1/29/13	2/1/13 11:34	CDT
Phenanthrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	1/29/13	2/1/13 11:34	CDT
Pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	1/29/13	2/1/13 11:34	CDT
Surrogates	% Recovery	Recovery Limits	Flag						
Nitrobenzene-d5	84.7	30-130							
2-Fluorobiphenyl	84.4	30-130							
Terphenyl-d14	103	30-130							



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273816

Sampled: 1/25/2013 14:00

Sample ID: 13A0687-14

Sample Matrix: Soil

## Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.022	mg/Kg dry	1		SW-846 8081B	1/30/13	1/31/13 23:43	PJG
Aldrin [2]	ND	0.0054	mg/Kg dry	1		SW-846 8081B	1/30/13	1/31/13 23:43	PJG
alpha-BHC [1]	ND	0.0054	mg/Kg dry	1		SW-846 8081B	1/30/13	1/31/13 23:43	PJG
beta-BHC [1]	ND	0.0054	mg/Kg dry	1		SW-846 8081B	1/30/13	1/31/13 23:43	PJG
delta-BHC [2]	ND	0.0054	mg/Kg dry	1		SW-846 8081B	1/30/13	1/31/13 23:43	PJG
gamma-BHC (Lindane) [1]	ND	0.0022	mg/Kg dry	1		SW-846 8081B	1/30/13	1/31/13 23:43	PJG
Chlordane [1]	ND	0.022	mg/Kg dry	1		SW-846 8081B	1/30/13	1/31/13 23:43	PJG
4,4'-DDD [2]	ND	0.0043	mg/Kg dry	1		SW-846 8081B	1/30/13	1/31/13 23:43	PJG
4,4'-DDE [2]	ND	0.0043	mg/Kg dry	1		SW-846 8081B	1/30/13	1/31/13 23:43	PJG
4,4'-DDT [1]	ND	0.0043	mg/Kg dry	1		SW-846 8081B	1/30/13	1/31/13 23:43	PJG
Dieldrin [1]	ND	0.0043	mg/Kg dry	1		SW-846 8081B	1/30/13	1/31/13 23:43	PJG
Endosulfan I [1]	ND	0.0054	mg/Kg dry	1		SW-846 8081B	1/30/13	1/31/13 23:43	PJG
Endosulfan II [1]	ND	0.0086	mg/Kg dry	1		SW-846 8081B	1/30/13	1/31/13 23:43	PJG
Endosulfan sulfate [1]	ND	0.0086	mg/Kg dry	1		SW-846 8081B	1/30/13	1/31/13 23:43	PJG
Endrin [1]	ND	0.0086	mg/Kg dry	1		SW-846 8081B	1/30/13	1/31/13 23:43	PJG
Endrin aldehyde [1]	ND	0.0086	mg/Kg dry	1		SW-846 8081B	1/30/13	1/31/13 23:43	PJG
Endrin ketone [1]	ND	0.0086	mg/Kg dry	1		SW-846 8081B	1/30/13	1/31/13 23:43	PJG
Heptachlor [1]	ND	0.0054	mg/Kg dry	1		SW-846 8081B	1/30/13	1/31/13 23:43	PJG
Heptachlor epoxide [1]	ND	0.0054	mg/Kg dry	1		SW-846 8081B	1/30/13	1/31/13 23:43	PJG
Hexachlorobenzene [1]	ND	0.0065	mg/Kg dry	1		SW-846 8081B	1/30/13	1/31/13 23:43	PJG
Methoxychlor [1]	ND	0.054	mg/Kg dry	1		SW-846 8081B	1/30/13	1/31/13 23:43	PJG
Toxaphene [1]	ND	0.11	mg/Kg dry	1		SW-846 8081B	1/30/13	1/31/13 23:43	PJG
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	79.2	30-150							
Decachlorobiphenyl [2]	82.3	30-150							
Tetrachloro-m-xylene [1]	85.2	30-150							
Tetrachloro-m-xylene [2]	82.5	30-150							



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273816

Sampled: 1/25/2013 14:00

Sample ID: 13A0687-14

Sample Matrix: Soil

### Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/30/13	1/31/13 15:34	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/30/13	1/31/13 15:34	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/30/13	1/31/13 15:34	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/30/13	1/31/13 15:34	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/30/13	1/31/13 15:34	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/30/13	1/31/13 15:34	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/30/13	1/31/13 15:34	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/30/13	1/31/13 15:34	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/30/13	1/31/13 15:34	JMB
Surrogates	% Recovery		Recovery Limits		Flag				
Decachlorobiphenyl [1]	72.4		30-150				1/31/13 15:34		
Decachlorobiphenyl [2]	74.7		30-150				1/31/13 15:34		
Tetrachloro-m-xylene [1]	85.7		30-150				1/31/13 15:34		
Tetrachloro-m-xylene [2]	85.4		30-150				1/31/13 15:34		



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

Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273816

Sampled: 1/25/2013 14:00

Sample ID: 13A0687-14

Sample Matrix: Soil

#### Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	13	11	mg/Kg dry	1		CTDEP ETPH	1/31/13	2/1/13 9:46	SCS
Surrogates	% Recovery		Recovery Limits		Flag				
o-Terphenyl	68.8		50-150			2/1/13 9:46			



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273816

Sampled: 1/25/2013 14:00

Sample ID: 13A0687-14

Sample Matrix: Soil

**Metals Analyses (Total)**

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	2.6	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 18:49	KSH
Barium	34	2.6	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 18:49	KSH
Cadmium	ND	0.26	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 18:49	KSH
Chromium	9.0	0.53	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 18:49	KSH
Copper	7.8	0.53	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 18:49	KSH
Lead	2.2	0.79	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 18:49	KSH
Mercury	ND	0.027	mg/Kg dry	1		SW-846 7471B	1/30/13	1/30/13 12:57	SAJ
Nickel	5.0	0.53	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 18:49	KSH
Selenium	ND	5.3	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 18:49	KSH
Silver	ND	0.53	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 18:49	KSH
Zinc	14	1.1	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 18:49	KSH



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

Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273816

Sampled: 1/25/2013 14:00

Sample ID: 13A0687-14

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	91.8		% Wt	1		SM 2540G	1/29/13	1/30/13 9:21	RH



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273819

Sampled: 1/25/2013 14:15

Sample ID: 13A0687-17

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.10	mg/Kg dry	1	V-16	SW-846 8260C	1/31/13	1/31/13 12:10	MFF
Acrylonitrile	ND	0.0062	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 12:10	MFF
Benzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 12:10	MFF
Bromobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 12:10	MFF
Bromodichloromethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 12:10	MFF
Bromoform	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 12:10	MFF
Bromomethane	ND	0.010	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 12:10	MFF
2-Butanone (MEK)	ND	0.041	mg/Kg dry	1	V-16	SW-846 8260C	1/31/13	1/31/13 12:10	MFF
n-Butylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 12:10	MFF
sec-Butylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 12:10	MFF
tert-Butylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 12:10	MFF
Carbon Disulfide	ND	0.0062	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 12:10	MFF
Carbon Tetrachloride	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 12:10	MFF
Chlorobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 12:10	MFF
Chlorodibromomethane	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 12:10	MFF
Chloroethane	ND	0.021	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 12:10	MFF
Chloroform	ND	0.0041	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 12:10	MFF
Chloromethane	ND	0.010	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 12:10	MFF
2-Chlorotoluene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 12:10	MFF
4-Chlorotoluene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 12:10	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0021	mg/Kg dry	1	V-16	SW-846 8260C	1/31/13	1/31/13 12:10	MFF
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 12:10	MFF
Dibromomethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 12:10	MFF
1,2-Dichlorobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 12:10	MFF
1,3-Dichlorobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 12:10	MFF
1,4-Dichlorobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 12:10	MFF
trans-1,4-Dichloro-2-butene	ND	0.0041	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 12:10	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.021	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 12:10	MFF
1,1-Dichloroethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 12:10	MFF
1,2-Dichloroethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 12:10	MFF
1,1-Dichloroethylene	ND	0.0041	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 12:10	MFF
cis-1,2-Dichloroethylene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 12:10	MFF
trans-1,2-Dichloroethylene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 12:10	MFF
1,2-Dichloropropane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 12:10	MFF
1,3-Dichloropropane	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 12:10	MFF
2,2-Dichloropropane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 12:10	MFF
1,1-Dichloropropene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 12:10	MFF
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 12:10	MFF
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 12:10	MFF
Ethylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 12:10	MFF
Hexachlorobutadiene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 12:10	MFF
2-Hexanone (MBK)	ND	0.021	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 12:10	MFF
Isopropylbenzene (Cumene)	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 12:10	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 12:10	MFF



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273819

Sampled: 1/25/2013 14:15

Sample ID: 13A0687-17

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0041	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 12:10	MFF
Methylene Chloride	ND	0.021	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 12:10	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.021	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 12:10	MFF
Naphthalene	ND	0.0041	mg/Kg dry	1	V-05, L-03	SW-846 8260C	1/31/13	1/31/13 12:10	MFF
n-Propylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 12:10	MFF
Styrene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 12:10	MFF
1,1,1,2-Tetrachloroethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 12:10	MFF
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 12:10	MFF
Tetrachloroethylene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 12:10	MFF
Tetrahydrofuran	ND	0.010	mg/Kg dry	1	V-16	SW-846 8260C	1/31/13	1/31/13 12:10	MFF
Toluene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 12:10	MFF
1,2,3-Trichlorobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 12:10	MFF
1,2,4-Trichlorobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 12:10	MFF
1,1,1-Trichloroethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 12:10	MFF
1,1,2-Trichloroethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 12:10	MFF
Trichloroethylene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 12:10	MFF
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 12:10	MFF
1,2,3-Trichloropropane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 12:10	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 12:10	MFF
1,2,4-Trimethylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 12:10	MFF
1,3,5-Trimethylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 12:10	MFF
Vinyl Chloride	ND	0.010	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 12:10	MFF
m+p Xylene	ND	0.0041	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 12:10	MFF
o-Xylene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 12:10	MFF
Surrogates	% Recovery	Recovery Limits	Flag						
1,2-Dichloroethane-d4	92.2	70-130							
Toluene-d8	102	70-130							
4-Bromofluorobenzene	91.2	70-130							



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273819

Sampled: 1/25/2013 14:15

Sample ID: 13A0687-17

Sample Matrix: Soil

Sample Flags: DL-03

## Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 20:45	BGL
Acenaphthylene	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 20:45	BGL
Anthracene	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 20:45	BGL
Benzo(a)anthracene	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 20:45	BGL
Benzo(a)pyrene	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 20:45	BGL
Benzo(b)fluoranthene	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 20:45	BGL
Benzo(g,h,i)perylene	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 20:45	BGL
Benzo(k)fluoranthene	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 20:45	BGL
Chrysene	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 20:45	BGL
Dibenz(a,h)anthracene	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 20:45	BGL
Fluoranthene	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 20:45	BGL
Fluorene	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 20:45	BGL
Indeno(1,2,3-cd)pyrene	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 20:45	BGL
2-Methylnaphthalene	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 20:45	BGL
Naphthalene	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 20:45	BGL
Phenanthrene	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 20:45	BGL
Pyrene	ND	0.40	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 20:45	BGL
Surrogates	% Recovery	Recovery Limits	Flag						
Nitrobenzene-d5	86.4	30-130							
2-Fluorobiphenyl	93.8	30-130							
Terphenyl-d14	116	30-130							



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273819

Sampled: 1/25/2013 14:15

Sample ID: 13A0687-17

Sample Matrix: Soil

### Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	1/30/13	1/31/13 15:47	JMB
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	1/30/13	1/31/13 15:47	JMB
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	1/30/13	1/31/13 15:47	JMB
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	1/30/13	1/31/13 15:47	JMB
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	1/30/13	1/31/13 15:47	JMB
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	1/30/13	1/31/13 15:47	JMB
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	1/30/13	1/31/13 15:47	JMB
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	1/30/13	1/31/13 15:47	JMB
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	1/30/13	1/31/13 15:47	JMB
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	70.1	30-150							
Decachlorobiphenyl [2]	72.6	30-150							
Tetrachloro-m-xylene [1]	84.7	30-150							
Tetrachloro-m-xylene [2]	84.7	30-150							



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

Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273819

Sampled: 1/25/2013 14:15

Sample ID: 13A0687-17

Sample Matrix: Soil

#### Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	27	12	mg/Kg dry	1		CTDEP ETPH	1/31/13	2/1/13 11:40	SCS
Surrogates	% Recovery		Recovery Limits		Flag				
o-Terphenyl	73.7		50-150			2/1/13 11:40			



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273819

Sampled: 1/25/2013 14:15

Sample ID: 13A0687-17

Sample Matrix: Soil

**Metals Analyses (Total)**

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	2.9	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 19:11	KSH
Barium	34	2.9	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 19:11	KSH
Cadmium	ND	0.29	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 19:11	KSH
Chromium	9.2	0.57	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 19:11	KSH
Copper	6.2	0.57	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 19:11	KSH
Lead	5.6	0.86	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 19:11	KSH
Mercury	ND	0.030	mg/Kg dry	1		SW-846 7471B	1/30/13	1/30/13 12:58	SAJ
Nickel	5.8	0.57	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 19:11	KSH
Selenium	ND	5.7	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 19:11	KSH
Silver	ND	0.57	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 19:11	KSH
Zinc	34	1.1	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 19:11	KSH



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

Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273819

Sampled: 1/25/2013 14:15

Sample ID: 13A0687-17

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.4		% Wt	1		SM 2540G	1/29/13	1/30/13 9:21	RH



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273824

Sampled: 1/25/2013 15:00

Sample ID: 13A0687-22

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.10	mg/Kg dry	1	V-16	SW-846 8260C	1/31/13	1/31/13 12:37	MFF
Acrylonitrile	ND	0.0062	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 12:37	MFF
Benzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 12:37	MFF
Bromobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 12:37	MFF
Bromodichloromethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 12:37	MFF
Bromoform	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 12:37	MFF
Bromomethane	ND	0.010	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 12:37	MFF
2-Butanone (MEK)	ND	0.041	mg/Kg dry	1	V-16	SW-846 8260C	1/31/13	1/31/13 12:37	MFF
n-Butylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 12:37	MFF
sec-Butylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 12:37	MFF
tert-Butylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 12:37	MFF
Carbon Disulfide	ND	0.0062	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 12:37	MFF
Carbon Tetrachloride	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 12:37	MFF
Chlorobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 12:37	MFF
Chlorodibromomethane	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 12:37	MFF
Chloroethane	ND	0.021	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 12:37	MFF
Chloroform	ND	0.0041	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 12:37	MFF
Chloromethane	ND	0.010	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 12:37	MFF
2-Chlorotoluene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 12:37	MFF
4-Chlorotoluene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 12:37	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0021	mg/Kg dry	1	V-16	SW-846 8260C	1/31/13	1/31/13 12:37	MFF
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 12:37	MFF
Dibromomethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 12:37	MFF
1,2-Dichlorobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 12:37	MFF
1,3-Dichlorobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 12:37	MFF
1,4-Dichlorobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 12:37	MFF
trans-1,4-Dichloro-2-butene	ND	0.0041	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 12:37	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.021	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 12:37	MFF
1,1-Dichloroethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 12:37	MFF
1,2-Dichloroethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 12:37	MFF
1,1-Dichloroethylene	ND	0.0041	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 12:37	MFF
cis-1,2-Dichloroethylene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 12:37	MFF
trans-1,2-Dichloroethylene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 12:37	MFF
1,2-Dichloropropane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 12:37	MFF
1,3-Dichloropropane	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 12:37	MFF
2,2-Dichloropropane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 12:37	MFF
1,1-Dichloropropene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 12:37	MFF
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 12:37	MFF
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 12:37	MFF
Ethylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 12:37	MFF
Hexachlorobutadiene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 12:37	MFF
2-Hexanone (MBK)	ND	0.021	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 12:37	MFF
Isopropylbenzene (Cumene)	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 12:37	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 12:37	MFF



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273824

Sampled: 1/25/2013 15:00

Sample ID: 13A0687-22

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0041	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 12:37	MFF
Methylene Chloride	ND	0.021	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 12:37	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.021	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 12:37	MFF
Naphthalene	ND	0.0041	mg/Kg dry	1	L-03, V-05	SW-846 8260C	1/31/13	1/31/13 12:37	MFF
n-Propylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 12:37	MFF
Styrene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 12:37	MFF
1,1,1,2-Tetrachloroethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 12:37	MFF
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 12:37	MFF
Tetrachloroethylene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 12:37	MFF
Tetrahydrofuran	ND	0.010	mg/Kg dry	1	V-16	SW-846 8260C	1/31/13	1/31/13 12:37	MFF
Toluene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 12:37	MFF
1,2,3-Trichlorobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 12:37	MFF
1,2,4-Trichlorobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 12:37	MFF
1,1,1-Trichloroethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 12:37	MFF
1,1,2-Trichloroethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 12:37	MFF
Trichloroethylene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 12:37	MFF
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 12:37	MFF
1,2,3-Trichloropropane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 12:37	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 12:37	MFF
1,2,4-Trimethylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 12:37	MFF
1,3,5-Trimethylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 12:37	MFF
Vinyl Chloride	ND	0.010	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 12:37	MFF
m+p Xylene	ND	0.0041	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 12:37	MFF
o-Xylene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 12:37	MFF
Surrogates	% Recovery	Recovery Limits	Flag						
1,2-Dichloroethane-d4	97.6	70-130							
Toluene-d8	100	70-130							
4-Bromofluorobenzene	94.6	70-130							



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273824

Sampled: 1/25/2013 15:00

Sample ID: 13A0687-22

Sample Matrix: Soil

Sample Flags: DL-03

## Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 13:34	CDT
Acenaphthylene	0.40	0.38	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 13:34	CDT
Anthracene	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 13:34	CDT
Benzo(a)anthracene	1.4	0.38	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 13:34	CDT
Benzo(a)pyrene	1.6	0.38	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 13:34	CDT
Benzo(b)fluoranthene	1.8	0.38	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 13:34	CDT
Benzo(g,h,i)perylene	1.3	0.38	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 13:34	CDT
Benzo(k)fluoranthene	0.63	0.38	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 13:34	CDT
Chrysene	1.6	0.38	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 13:34	CDT
Dibenz(a,h)anthracene	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 13:34	CDT
Fluoranthene	2.5	0.38	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 13:34	CDT
Fluorene	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 13:34	CDT
Indeno(1,2,3-cd)pyrene	1.3	0.38	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 13:34	CDT
2-Methylnaphthalene	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 13:34	CDT
Naphthalene	ND	0.38	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 13:34	CDT
Phenanthrene	1.7	0.38	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 13:34	CDT
Pyrene	2.7	0.38	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 13:34	CDT
Surrogates	% Recovery	Recovery Limits	Flag						
Nitrobenzene-d5	95.1	30-130							
2-Fluorobiphenyl	107	30-130							
Terphenyl-d14	112	30-130							



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273824

Sampled: 1/25/2013 15:00

Sample ID: 13A0687-22

Sample Matrix: Soil

### Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.022	mg/Kg dry	1		SW-846 8081B	1/30/13	2/1/13 4:38	PJG
Aldrin [2]	ND	0.0056	mg/Kg dry	1		SW-846 8081B	1/30/13	2/1/13 4:38	PJG
alpha-BHC [1]	ND	0.0056	mg/Kg dry	1		SW-846 8081B	1/30/13	2/1/13 4:38	PJG
beta-BHC [1]	ND	0.0056	mg/Kg dry	1		SW-846 8081B	1/30/13	2/1/13 4:38	PJG
delta-BHC [2]	ND	0.0056	mg/Kg dry	1		SW-846 8081B	1/30/13	2/1/13 4:38	PJG
gamma-BHC (Lindane) [1]	ND	0.0022	mg/Kg dry	1		SW-846 8081B	1/30/13	2/1/13 4:38	PJG
Chlordane [1]	ND	0.022	mg/Kg dry	1		SW-846 8081B	1/30/13	2/1/13 4:38	PJG
4,4'-DDD [2]	ND	0.0044	mg/Kg dry	1		SW-846 8081B	1/30/13	2/1/13 4:38	PJG
4,4'-DDE [2]	ND	0.0044	mg/Kg dry	1		SW-846 8081B	1/30/13	2/1/13 4:38	PJG
4,4'-DDT [1]	ND	0.0044	mg/Kg dry	1		SW-846 8081B	1/30/13	2/1/13 4:38	PJG
Dieldrin [1]	ND	0.0044	mg/Kg dry	1		SW-846 8081B	1/30/13	2/1/13 4:38	PJG
Endosulfan I [1]	ND	0.0056	mg/Kg dry	1		SW-846 8081B	1/30/13	2/1/13 4:38	PJG
Endosulfan II [1]	ND	0.0089	mg/Kg dry	1		SW-846 8081B	1/30/13	2/1/13 4:38	PJG
Endosulfan sulfate [1]	ND	0.0089	mg/Kg dry	1		SW-846 8081B	1/30/13	2/1/13 4:38	PJG
Endrin [1]	ND	0.0089	mg/Kg dry	1		SW-846 8081B	1/30/13	2/1/13 4:38	PJG
Endrin aldehyde [1]	ND	0.0089	mg/Kg dry	1		SW-846 8081B	1/30/13	2/1/13 4:38	PJG
Endrin ketone [1]	ND	0.0089	mg/Kg dry	1		SW-846 8081B	1/30/13	2/1/13 4:38	PJG
Heptachlor [1]	ND	0.0056	mg/Kg dry	1		SW-846 8081B	1/30/13	2/1/13 4:38	PJG
Heptachlor epoxide [1]	ND	0.0056	mg/Kg dry	1		SW-846 8081B	1/30/13	2/1/13 4:38	PJG
Hexachlorobenzene [1]	ND	0.0067	mg/Kg dry	1		SW-846 8081B	1/30/13	2/1/13 4:38	PJG
Methoxychlor [1]	ND	0.056	mg/Kg dry	1		SW-846 8081B	1/30/13	2/1/13 4:38	PJG
Toxaphene [1]	ND	0.11	mg/Kg dry	1		SW-846 8081B	1/30/13	2/1/13 4:38	PJG
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	58.5	30-150							
Decachlorobiphenyl [2]	80.6	30-150							
Tetrachloro-m-xylene [1]	65.4	30-150							
Tetrachloro-m-xylene [2]	64.2	30-150							



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

Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273824

Sampled: 1/25/2013 15:00

Sample ID: 13A0687-22

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/30/13	1/31/13 16:00	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/30/13	1/31/13 16:00	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/30/13	1/31/13 16:00	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/30/13	1/31/13 16:00	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/30/13	1/31/13 16:00	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/30/13	1/31/13 16:00	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/30/13	1/31/13 16:00	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/30/13	1/31/13 16:00	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/30/13	1/31/13 16:00	JMB
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	70.6	30-150							
Decachlorobiphenyl [2]	75.7	30-150							
Tetrachloro-m-xylene [1]	81.6	30-150							
Tetrachloro-m-xylene [2]	81.6	30-150							



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

Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273824

Sampled: 1/25/2013 15:00

Sample ID: 13A0687-22

Sample Matrix: Soil

#### Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	110	55	mg/Kg dry	5		CTDEP ETPH	1/31/13	2/1/13 11:58	SCS
Surrogates	% Recovery		Recovery Limits		Flag				
o-Terphenyl	71.3		50-150			2/1/13 11:58			



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273824

Sampled: 1/25/2013 15:00

Sample ID: 13A0687-22

Sample Matrix: Soil

## Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	2.7	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 19:16	KSH
Barium	41	2.7	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 19:16	KSH
Cadmium	ND	0.27	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 19:16	KSH
Chromium	9.5	0.54	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 19:16	KSH
Copper	9.8	0.54	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 19:16	KSH
Lead	7.3	0.81	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 19:16	KSH
Mercury	ND	0.028	mg/Kg dry	1		SW-846 7471B	1/30/13	1/30/13 13:00	SAJ
Nickel	5.6	0.54	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 19:16	KSH
Selenium	ND	5.4	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 19:16	KSH
Silver	ND	0.54	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 19:16	KSH
Zinc	31	1.1	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 19:16	KSH



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

Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273824

Sampled: 1/25/2013 15:00

Sample ID: 13A0687-22

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	90.0		% Wt	1		SM 2540G	1/29/13	1/30/13 9:21	RH



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273828

Sampled: 1/25/2013 15:00

Sample ID: 13A0687-23

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.15	mg/Kg dry	1	V-16	SW-846 8260C	1/31/13	1/31/13 13:04	MFF
Acrylonitrile	ND	0.0092	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 13:04	MFF
Benzene	ND	0.0031	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 13:04	MFF
Bromobenzene	ND	0.0031	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 13:04	MFF
Bromodichloromethane	ND	0.0031	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 13:04	MFF
Bromoform	ND	0.0031	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 13:04	MFF
Bromomethane	ND	0.015	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 13:04	MFF
2-Butanone (MEK)	ND	0.062	mg/Kg dry	1	V-16	SW-846 8260C	1/31/13	1/31/13 13:04	MFF
n-Butylbenzene	ND	0.0031	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 13:04	MFF
sec-Butylbenzene	ND	0.0031	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 13:04	MFF
tert-Butylbenzene	ND	0.0031	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 13:04	MFF
Carbon Disulfide	ND	0.0092	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 13:04	MFF
Carbon Tetrachloride	ND	0.0031	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 13:04	MFF
Chlorobenzene	ND	0.0031	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 13:04	MFF
Chlorodibromomethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 13:04	MFF
Chloroethane	ND	0.031	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 13:04	MFF
Chloroform	ND	0.0062	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 13:04	MFF
Chloromethane	ND	0.015	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 13:04	MFF
2-Chlorotoluene	ND	0.0031	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 13:04	MFF
4-Chlorotoluene	ND	0.0031	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 13:04	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0031	mg/Kg dry	1	V-16	SW-846 8260C	1/31/13	1/31/13 13:04	MFF
1,2-Dibromoethane (EDB)	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 13:04	MFF
Dibromomethane	ND	0.0031	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 13:04	MFF
1,2-Dichlorobenzene	ND	0.0031	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 13:04	MFF
1,3-Dichlorobenzene	ND	0.0031	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 13:04	MFF
1,4-Dichlorobenzene	ND	0.0031	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 13:04	MFF
trans-1,4-Dichloro-2-butene	ND	0.0062	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 13:04	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.031	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 13:04	MFF
1,1-Dichloroethane	ND	0.0031	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 13:04	MFF
1,2-Dichloroethane	ND	0.0031	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 13:04	MFF
1,1-Dichloroethylene	ND	0.0062	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 13:04	MFF
cis-1,2-Dichloroethylene	ND	0.0031	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 13:04	MFF
trans-1,2-Dichloroethylene	ND	0.0031	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 13:04	MFF
1,2-Dichloropropane	ND	0.0031	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 13:04	MFF
1,3-Dichloropropane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 13:04	MFF
2,2-Dichloropropane	ND	0.0031	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 13:04	MFF
1,1-Dichloropropene	ND	0.0031	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 13:04	MFF
cis-1,3-Dichloropropene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 13:04	MFF
trans-1,3-Dichloropropene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 13:04	MFF
Ethylbenzene	ND	0.0031	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 13:04	MFF
Hexachlorobutadiene	ND	0.0031	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 13:04	MFF
2-Hexanone (MBK)	ND	0.031	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 13:04	MFF
Isopropylbenzene (Cumene)	ND	0.0031	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 13:04	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0031	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 13:04	MFF



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273828

Sampled: 1/25/2013 15:00

Sample ID: 13A0687-23

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0062	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 13:04	MFF
Methylene Chloride	ND	0.031	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 13:04	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.031	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 13:04	MFF
Naphthalene	ND	0.0062	mg/Kg dry	1	V-05, L-03	SW-846 8260C	1/31/13	1/31/13 13:04	MFF
n-Propylbenzene	ND	0.0031	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 13:04	MFF
Styrene	ND	0.0031	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 13:04	MFF
1,1,1,2-Tetrachloroethane	ND	0.0031	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 13:04	MFF
1,1,2,2-Tetrachloroethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 13:04	MFF
Tetrachloroethylene	ND	0.0031	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 13:04	MFF
Tetrahydrofuran	ND	0.015	mg/Kg dry	1	V-16	SW-846 8260C	1/31/13	1/31/13 13:04	MFF
Toluene	ND	0.0031	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 13:04	MFF
1,2,3-Trichlorobenzene	ND	0.0031	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 13:04	MFF
1,2,4-Trichlorobenzene	ND	0.0031	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 13:04	MFF
1,1,1-Trichloroethane	ND	0.0031	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 13:04	MFF
1,1,2-Trichloroethane	ND	0.0031	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 13:04	MFF
Trichloroethylene	ND	0.0031	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 13:04	MFF
Trichlorofluoromethane (Freon 11)	ND	0.015	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 13:04	MFF
1,2,3-Trichloropropane	ND	0.0031	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 13:04	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.015	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 13:04	MFF
1,2,4-Trimethylbenzene	ND	0.0031	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 13:04	MFF
1,3,5-Trimethylbenzene	ND	0.0031	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 13:04	MFF
Vinyl Chloride	ND	0.015	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 13:04	MFF
m+p Xylene	ND	0.0062	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 13:04	MFF
o-Xylene	ND	0.0031	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 13:04	MFF
Surrogates	% Recovery	Recovery Limits	Flag						
1,2-Dichloroethane-d4	91.5	70-130							
Toluene-d8	102	70-130							
4-Bromofluorobenzene	93.8	70-130							



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273828

Sampled: 1/25/2013 15:00

Sample ID: 13A0687-23

Sample Matrix: Soil

## Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 14:06	CDT
Acenaphthylene	0.20	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 14:06	CDT
Anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 14:06	CDT
Benzo(a)anthracene	0.44	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 14:06	CDT
Benzo(a)pyrene	0.52	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 14:06	CDT
Benzo(b)fluoranthene	0.55	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 14:06	CDT
Benzo(g,h,i)perylene	0.43	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 14:06	CDT
Benzo(k)fluoranthene	0.24	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 14:06	CDT
Chrysene	0.50	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 14:06	CDT
Dibenz(a,h)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 14:06	CDT
Fluoranthene	0.85	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 14:06	CDT
Fluorene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 14:06	CDT
Indeno(1,2,3-cd)pyrene	0.46	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 14:06	CDT
2-Methylnaphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 14:06	CDT
Naphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 14:06	CDT
Phenanthrene	0.52	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 14:06	CDT
Pyrene	0.86	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 14:06	CDT
Surrogates	% Recovery		Recovery Limits		Flag				
Nitrobenzene-d5	83.5		30-130				1/31/13 14:06		
2-Fluorobiphenyl	87.2		30-130				1/31/13 14:06		
Terphenyl-d14	95.4		30-130				1/31/13 14:06		



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273828

Sampled: 1/25/2013 15:00

Sample ID: 13A0687-23

Sample Matrix: Soil

## Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.022	mg/Kg dry	1		SW-846 8081B	1/30/13	2/1/13 4:58	PJG
Aldrin [2]	ND	0.0056	mg/Kg dry	1		SW-846 8081B	1/30/13	2/1/13 4:58	PJG
alpha-BHC [1]	ND	0.0056	mg/Kg dry	1		SW-846 8081B	1/30/13	2/1/13 4:58	PJG
beta-BHC [1]	ND	0.0056	mg/Kg dry	1		SW-846 8081B	1/30/13	2/1/13 4:58	PJG
delta-BHC [2]	ND	0.0056	mg/Kg dry	1		SW-846 8081B	1/30/13	2/1/13 4:58	PJG
gamma-BHC (Lindane) [1]	ND	0.0022	mg/Kg dry	1		SW-846 8081B	1/30/13	2/1/13 4:58	PJG
Chlordane [1]	ND	0.022	mg/Kg dry	1		SW-846 8081B	1/30/13	2/1/13 4:58	PJG
4,4'-DDD [2]	ND	0.0045	mg/Kg dry	1		SW-846 8081B	1/30/13	2/1/13 4:58	PJG
4,4'-DDE [2]	ND	0.0045	mg/Kg dry	1		SW-846 8081B	1/30/13	2/1/13 4:58	PJG
4,4'-DDT [1]	ND	0.0045	mg/Kg dry	1		SW-846 8081B	1/30/13	2/1/13 4:58	PJG
Dieldrin [1]	ND	0.0045	mg/Kg dry	1		SW-846 8081B	1/30/13	2/1/13 4:58	PJG
Endosulfan I [1]	ND	0.0056	mg/Kg dry	1		SW-846 8081B	1/30/13	2/1/13 4:58	PJG
Endosulfan II [1]	ND	0.0090	mg/Kg dry	1		SW-846 8081B	1/30/13	2/1/13 4:58	PJG
Endosulfan sulfate [1]	ND	0.0090	mg/Kg dry	1		SW-846 8081B	1/30/13	2/1/13 4:58	PJG
Endrin [1]	ND	0.0090	mg/Kg dry	1		SW-846 8081B	1/30/13	2/1/13 4:58	PJG
Endrin aldehyde [1]	ND	0.0090	mg/Kg dry	1		SW-846 8081B	1/30/13	2/1/13 4:58	PJG
Endrin ketone [1]	ND	0.0090	mg/Kg dry	1		SW-846 8081B	1/30/13	2/1/13 4:58	PJG
Heptachlor [1]	ND	0.0056	mg/Kg dry	1		SW-846 8081B	1/30/13	2/1/13 4:58	PJG
Heptachlor epoxide [1]	ND	0.0056	mg/Kg dry	1		SW-846 8081B	1/30/13	2/1/13 4:58	PJG
Hexachlorobenzene [1]	ND	0.0067	mg/Kg dry	1		SW-846 8081B	1/30/13	2/1/13 4:58	PJG
Methoxychlor [1]	ND	0.056	mg/Kg dry	1		SW-846 8081B	1/30/13	2/1/13 4:58	PJG
Toxaphene [1]	ND	0.11	mg/Kg dry	1		SW-846 8081B	1/30/13	2/1/13 4:58	PJG
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	42.8	30-150							
Decachlorobiphenyl [2]	67.0	30-150							
Tetrachloro-m-xylene [1]	50.2	30-150							
Tetrachloro-m-xylene [2]	49.9	30-150							



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273828

Sampled: 1/25/2013 15:00

Sample ID: 13A0687-23

Sample Matrix: Soil

### Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/30/13	1/31/13 16:13	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/30/13	1/31/13 16:13	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/30/13	1/31/13 16:13	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/30/13	1/31/13 16:13	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/30/13	1/31/13 16:13	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/30/13	1/31/13 16:13	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/30/13	1/31/13 16:13	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/30/13	1/31/13 16:13	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/30/13	1/31/13 16:13	JMB
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	56.5	30-150							
Decachlorobiphenyl [2]	62.6	30-150							
Tetrachloro-m-xylene [1]	65.6	30-150							
Tetrachloro-m-xylene [2]	65.3	30-150							



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

Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273828

Sampled: 1/25/2013 15:00

Sample ID: 13A0687-23

Sample Matrix: Soil

#### Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	96	55	mg/Kg dry	5		CTDEP ETPH	1/31/13	2/1/13 12:16	SCS
Surrogates	% Recovery		Recovery Limits		Flag				
o-Terphenyl	70.7		50-150			2/1/13 12:16			



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273828

Sampled: 1/25/2013 15:00

Sample ID: 13A0687-23

Sample Matrix: Soil

## Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	2.7	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 19:22	KSH
Barium	41	2.7	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 19:22	KSH
Cadmium	ND	0.27	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 19:22	KSH
Chromium	7.9	0.55	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 19:22	KSH
Copper	11	0.55	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 19:22	KSH
Lead	6.9	0.82	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 19:22	KSH
Mercury	ND	0.028	mg/Kg dry	1		SW-846 7471B	1/30/13	1/30/13 13:01	SAJ
Nickel	4.0	0.55	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 19:22	KSH
Selenium	ND	5.5	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 19:22	KSH
Silver	ND	0.55	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 19:22	KSH
Zinc	38	1.1	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 19:22	KSH



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273828

Sampled: 1/25/2013 15:00

Sample ID: 13A0687-23

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	89.3		% Wt	1		SM 2540G	1/29/13	1/30/13 9:21	RH



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273825

Sampled: 1/25/2013 11:40

Sample ID: 13A0687-24

Sample Matrix: Soil

## Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 15:48	CDT
Acenaphthylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 15:48	CDT
Anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 15:48	CDT
Benzo(a)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 15:48	CDT
Benzo(a)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 15:48	CDT
Benzo(b)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 15:48	CDT
Benzo(g,h,i)perylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 15:48	CDT
Benzo(k)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 15:48	CDT
Chrysene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 15:48	CDT
Dibenz(a,h)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 15:48	CDT
Fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 15:48	CDT
Fluorene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 15:48	CDT
Indeno(1,2,3-cd)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 15:48	CDT
2-Methylnaphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 15:48	CDT
Naphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 15:48	CDT
Phenanthrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 15:48	CDT
Pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 15:48	CDT
Surrogates	% Recovery	Recovery Limits	Flag						
Nitrobenzene-d5	94.6	30-130						1/31/13 15:48	
2-Fluorobiphenyl	87.3	30-130						1/31/13 15:48	
Terphenyl-d14	75.9	30-130						1/31/13 15:48	



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

Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273825

Sampled: 1/25/2013 11:40

Sample ID: 13A0687-24

Sample Matrix: Soil

#### Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	24	11	mg/Kg dry	1		CTDEP ETPH	1/31/13	2/1/13 11:40	SCS
Surrogates	% Recovery		Recovery Limits		Flag				
o-Terphenyl	72.8		50-150			2/1/13 11:40			



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

Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273825

Sampled: 1/25/2013 11:40

Sample ID: 13A0687-24

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	88.4		% Wt	1		SM 2540G	1/30/13	1/31/13 11:33	CWB



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273826

Sampled: 1/25/2013 14:18

Sample ID: 13A0687-25

Sample Matrix: Soil

## Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 16:18	CDT
Acenaphthylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 16:18	CDT
Anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 16:18	CDT
Benzo(a)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 16:18	CDT
Benzo(a)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 16:18	CDT
Benzo(b)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 16:18	CDT
Benzo(g,h,i)perylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 16:18	CDT
Benzo(k)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 16:18	CDT
Chrysene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 16:18	CDT
Dibenz(a,h)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 16:18	CDT
Fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 16:18	CDT
Fluorene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 16:18	CDT
Indeno(1,2,3-cd)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 16:18	CDT
2-Methylnaphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 16:18	CDT
Naphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 16:18	CDT
Phenanthrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 16:18	CDT
Pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/29/13	1/31/13 16:18	CDT
Surrogates	% Recovery		Recovery Limits		Flag				
Nitrobenzene-d5	89.9		30-130				1/31/13 16:18		
2-Fluorobiphenyl	85.5		30-130				1/31/13 16:18		
Terphenyl-d14	74.3		30-130				1/31/13 16:18		



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

Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273826

Sampled: 1/25/2013 14:18

Sample ID: 13A0687-25

Sample Matrix: Soil

#### Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	20	11	mg/Kg dry	1		CTDEP ETPH	1/31/13	2/1/13 10:04	SCS
Surrogates	% Recovery		Recovery Limits		Flag				
o-Terphenyl	70.9		50-150			2/1/13 10:04			



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273826

Sampled: 1/25/2013 14:18

Sample ID: 13A0687-25

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	88.5		% Wt	1		SM 2540G	1/30/13	1/31/13 11:33	CWB



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273827

Sampled: 1/25/2013 15:10

Sample ID: 13A0687-26

Sample Matrix: Soil

## Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/31/13	1/31/13 16:17	CDT
Acenaphthylene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/31/13	1/31/13 16:17	CDT
Anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/31/13	1/31/13 16:17	CDT
Benzo(a)anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/31/13	1/31/13 16:17	CDT
Benzo(a)pyrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/31/13	1/31/13 16:17	CDT
Benzo(b)fluoranthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/31/13	1/31/13 16:17	CDT
Benzo(g,h,i)perylene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/31/13	1/31/13 16:17	CDT
Benzo(k)fluoranthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/31/13	1/31/13 16:17	CDT
Chrysene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/31/13	1/31/13 16:17	CDT
Dibenz(a,h)anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/31/13	1/31/13 16:17	CDT
Fluoranthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/31/13	1/31/13 16:17	CDT
Fluorene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/31/13	1/31/13 16:17	CDT
Indeno(1,2,3-cd)pyrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/31/13	1/31/13 16:17	CDT
2-Methylnaphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/31/13	1/31/13 16:17	CDT
Naphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/31/13	1/31/13 16:17	CDT
Phenanthrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/31/13	1/31/13 16:17	CDT
Pyrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/31/13	1/31/13 16:17	CDT
Surrogates	% Recovery	Recovery Limits	Flag						
Nitrobenzene-d5	89.1	30-130							
2-Fluorobiphenyl	99.1	30-130							
Terphenyl-d14	125	30-130							



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

Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273827

Sampled: 1/25/2013 15:10

Sample ID: 13A0687-26

Sample Matrix: Soil

#### Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	43	11	mg/Kg dry	1		CTDEP ETPH	1/31/13	2/1/13 11:23	SCS
Surrogates	% Recovery		Recovery Limits		Flag				
o-Terphenyl	67.8		50-150			2/1/13 11:23			



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

Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273827

Sampled: 1/25/2013 15:10

Sample ID: 13A0687-26

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	85.1		% Wt	1		SM 2540G	1/30/13	1/31/13 11:33	CWB



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273931

Sampled: 1/25/2013 09:30

Sample ID: 13A0687-27

Sample Matrix: Trip Blank Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.10	mg/Kg wet	1	V-16	SW-846 8260C	1/31/13	1/31/13 13:31	MFF
Acrylonitrile	ND	0.0060	mg/Kg wet	1		SW-846 8260C	1/31/13	1/31/13 13:31	MFF
Benzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/31/13	1/31/13 13:31	MFF
Bromobenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/31/13	1/31/13 13:31	MFF
Bromodichloromethane	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/31/13	1/31/13 13:31	MFF
Bromoform	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/31/13	1/31/13 13:31	MFF
Bromomethane	ND	0.010	mg/Kg wet	1		SW-846 8260C	1/31/13	1/31/13 13:31	MFF
2-Butanone (MEK)	ND	0.040	mg/Kg wet	1	V-16	SW-846 8260C	1/31/13	1/31/13 13:31	MFF
n-Butylbenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/31/13	1/31/13 13:31	MFF
sec-Butylbenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/31/13	1/31/13 13:31	MFF
tert-Butylbenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/31/13	1/31/13 13:31	MFF
Carbon Disulfide	ND	0.0060	mg/Kg wet	1		SW-846 8260C	1/31/13	1/31/13 13:31	MFF
Carbon Tetrachloride	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/31/13	1/31/13 13:31	MFF
Chlorobenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/31/13	1/31/13 13:31	MFF
Chlorodibromomethane	ND	0.0010	mg/Kg wet	1		SW-846 8260C	1/31/13	1/31/13 13:31	MFF
Chloroethane	ND	0.020	mg/Kg wet	1		SW-846 8260C	1/31/13	1/31/13 13:31	MFF
Chloroform	ND	0.0040	mg/Kg wet	1		SW-846 8260C	1/31/13	1/31/13 13:31	MFF
Chloromethane	ND	0.010	mg/Kg wet	1		SW-846 8260C	1/31/13	1/31/13 13:31	MFF
2-Chlorotoluene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/31/13	1/31/13 13:31	MFF
4-Chlorotoluene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/31/13	1/31/13 13:31	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg wet	1	V-16	SW-846 8260C	1/31/13	1/31/13 13:31	MFF
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet	1		SW-846 8260C	1/31/13	1/31/13 13:31	MFF
Dibromomethane	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/31/13	1/31/13 13:31	MFF
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/31/13	1/31/13 13:31	MFF
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/31/13	1/31/13 13:31	MFF
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/31/13	1/31/13 13:31	MFF
trans-1,4-Dichloro-2-butene	ND	0.0040	mg/Kg wet	1		SW-846 8260C	1/31/13	1/31/13 13:31	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.020	mg/Kg wet	1		SW-846 8260C	1/31/13	1/31/13 13:31	MFF
1,1-Dichloroethane	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/31/13	1/31/13 13:31	MFF
1,2-Dichloroethane	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/31/13	1/31/13 13:31	MFF
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet	1		SW-846 8260C	1/31/13	1/31/13 13:31	MFF
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/31/13	1/31/13 13:31	MFF
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/31/13	1/31/13 13:31	MFF
1,2-Dichloropropane	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/31/13	1/31/13 13:31	MFF
1,3-Dichloropropane	ND	0.0010	mg/Kg wet	1		SW-846 8260C	1/31/13	1/31/13 13:31	MFF
2,2-Dichloropropane	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/31/13	1/31/13 13:31	MFF
1,1-Dichloropropene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/31/13	1/31/13 13:31	MFF
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg wet	1		SW-846 8260C	1/31/13	1/31/13 13:31	MFF
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg wet	1		SW-846 8260C	1/31/13	1/31/13 13:31	MFF
Ethylbenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/31/13	1/31/13 13:31	MFF
Hexachlorobutadiene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/31/13	1/31/13 13:31	MFF
2-Hexanone (MBK)	ND	0.020	mg/Kg wet	1		SW-846 8260C	1/31/13	1/31/13 13:31	MFF
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/31/13	1/31/13 13:31	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/31/13	1/31/13 13:31	MFF



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273931

Sampled: 1/25/2013 09:30

Sample ID: 13A0687-27

Sample Matrix: Trip Blank Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet	1		SW-846 8260C	1/31/13	1/31/13 13:31	MFF
Methylene Chloride	ND	0.020	mg/Kg wet	1		SW-846 8260C	1/31/13	1/31/13 13:31	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet	1		SW-846 8260C	1/31/13	1/31/13 13:31	MFF
Naphthalene	ND	0.0040	mg/Kg wet	1	L-03, V-05	SW-846 8260C	1/31/13	1/31/13 13:31	MFF
n-Propylbenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/31/13	1/31/13 13:31	MFF
Styrene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/31/13	1/31/13 13:31	MFF
1,1,1,2-Tetrachloroethane	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/31/13	1/31/13 13:31	MFF
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg wet	1		SW-846 8260C	1/31/13	1/31/13 13:31	MFF
Tetrachloroethylene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/31/13	1/31/13 13:31	MFF
Tetrahydrofuran	ND	0.010	mg/Kg wet	1	V-16	SW-846 8260C	1/31/13	1/31/13 13:31	MFF
Toluene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/31/13	1/31/13 13:31	MFF
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/31/13	1/31/13 13:31	MFF
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/31/13	1/31/13 13:31	MFF
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/31/13	1/31/13 13:31	MFF
1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/31/13	1/31/13 13:31	MFF
Trichloroethylene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/31/13	1/31/13 13:31	MFF
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet	1		SW-846 8260C	1/31/13	1/31/13 13:31	MFF
1,2,3-Trichloropropane	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/31/13	1/31/13 13:31	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	mg/Kg wet	1		SW-846 8260C	1/31/13	1/31/13 13:31	MFF
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/31/13	1/31/13 13:31	MFF
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/31/13	1/31/13 13:31	MFF
Vinyl Chloride	ND	0.010	mg/Kg wet	1		SW-846 8260C	1/31/13	1/31/13 13:31	MFF
m+p Xylene	ND	0.0040	mg/Kg wet	1		SW-846 8260C	1/31/13	1/31/13 13:31	MFF
o-Xylene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/31/13	1/31/13 13:31	MFF
Surrogates	% Recovery	Recovery Limits	Flag						
1,2-Dichloroethane-d4	91.2	70-130							
Toluene-d8	103	70-130							
4-Bromofluorobenzene	96.7	70-130							



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273934

Sampled: 1/25/2013 15:40

Sample ID: 13A0687-28

Sample Matrix: Equipment Blank Water

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	5.0	µg/L	1		SW-846 8260C	1/28/13	1/30/13 23:47	MFF
Acrylonitrile	ND	2.0	µg/L	1		SW-846 8260C	1/28/13	1/30/13 23:47	MFF
Benzene	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/30/13 23:47	MFF
Bromobenzene	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/30/13 23:47	MFF
Bromodichloromethane	ND	2.0	µg/L	1		SW-846 8260C	1/28/13	1/30/13 23:47	MFF
Bromoform	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/30/13 23:47	MFF
Bromomethane	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/30/13 23:47	MFF
2-Butanone (MEK)	ND	5.0	µg/L	1		SW-846 8260C	1/28/13	1/30/13 23:47	MFF
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	1/28/13	1/30/13 23:47	MFF
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	1/28/13	1/30/13 23:47	MFF
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	1/28/13	1/30/13 23:47	MFF
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260C	1/28/13	1/30/13 23:47	MFF
Carbon Tetrachloride	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/30/13 23:47	MFF
Chlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/30/13 23:47	MFF
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/30/13 23:47	MFF
Chloroethane	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/30/13 23:47	MFF
Chloroform	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/30/13 23:47	MFF
Chloromethane	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/30/13 23:47	MFF
2-Chlorotoluene	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/30/13 23:47	MFF
4-Chlorotoluene	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/30/13 23:47	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	1.0	µg/L	1		SW-846 8260C	1/28/13	1/30/13 23:47	MFF
1,2-Dibromoethane (EDB)	ND	1.0	µg/L	1		SW-846 8260C	1/28/13	1/30/13 23:47	MFF
Dibromomethane	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/30/13 23:47	MFF
1,2-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/30/13 23:47	MFF
1,3-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/30/13 23:47	MFF
1,4-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/30/13 23:47	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	1/28/13	1/30/13 23:47	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/30/13 23:47	MFF
1,1-Dichloroethane	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/30/13 23:47	MFF
1,2-Dichloroethane	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/30/13 23:47	MFF
1,1-Dichloroethylene	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/30/13 23:47	MFF
cis-1,2-Dichloroethylene	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/30/13 23:47	MFF
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	1/28/13	1/30/13 23:47	MFF
1,2-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/30/13 23:47	MFF
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/30/13 23:47	MFF
2,2-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/30/13 23:47	MFF
1,1-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/30/13 23:47	MFF
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/30/13 23:47	MFF
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/30/13 23:47	MFF
Ethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/30/13 23:47	MFF
Hexachlorobutadiene	ND	0.40	µg/L	1		SW-846 8260C	1/28/13	1/30/13 23:47	MFF
2-Hexanone (MBK)	ND	5.0	µg/L	1		SW-846 8260C	1/28/13	1/30/13 23:47	MFF
Isopropylbenzene (Cumene)	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/30/13 23:47	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/30/13 23:47	MFF



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273934

Sampled: 1/25/2013 15:40

Sample ID: 13A0687-28

Sample Matrix: Equipment Blank Water

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/30/13 23:47	MFF
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	1/28/13	1/30/13 23:47	MFF
4-Methyl-2-pentanone (MIBK)	ND	5.0	µg/L	1		SW-846 8260C	1/28/13	1/30/13 23:47	MFF
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	1/28/13	1/30/13 23:47	MFF
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	1/28/13	1/30/13 23:47	MFF
Styrene	ND	1.0	µg/L	1		SW-846 8260C	1/28/13	1/30/13 23:47	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	1/28/13	1/30/13 23:47	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/30/13 23:47	MFF
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	1/28/13	1/30/13 23:47	MFF
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	1/28/13	1/30/13 23:47	MFF
Toluene	ND	1.0	µg/L	1		SW-846 8260C	1/28/13	1/30/13 23:47	MFF
1,2,3-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	1/28/13	1/30/13 23:47	MFF
1,2,4-Trichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/30/13 23:47	MFF
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	1/28/13	1/30/13 23:47	MFF
1,1,2-Trichloroethane	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/30/13 23:47	MFF
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	1/28/13	1/30/13 23:47	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	1/28/13	1/30/13 23:47	MFF
1,2,3-Trichloropropane	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/30/13 23:47	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/30/13 23:47	MFF
1,2,4-Trimethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/30/13 23:47	MFF
1,3,5-Trimethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/30/13 23:47	MFF
Vinyl Chloride	ND	1.0	µg/L	1		SW-846 8260C	1/28/13	1/30/13 23:47	MFF
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	1/28/13	1/30/13 23:47	MFF
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	1/28/13	1/30/13 23:47	MFF
Surrogates	% Recovery	Recovery Limits	Flag						
1,2-Dichloroethane-d4	105	70-130							
Toluene-d8	101	70-130							
4-Bromofluorobenzene	97.4	70-130							



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273934

Sampled: 1/25/2013 15:40

Sample ID: 13A0687-28

Sample Matrix: Equipment Blank Water

## Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene (low)	ND	0.30	µg/L	1		SW-846 8270D	1/28/13	1/29/13 13:57	CJM
Acenaphthylene (low)	ND	0.30	µg/L	1		SW-846 8270D	1/28/13	1/29/13 13:57	CJM
Anthracene (low)	ND	0.20	µg/L	1		SW-846 8270D	1/28/13	1/29/13 13:57	CJM
Benzo(a)anthracene (low)	ND	0.050	µg/L	1		SW-846 8270D	1/28/13	1/29/13 13:57	CJM
Benzo(a)pyrene (low)	ND	0.10	µg/L	1		SW-846 8270D	1/28/13	1/29/13 13:57	CJM
Benzo(b)fluoranthene (low)	ND	0.050	µg/L	1		SW-846 8270D	1/28/13	1/29/13 13:57	CJM
Benzo(g,h,i)perylene (low)	ND	0.50	µg/L	1		SW-846 8270D	1/28/13	1/29/13 13:57	CJM
Benzo(k)fluoranthene (low)	ND	0.20	µg/L	1		SW-846 8270D	1/28/13	1/29/13 13:57	CJM
Chrysene (low)	ND	0.20	µg/L	1		SW-846 8270D	1/28/13	1/29/13 13:57	CJM
Dibenz(a,h)anthracene (low)	ND	0.20	µg/L	1		SW-846 8270D	1/28/13	1/29/13 13:57	CJM
Fluoranthene (low)	ND	0.50	µg/L	1		SW-846 8270D	1/28/13	1/29/13 13:57	CJM
Fluorene (low)	ND	1.0	µg/L	1		SW-846 8270D	1/28/13	1/29/13 13:57	CJM
Indeno(1,2,3-cd)pyrene (low)	ND	0.20	µg/L	1		SW-846 8270D	1/28/13	1/29/13 13:57	CJM
2-Methylnaphthalene (low)	ND	1.0	µg/L	1		SW-846 8270D	1/28/13	1/29/13 13:57	CJM
Naphthalene (low)	ND	1.0	µg/L	1		SW-846 8270D	1/28/13	1/29/13 13:57	CJM
Phenanthrene (low)	ND	0.050	µg/L	1		SW-846 8270D	1/28/13	1/29/13 13:57	CJM
Pyrene (low)	ND	1.0	µg/L	1		SW-846 8270D	1/28/13	1/29/13 13:57	CJM
Surrogates	% Recovery	Recovery Limits	Flag						
Nitrobenzene-d5 (low)	82.0	30-130							
2-Fluorobiphenyl (low)	80.8	30-130							
Terphenyl-d14 (low)	91.7	30-130							



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273934

Sampled: 1/25/2013 15:40

Sample ID: 13A0687-28

Sample Matrix: Equipment Blank Water

## Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.20	µg/L	1		SW-846 8081B	1/28/13	1/29/13 18:33	JMB
Aldrin [1]	ND	0.050	µg/L	1		SW-846 8081B	1/28/13	1/29/13 18:33	JMB
alpha-BHC [1]	ND	0.050	µg/L	1		SW-846 8081B	1/28/13	1/29/13 18:33	JMB
beta-BHC [1]	ND	0.050	µg/L	1		SW-846 8081B	1/28/13	1/29/13 18:33	JMB
delta-BHC [1]	ND	0.050	µg/L	1		SW-846 8081B	1/28/13	1/29/13 18:33	JMB
gamma-BHC (Lindane) [1]	ND	0.030	µg/L	1		SW-846 8081B	1/28/13	1/29/13 18:33	JMB
Chlordane [1]	ND	0.20	µg/L	1		SW-846 8081B	1/28/13	1/29/13 18:33	JMB
4,4'-DDD [1]	ND	0.040	µg/L	1		SW-846 8081B	1/28/13	1/29/13 18:33	JMB
4,4'-DDE [1]	ND	0.040	µg/L	1		SW-846 8081B	1/28/13	1/29/13 18:33	JMB
4,4'-DDT [1]	ND	0.040	µg/L	1		SW-846 8081B	1/28/13	1/29/13 18:33	JMB
Dieldrin [1]	ND	0.0020	µg/L	1		SW-846 8081B	1/28/13	1/29/13 18:33	JMB
Endosulfan I [1]	ND	0.050	µg/L	1		SW-846 8081B	1/28/13	1/29/13 18:33	JMB
Endosulfan II [1]	ND	0.080	µg/L	1		SW-846 8081B	1/28/13	1/29/13 18:33	JMB
Endosulfan sulfate [1]	ND	0.080	µg/L	1		SW-846 8081B	1/28/13	1/29/13 18:33	JMB
Endrin [1]	ND	0.080	µg/L	1		SW-846 8081B	1/28/13	1/29/13 18:33	JMB
Endrin aldehyde [1]	ND	0.080	µg/L	1		SW-846 8081B	1/28/13	1/29/13 18:33	JMB
Endrin ketone [1]	ND	0.080	µg/L	1		SW-846 8081B	1/28/13	1/29/13 18:33	JMB
Heptachlor [1]	ND	0.050	µg/L	1		SW-846 8081B	1/28/13	1/29/13 18:33	JMB
Heptachlor epoxide [1]	ND	0.050	µg/L	1		SW-846 8081B	1/28/13	1/29/13 18:33	JMB
Hexachlorobenzene [1]	ND	0.050	µg/L	1		SW-846 8081B	1/28/13	1/29/13 18:33	JMB
Methoxychlor [1]	ND	0.50	µg/L	1		SW-846 8081B	1/28/13	1/29/13 18:33	JMB
Toxaphene [1]	ND	1.0	µg/L	1		SW-846 8081B	1/28/13	1/29/13 18:33	JMB
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	44.1	30-150							
Decachlorobiphenyl [2]	42.2	30-150							
Tetrachloro-m-xylene [1]	84.1	30-150							
Tetrachloro-m-xylene [2]	80.2	30-150							



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273934

Sampled: 1/25/2013 15:40

Sample ID: 13A0687-28

Sample Matrix: Equipment Blank Water

### Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	1/28/13	1/29/13 12:14	JMB
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	1/28/13	1/29/13 12:14	JMB
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	1/28/13	1/29/13 12:14	JMB
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	1/28/13	1/29/13 12:14	JMB
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	1/28/13	1/29/13 12:14	JMB
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	1/28/13	1/29/13 12:14	JMB
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	1/28/13	1/29/13 12:14	JMB
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	1/28/13	1/29/13 12:14	JMB
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	1/28/13	1/29/13 12:14	JMB
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	41.2	30-150							
Decachlorobiphenyl [2]	41.0	30-150							
Tetrachloro-m-xylene [1]	76.9	30-150							
Tetrachloro-m-xylene [2]	76.6	30-150							



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

Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273934

Sampled: 1/25/2013 15:40

Sample ID: 13A0687-28

Sample Matrix: Equipment Blank Water

#### Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	ND	0.075	mg/L	1		CTDEP ETPH	1/28/13	1/29/13 11:53	SCS
Surrogates	% Recovery		Recovery Limits		Flag				
o-Terphenyl	88.1		50-150			1/29/13 11:53			



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273934 UF

Sampled: 1/25/2013 15:40

Sample ID: 13A0687-29

Sample Matrix: Equipment Blank Water

**Metals Analyses (Total)**

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	2.0	µg/L	5		SW-846 6020A	1/29/13	1/29/13 13:35	KSH
Barium	ND	50	µg/L	5		SW-846 6020A	1/29/13	1/29/13 13:35	KSH
Cadmium	ND	2.5	µg/L	5		SW-846 6020A	1/29/13	1/29/13 13:35	KSH
Chromium	ND	5.0	µg/L	5		SW-846 6020A	1/29/13	1/29/13 13:35	KSH
Copper	ND	25	µg/L	5		SW-846 6020A	1/29/13	1/29/13 13:35	KSH
Lead	ND	5.0	µg/L	5		SW-846 6020A	1/29/13	1/29/13 13:35	KSH
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	1/30/13	1/30/13 12:08	SAJ
Nickel	ND	25	µg/L	5		SW-846 6020A	1/29/13	1/29/13 13:35	KSH
Selenium	ND	25	µg/L	5		SW-846 6020A	1/29/13	1/29/13 13:35	KSH
Silver	ND	2.5	µg/L	5		SW-846 6020A	1/29/13	1/29/13 13:35	KSH
Zinc	ND	50	µg/L	5		SW-846 6020A	1/29/13	1/29/13 13:35	KSH



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273934

Sampled: 1/25/2013 15:38

Sample ID: 13A0687-30

Sample Matrix: Equipment Blank Water

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	5.0	µg/L	1		SW-846 8260C	1/28/13	1/31/13 0:17	MFF
Acrylonitrile	ND	2.0	µg/L	1		SW-846 8260C	1/28/13	1/31/13 0:17	MFF
Benzene	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/31/13 0:17	MFF
Bromobenzene	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/31/13 0:17	MFF
Bromodichloromethane	ND	2.0	µg/L	1		SW-846 8260C	1/28/13	1/31/13 0:17	MFF
Bromoform	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/31/13 0:17	MFF
Bromomethane	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/31/13 0:17	MFF
2-Butanone (MEK)	ND	5.0	µg/L	1		SW-846 8260C	1/28/13	1/31/13 0:17	MFF
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	1/28/13	1/31/13 0:17	MFF
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	1/28/13	1/31/13 0:17	MFF
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	1/28/13	1/31/13 0:17	MFF
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260C	1/28/13	1/31/13 0:17	MFF
Carbon Tetrachloride	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/31/13 0:17	MFF
Chlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/31/13 0:17	MFF
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/31/13 0:17	MFF
Chloroethane	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/31/13 0:17	MFF
Chloroform	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/31/13 0:17	MFF
Chloromethane	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/31/13 0:17	MFF
2-Chlorotoluene	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/31/13 0:17	MFF
4-Chlorotoluene	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/31/13 0:17	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	1.0	µg/L	1		SW-846 8260C	1/28/13	1/31/13 0:17	MFF
1,2-Dibromoethane (EDB)	ND	1.0	µg/L	1		SW-846 8260C	1/28/13	1/31/13 0:17	MFF
Dibromomethane	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/31/13 0:17	MFF
1,2-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/31/13 0:17	MFF
1,3-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/31/13 0:17	MFF
1,4-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/31/13 0:17	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	1/28/13	1/31/13 0:17	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/31/13 0:17	MFF
1,1-Dichloroethane	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/31/13 0:17	MFF
1,2-Dichloroethane	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/31/13 0:17	MFF
1,1-Dichloroethylene	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/31/13 0:17	MFF
cis-1,2-Dichloroethylene	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/31/13 0:17	MFF
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	1/28/13	1/31/13 0:17	MFF
1,2-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/31/13 0:17	MFF
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/31/13 0:17	MFF
2,2-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/31/13 0:17	MFF
1,1-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/31/13 0:17	MFF
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/31/13 0:17	MFF
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/31/13 0:17	MFF
Ethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/31/13 0:17	MFF
Hexachlorobutadiene	ND	0.40	µg/L	1		SW-846 8260C	1/28/13	1/31/13 0:17	MFF
2-Hexanone (MBK)	ND	5.0	µg/L	1		SW-846 8260C	1/28/13	1/31/13 0:17	MFF
Isopropylbenzene (Cumene)	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/31/13 0:17	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/31/13 0:17	MFF



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273934

Sampled: 1/25/2013 15:38

Sample ID: 13A0687-30

Sample Matrix: Equipment Blank Water

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/31/13 0:17	MFF
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	1/28/13	1/31/13 0:17	MFF
4-Methyl-2-pentanone (MIBK)	ND	5.0	µg/L	1		SW-846 8260C	1/28/13	1/31/13 0:17	MFF
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	1/28/13	1/31/13 0:17	MFF
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	1/28/13	1/31/13 0:17	MFF
Styrene	ND	1.0	µg/L	1		SW-846 8260C	1/28/13	1/31/13 0:17	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	1/28/13	1/31/13 0:17	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/31/13 0:17	MFF
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	1/28/13	1/31/13 0:17	MFF
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	1/28/13	1/31/13 0:17	MFF
Toluene	ND	1.0	µg/L	1		SW-846 8260C	1/28/13	1/31/13 0:17	MFF
1,2,3-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	1/28/13	1/31/13 0:17	MFF
1,2,4-Trichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/31/13 0:17	MFF
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	1/28/13	1/31/13 0:17	MFF
1,1,2-Trichloroethane	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/31/13 0:17	MFF
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	1/28/13	1/31/13 0:17	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	1/28/13	1/31/13 0:17	MFF
1,2,3-Trichloropropane	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/31/13 0:17	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/31/13 0:17	MFF
1,2,4-Trimethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/31/13 0:17	MFF
1,3,5-Trimethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	1/28/13	1/31/13 0:17	MFF
Vinyl Chloride	ND	1.0	µg/L	1		SW-846 8260C	1/28/13	1/31/13 0:17	MFF
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	1/28/13	1/31/13 0:17	MFF
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	1/28/13	1/31/13 0:17	MFF
Surrogates	% Recovery	Recovery Limits	Flag						
1,2-Dichloroethane-d4	103	70-130							
Toluene-d8	101	70-130							
4-Bromofluorobenzene	95.4	70-130							



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

Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273934

Sampled: 1/25/2013 15:38

Sample ID: 13A0687-30

Sample Matrix: Equipment Blank Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene (low)	ND	0.33	µg/L	1		SW-846 8270D	1/28/13	1/29/13 14:26	CJM
Acenaphthylene (low)	ND	0.33	µg/L	1		SW-846 8270D	1/28/13	1/29/13 14:26	CJM
Anthracene (low)	ND	0.22	µg/L	1		SW-846 8270D	1/28/13	1/29/13 14:26	CJM
Benzo(a)anthracene (low)	ND	0.054	µg/L	1		SW-846 8270D	1/28/13	1/29/13 14:26	CJM
Benzo(a)pyrene (low)	ND	0.11	µg/L	1		SW-846 8270D	1/28/13	1/29/13 14:26	CJM
Benzo(b)fluoranthene (low)	ND	0.054	µg/L	1		SW-846 8270D	1/28/13	1/29/13 14:26	CJM
Benzo(g,h,i)perylene (low)	ND	0.54	µg/L	1		SW-846 8270D	1/28/13	1/29/13 14:26	CJM
Benzo(k)fluoranthene (low)	ND	0.22	µg/L	1		SW-846 8270D	1/28/13	1/29/13 14:26	CJM
Chrysene (low)	ND	0.22	µg/L	1		SW-846 8270D	1/28/13	1/29/13 14:26	CJM
Dibenz(a,h)anthracene (low)	ND	0.22	µg/L	1		SW-846 8270D	1/28/13	1/29/13 14:26	CJM
Fluoranthene (low)	ND	0.54	µg/L	1		SW-846 8270D	1/28/13	1/29/13 14:26	CJM
Fluorene (low)	ND	1.1	µg/L	1		SW-846 8270D	1/28/13	1/29/13 14:26	CJM
Indeno(1,2,3-cd)pyrene (low)	ND	0.22	µg/L	1		SW-846 8270D	1/28/13	1/29/13 14:26	CJM
2-Methylnaphthalene (low)	ND	1.1	µg/L	1		SW-846 8270D	1/28/13	1/29/13 14:26	CJM
Naphthalene (low)	ND	1.1	µg/L	1		SW-846 8270D	1/28/13	1/29/13 14:26	CJM
Phenanthrene (low)	ND	0.054	µg/L	1		SW-846 8270D	1/28/13	1/29/13 14:26	CJM
Pyrene (low)	ND	1.1	µg/L	1		SW-846 8270D	1/28/13	1/29/13 14:26	CJM
Surrogates	% Recovery	Recovery Limits	Flag						
Nitrobenzene-d5 (low)	75.1	30-130							
Terphenyl-d14 (low)	85.9	30-130							



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273934

Sampled: 1/25/2013 15:38

Sample ID: 13A0687-30

Sample Matrix: Equipment Blank Water

## Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.20	µg/L	1		SW-846 8081B	1/28/13	1/29/13 18:53	JMB
Aldrin [1]	ND	0.050	µg/L	1		SW-846 8081B	1/28/13	1/29/13 18:53	JMB
alpha-BHC [1]	ND	0.050	µg/L	1		SW-846 8081B	1/28/13	1/29/13 18:53	JMB
beta-BHC [1]	ND	0.050	µg/L	1		SW-846 8081B	1/28/13	1/29/13 18:53	JMB
delta-BHC [1]	ND	0.050	µg/L	1		SW-846 8081B	1/28/13	1/29/13 18:53	JMB
gamma-BHC (Lindane) [1]	ND	0.030	µg/L	1		SW-846 8081B	1/28/13	1/29/13 18:53	JMB
Chlordane [1]	ND	0.20	µg/L	1		SW-846 8081B	1/28/13	1/29/13 18:53	JMB
4,4'-DDD [1]	ND	0.040	µg/L	1		SW-846 8081B	1/28/13	1/29/13 18:53	JMB
4,4'-DDE [1]	ND	0.040	µg/L	1		SW-846 8081B	1/28/13	1/29/13 18:53	JMB
4,4'-DDT [1]	ND	0.040	µg/L	1		SW-846 8081B	1/28/13	1/29/13 18:53	JMB
Dieldrin [1]	ND	0.0020	µg/L	1		SW-846 8081B	1/28/13	1/29/13 18:53	JMB
Endosulfan I [1]	ND	0.050	µg/L	1		SW-846 8081B	1/28/13	1/29/13 18:53	JMB
Endosulfan II [1]	ND	0.080	µg/L	1		SW-846 8081B	1/28/13	1/29/13 18:53	JMB
Endosulfan sulfate [1]	ND	0.080	µg/L	1		SW-846 8081B	1/28/13	1/29/13 18:53	JMB
Endrin [1]	ND	0.080	µg/L	1		SW-846 8081B	1/28/13	1/29/13 18:53	JMB
Endrin aldehyde [1]	ND	0.080	µg/L	1		SW-846 8081B	1/28/13	1/29/13 18:53	JMB
Endrin ketone [1]	ND	0.080	µg/L	1		SW-846 8081B	1/28/13	1/29/13 18:53	JMB
Heptachlor [1]	ND	0.050	µg/L	1		SW-846 8081B	1/28/13	1/29/13 18:53	JMB
Heptachlor epoxide [1]	ND	0.050	µg/L	1		SW-846 8081B	1/28/13	1/29/13 18:53	JMB
Hexachlorobenzene [1]	ND	0.050	µg/L	1		SW-846 8081B	1/28/13	1/29/13 18:53	JMB
Methoxychlor [1]	ND	0.50	µg/L	1		SW-846 8081B	1/28/13	1/29/13 18:53	JMB
Toxaphene [1]	ND	1.0	µg/L	1		SW-846 8081B	1/28/13	1/29/13 18:53	JMB
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	62.2	30-150							
Decachlorobiphenyl [2]	78.3	30-150							
Tetrachloro-m-xylene [1]	86.5	30-150							
Tetrachloro-m-xylene [2]	82.3	30-150							



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273934

Sampled: 1/25/2013 15:38

Sample ID: 13A0687-30

Sample Matrix: Equipment Blank Water

### Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	1/28/13	1/29/13 12:27	JMB
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	1/28/13	1/29/13 12:27	JMB
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	1/28/13	1/29/13 12:27	JMB
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	1/28/13	1/29/13 12:27	JMB
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	1/28/13	1/29/13 12:27	JMB
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	1/28/13	1/29/13 12:27	JMB
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	1/28/13	1/29/13 12:27	JMB
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	1/28/13	1/29/13 12:27	JMB
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	1/28/13	1/29/13 12:27	JMB
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	75.2	30-150							
Decachlorobiphenyl [2]	76.1	30-150							
Tetrachloro-m-xylene [1]	77.2	30-150							
Tetrachloro-m-xylene [2]	76.8	30-150							



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

Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273934

Sampled: 1/25/2013 15:38

Sample ID: 13A0687-30

Sample Matrix: Equipment Blank Water

#### Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	ND	0.075	mg/L	1		CTDEP ETPH	1/28/13	1/29/13 12:10	SCS
Surrogates	% Recovery		Recovery Limits		Flag				
o-Terphenyl	85.0		50-150			1/29/13 12:10			



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273934 UF

Sampled: 1/25/2013 15:38

Sample ID: 13A0687-31

Sample Matrix: Equipment Blank Water

**Metals Analyses (Total)**

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	2.0	µg/L	5		SW-846 6020A	1/29/13	1/29/13 13:39	KSH
Barium	ND	50	µg/L	5		SW-846 6020A	1/29/13	1/29/13 13:39	KSH
Cadmium	ND	2.5	µg/L	5		SW-846 6020A	1/29/13	1/29/13 13:39	KSH
Chromium	ND	5.0	µg/L	5		SW-846 6020A	1/29/13	1/29/13 13:39	KSH
Copper	ND	25	µg/L	5		SW-846 6020A	1/29/13	1/29/13 13:39	KSH
Lead	ND	5.0	µg/L	5		SW-846 6020A	1/29/13	1/29/13 13:39	KSH
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	1/30/13	1/30/13 12:16	SAJ
Nickel	ND	25	µg/L	5		SW-846 6020A	1/29/13	1/29/13 13:39	KSH
Selenium	ND	25	µg/L	5		SW-846 6020A	1/29/13	1/29/13 13:39	KSH
Silver	ND	2.5	µg/L	5		SW-846 6020A	1/29/13	1/29/13 13:39	KSH
Zinc	ND	50	µg/L	5		SW-846 6020A	1/29/13	1/29/13 13:39	KSH



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273801

Sampled: 1/24/2013 15:55

Sample ID: 13A0687-38

Sample Matrix: Soil

## Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/31/13	1/31/13 16:50	CDT
Acenaphthylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/31/13	1/31/13 16:50	CDT
Anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/31/13	1/31/13 16:50	CDT
Benzo(a)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/31/13	1/31/13 16:50	CDT
Benzo(a)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/31/13	1/31/13 16:50	CDT
Benzo(b)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/31/13	1/31/13 16:50	CDT
Benzo(g,h,i)perylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/31/13	1/31/13 16:50	CDT
Benzo(k)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/31/13	1/31/13 16:50	CDT
Chrysene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/31/13	1/31/13 16:50	CDT
Dibenz(a,h)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/31/13	1/31/13 16:50	CDT
Fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/31/13	1/31/13 16:50	CDT
Fluorene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/31/13	1/31/13 16:50	CDT
Indeno(1,2,3-cd)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/31/13	1/31/13 16:50	CDT
2-Methylnaphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/31/13	1/31/13 16:50	CDT
Naphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/31/13	1/31/13 16:50	CDT
Phenanthrene	0.20	0.19	mg/Kg dry	1		SW-846 8270D	1/31/13	1/31/13 16:50	CDT
Pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	1/31/13	1/31/13 16:50	CDT
Surrogates	% Recovery	Recovery Limits	Flag						
Nitrobenzene-d5	89.2	30-130							
2-Fluorobiphenyl	96.3	30-130							
Terphenyl-d14	110	30-130							



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273801

Sampled: 1/24/2013 15:55

Sample ID: 13A0687-38

Sample Matrix: Soil

### Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/30/13	1/31/13 16:26	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/30/13	1/31/13 16:26	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/30/13	1/31/13 16:26	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/30/13	1/31/13 16:26	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/30/13	1/31/13 16:26	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/30/13	1/31/13 16:26	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/30/13	1/31/13 16:26	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/30/13	1/31/13 16:26	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/30/13	1/31/13 16:26	JMB
Surrogates	% Recovery		Recovery Limits		Flag				
Decachlorobiphenyl [1]	68.7		30-150				1/31/13 16:26		
Decachlorobiphenyl [2]	72.9		30-150				1/31/13 16:26		
Tetrachloro-m-xylene [1]	86.2		30-150				1/31/13 16:26		
Tetrachloro-m-xylene [2]	85.3		30-150				1/31/13 16:26		



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Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273801

Sampled: 1/24/2013 15:55

Sample ID: 13A0687-38

Sample Matrix: Soil

#### Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	ND	11	mg/Kg dry	1		CTDEP ETPH	1/31/13	2/1/13 11:05	SCS
Surrogates	% Recovery		Recovery Limits		Flag				
o-Terphenyl	61.5		50-150			2/1/13 11:05			



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273801

Sampled: 1/24/2013 15:55

Sample ID: 13A0687-38

Sample Matrix: Soil

# Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	2.7	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 19:28	KSH
Barium	14	2.7	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 19:28	KSH
Cadmium	ND	0.27	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 19:28	KSH
Chromium	8.0	0.54	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 19:28	KSH
Copper	2.9	0.54	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 19:28	KSH
Lead	3.3	0.82	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 19:28	KSH
Mercury	ND	0.028	mg/Kg dry	1		SW-846 7471B	1/30/13	1/30/13 13:03	SAJ
Nickel	3.8	0.54	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 19:28	KSH
Selenium	ND	5.4	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 19:28	KSH
Silver	ND	0.54	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 19:28	KSH
Zinc	15	1.1	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 19:28	KSH



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Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273801

Sampled: 1/24/2013 15:55

Sample ID: 13A0687-38

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	88.6		% Wt	1		SM 2540G	1/29/13	1/30/13 9:21	RH



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273802

Sampled: 1/24/2013 15:50

Sample ID: 13A0687-39

Sample Matrix: Soil

## Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/31/13	1/31/13 17:22	CDT
Acenaphthylene	0.77	0.20	mg/Kg dry	1		SW-846 8270D	1/31/13	1/31/13 17:22	CDT
Anthracene	0.44	0.20	mg/Kg dry	1		SW-846 8270D	1/31/13	1/31/13 17:22	CDT
Benzo(a)anthracene	0.93	0.20	mg/Kg dry	1		SW-846 8270D	1/31/13	1/31/13 17:22	CDT
Benzo(a)pyrene	0.96	0.20	mg/Kg dry	1		SW-846 8270D	1/31/13	1/31/13 17:22	CDT
Benzo(b)fluoranthene	1.1	0.20	mg/Kg dry	1		SW-846 8270D	1/31/13	1/31/13 17:22	CDT
Benzo(g,h,i)perylene	0.82	0.20	mg/Kg dry	1		SW-846 8270D	1/31/13	1/31/13 17:22	CDT
Benzo(k)fluoranthene	0.52	0.20	mg/Kg dry	1		SW-846 8270D	1/31/13	1/31/13 17:22	CDT
Chrysene	1.0	0.20	mg/Kg dry	1		SW-846 8270D	1/31/13	1/31/13 17:22	CDT
Dibenz(a,h)anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/31/13	1/31/13 17:22	CDT
Fluoranthene	2.0	0.20	mg/Kg dry	1		SW-846 8270D	1/31/13	1/31/13 17:22	CDT
Fluorene	0.34	0.20	mg/Kg dry	1		SW-846 8270D	1/31/13	1/31/13 17:22	CDT
Indeno(1,2,3-cd)pyrene	0.95	0.20	mg/Kg dry	1		SW-846 8270D	1/31/13	1/31/13 17:22	CDT
2-Methylnaphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/31/13	1/31/13 17:22	CDT
Naphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	1/31/13	1/31/13 17:22	CDT
Phenanthrene	2.2	0.20	mg/Kg dry	1		SW-846 8270D	1/31/13	1/31/13 17:22	CDT
Pyrene	2.1	0.20	mg/Kg dry	1		SW-846 8270D	1/31/13	1/31/13 17:22	CDT
Surrogates	% Recovery		Recovery Limits		Flag				
Nitrobenzene-d5	71.0		30-130				1/31/13 17:22		
2-Fluorobiphenyl	88.7		30-130				1/31/13 17:22		
Terphenyl-d14	91.7		30-130				1/31/13 17:22		



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273802

Sampled: 1/24/2013 15:50

Sample ID: 13A0687-39

Sample Matrix: Soil

### Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	0.18	0.12	mg/Kg dry	5		SW-846 8082A	1/30/13	1/31/13 17:04	JMB
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	1/30/13	1/31/13 17:04	JMB
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	1/30/13	1/31/13 17:04	JMB
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	1/30/13	1/31/13 17:04	JMB
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	1/30/13	1/31/13 17:04	JMB
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	1/30/13	1/31/13 17:04	JMB
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	1/30/13	1/31/13 17:04	JMB
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	1/30/13	1/31/13 17:04	JMB
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	1/30/13	1/31/13 17:04	JMB
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	79.1	30-150							
Decachlorobiphenyl [2]	86.7	30-150							
Tetrachloro-m-xylene [1]	83.1	30-150							
Tetrachloro-m-xylene [2]	78.6	30-150							



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Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273802

Sampled: 1/24/2013 15:50

Sample ID: 13A0687-39

Sample Matrix: Soil

#### Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	140	57	mg/Kg dry	5		CTDEP ETPH	1/31/13	2/1/13 12:51	SCS
Surrogates	% Recovery		Recovery Limits		Flag				
o-Terphenyl	62.4		50-150			2/1/13 12:51			



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273802

Sampled: 1/24/2013 15:50

Sample ID: 13A0687-39

Sample Matrix: Soil

## Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	2.8	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 19:33	KSH
Barium	14	2.8	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 19:33	KSH
Cadmium	ND	0.28	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 19:33	KSH
Chromium	10	0.57	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 19:33	KSH
Copper	3.4	0.57	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 19:33	KSH
Lead	5.9	0.85	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 19:33	KSH
Mercury	ND	0.028	mg/Kg dry	1		SW-846 7471B	1/30/13	1/30/13 13:05	SAJ
Nickel	4.9	0.57	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 19:33	KSH
Selenium	ND	5.7	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 19:33	KSH
Silver	ND	0.57	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 19:33	KSH
Zinc	18	1.1	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 19:33	KSH



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Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273802

Sampled: 1/24/2013 15:50

Sample ID: 13A0687-39

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	86.8		% Wt	1		SM 2540G	1/29/13	1/30/13 9:21	RH



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273803

Sampled: 1/24/2013 16:05

Sample ID: 13A0687-40

Sample Matrix: Soil

## Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	1/31/13	1/31/13 17:55	CDT
Acenaphthylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	1/31/13	1/31/13 17:55	CDT
Anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	1/31/13	1/31/13 17:55	CDT
Benzo(a)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	1/31/13	1/31/13 17:55	CDT
Benzo(a)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	1/31/13	1/31/13 17:55	CDT
Benzo(b)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	1/31/13	1/31/13 17:55	CDT
Benzo(g,h,i)perylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	1/31/13	1/31/13 17:55	CDT
Benzo(k)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	1/31/13	1/31/13 17:55	CDT
Chrysene	ND	0.18	mg/Kg dry	1		SW-846 8270D	1/31/13	1/31/13 17:55	CDT
Dibenz(a,h)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	1/31/13	1/31/13 17:55	CDT
Fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	1/31/13	1/31/13 17:55	CDT
Fluorene	ND	0.18	mg/Kg dry	1		SW-846 8270D	1/31/13	1/31/13 17:55	CDT
Indeno(1,2,3-cd)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	1/31/13	1/31/13 17:55	CDT
2-Methylnaphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	1/31/13	1/31/13 17:55	CDT
Naphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	1/31/13	1/31/13 17:55	CDT
Phenanthrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	1/31/13	1/31/13 17:55	CDT
Pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	1/31/13	1/31/13 17:55	CDT
Surrogates	% Recovery		Recovery Limits		Flag				
Nitrobenzene-d5	88.9		30-130				1/31/13 17:55		
2-Fluorobiphenyl	88.2		30-130				1/31/13 17:55		
Terphenyl-d14	121		30-130				1/31/13 17:55		



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273803

Sampled: 1/24/2013 16:05

Sample ID: 13A0687-40

Sample Matrix: Soil

### Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/30/13	1/31/13 17:17	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/30/13	1/31/13 17:17	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/30/13	1/31/13 17:17	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/30/13	1/31/13 17:17	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/30/13	1/31/13 17:17	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/30/13	1/31/13 17:17	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/30/13	1/31/13 17:17	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/30/13	1/31/13 17:17	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	1/30/13	1/31/13 17:17	JMB
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	76.3	30-150							
Decachlorobiphenyl [2]	79.4	30-150							
Tetrachloro-m-xylene [1]	85.0	30-150							
Tetrachloro-m-xylene [2]	85.4	30-150							



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

Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273803

Sampled: 1/24/2013 16:05

Sample ID: 13A0687-40

Sample Matrix: Soil

**Petroleum Hydrocarbons Analyses**

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	ND	11	mg/Kg dry	1		CTDEP ETPH	1/31/13	2/1/13 11:05	SCS
Surrogates	% Recovery		Recovery Limits		Flag				
o-Terphenyl	61.8		50-150			2/1/13 11:05			



Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273803

Sampled: 1/24/2013 16:05

Sample ID: 13A0687-40

Sample Matrix: Soil

## Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	2.6	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 19:39	KSH
Barium	34	2.6	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 19:39	KSH
Cadmium	ND	0.26	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 19:39	KSH
Chromium	4.9	0.52	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 19:39	KSH
Copper	5.1	0.52	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 19:39	KSH
Lead	1.9	0.77	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 19:39	KSH
Mercury	ND	0.027	mg/Kg dry	1		SW-846 7471B	1/30/13	1/30/13 13:06	SAJ
Nickel	3.3	0.52	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 19:39	KSH
Selenium	ND	5.2	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 19:39	KSH
Silver	ND	0.52	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 19:39	KSH
Zinc	16	1.0	mg/Kg dry	1		SW-846 6010C	1/29/13	1/30/13 19:39	KSH



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

Project Location: 240 Oral School Road, Mystic, CT

Sample Description:

Work Order: 13A0687

Date Received: 1/25/2013

Field Sample #: 1273803

Sampled: 1/24/2013 16:05

Sample ID: 13A0687-40

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	91.8		% Wt	1		SM 2540G	1/29/13	1/30/13 9:21	RH



### Sample Extraction Data

Prep Method: SW-846 3546-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13A0687-01 [1273800]	B066898	30.1	1.00	01/30/13
13A0687-02 [1273804]	B066898	30.7	1.00	01/30/13
13A0687-03 [1273805]	B066898	30.1	1.00	01/30/13
13A0687-04 [1273806]	B066898	30.8	1.00	01/30/13
13A0687-05 [1273807]	B066898	30.0	1.00	01/30/13
13A0687-06 [1273808]	B066898	30.5	1.00	01/30/13
13A0687-08 [1273810]	B066898	30.9	1.00	01/30/13
13A0687-09 [1273811]	B066898	30.2	1.00	01/30/13

Prep Method: SW-846 3546-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13A0687-10 [1273812]	B066988	30.4	1.00	01/31/13
13A0687-11 [1273813]	B066988	30.4	1.00	01/31/13
13A0687-12 [1273814]	B066988	30.8	1.00	01/31/13
13A0687-13 [1273815]	B066988	30.2	1.00	01/31/13
13A0687-14 [1273816]	B066988	30.3	1.00	01/31/13
13A0687-17 [1273819]	B066988	30.1	1.00	01/31/13
13A0687-22 [1273824]	B066988	30.5	1.00	01/31/13
13A0687-23 [1273828]	B066988	30.6	1.00	01/31/13
13A0687-24 [1273825]	B066988	30.8	1.00	01/31/13
13A0687-25 [1273826]	B066988	30.4	1.00	01/31/13
13A0687-26 [1273827]	B066988	30.7	1.00	01/31/13
13A0687-38 [1273801]	B066988	30.2	1.00	01/31/13
13A0687-39 [1273802]	B066988	30.2	1.00	01/31/13
13A0687-40 [1273803]	B066988	30.5	1.00	01/31/13

Prep Method: SW-846 3510C-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13A0687-28 [1273934]	B066810	1000	1.00	01/28/13
13A0687-30 [1273934]	B066810	1000	1.00	01/28/13

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
13A0687-01 [1273800]	B066872	01/29/13
13A0687-02 [1273804]	B066872	01/29/13
13A0687-03 [1273805]	B066872	01/29/13
13A0687-04 [1273806]	B066872	01/29/13
13A0687-05 [1273807]	B066872	01/29/13
13A0687-06 [1273808]	B066872	01/29/13
13A0687-08 [1273810]	B066872	01/29/13
13A0687-09 [1273811]	B066872	01/29/13
13A0687-10 [1273812]	B066872	01/29/13
13A0687-11 [1273813]	B066872	01/29/13
13A0687-12 [1273814]	B066872	01/29/13
13A0687-13 [1273815]	B066872	01/29/13
13A0687-14 [1273816]	B066872	01/29/13
13A0687-17 [1273819]	B066872	01/29/13
13A0687-22 [1273824]	B066872	01/29/13



### Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
13A0687-23 [1273828]	B066872	01/29/13
13A0687-38 [1273801]	B066872	01/29/13
13A0687-39 [1273802]	B066872	01/29/13
13A0687-40 [1273803]	B066872	01/29/13

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
13A0687-24 [1273825]	B066945	01/30/13
13A0687-25 [1273826]	B066945	01/30/13
13A0687-26 [1273827]	B066945	01/30/13

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13A0687-05 [1273807]	B066868	1.05	50.0	01/29/13
13A0687-06 [1273808]	B066868	1.01	50.0	01/29/13
13A0687-08 [1273810]	B066868	1.03	50.0	01/29/13
13A0687-09 [1273811]	B066868	1.02	50.0	01/29/13
13A0687-10 [1273812]	B066868	1.02	50.0	01/29/13
13A0687-11 [1273813]	B066868	1.04	50.0	01/29/13
13A0687-12 [1273814]	B066868	1.04	50.0	01/29/13
13A0687-13 [1273815]	B066868	1.05	50.0	01/29/13
13A0687-14 [1273816]	B066868	1.03	50.0	01/29/13
13A0687-17 [1273819]	B066868	1.05	50.0	01/29/13
13A0687-22 [1273824]	B066868	1.03	50.0	01/29/13
13A0687-23 [1273828]	B066868	1.03	50.0	01/29/13
13A0687-38 [1273801]	B066868	1.04	50.0	01/29/13
13A0687-39 [1273802]	B066868	1.01	50.0	01/29/13
13A0687-40 [1273803]	B066868	1.06	50.0	01/29/13

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13A0687-03 [1273805]	B066882	1.02	50.0	01/29/13
13A0687-04 [1273806]	B066882	1.06	50.0	01/29/13

Prep Method: SW-846 3005A-SW-846 6020A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13A0687-29 [1273934 UF]	B066804	50.0	50.0	01/29/13
13A0687-31 [1273934 UF]	B066804	50.0	50.0	01/29/13

Prep Method: SW-846 7470A Prep-SW-846 7470A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13A0687-29 [1273934 UF]	B066890	6.00	6.00	01/30/13
13A0687-31 [1273934 UF]	B066890	6.00	6.00	01/30/13



**Sample Extraction Data****Prep Method: SW-846 7471-SW-846 7471B**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13A0687-03 [1273805]	B066885	0.619	50.0	01/30/13
13A0687-04 [1273806]	B066885	0.611	50.0	01/30/13
13A0687-05 [1273807]	B066885	0.614	50.0	01/30/13
13A0687-06 [1273808]	B066885	0.603	50.0	01/30/13
13A0687-08 [1273810]	B066885	0.612	50.0	01/30/13
13A0687-09 [1273811]	B066885	0.611	50.0	01/30/13
13A0687-10 [1273812]	B066885	0.601	50.0	01/30/13
13A0687-11 [1273813]	B066885	0.601	50.0	01/30/13
13A0687-12 [1273814]	B066885	0.602	50.0	01/30/13
13A0687-13 [1273815]	B066885	0.608	50.0	01/30/13
13A0687-14 [1273816]	B066885	0.604	50.0	01/30/13
13A0687-17 [1273819]	B066885	0.607	50.0	01/30/13
13A0687-22 [1273824]	B066885	0.602	50.0	01/30/13
13A0687-23 [1273828]	B066885	0.601	50.0	01/30/13
13A0687-38 [1273801]	B066885	0.613	50.0	01/30/13
13A0687-39 [1273802]	B066885	0.612	50.0	01/30/13
13A0687-40 [1273803]	B066885	0.612	50.0	01/30/13

**Prep Method: SW-846 3546-SW-846 8081B**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13A0687-01 [1273800]	B066914	10.0	10.0	01/30/13
13A0687-03 [1273805]	B066914	10.0	10.0	01/30/13
13A0687-09 [1273811]	B066914	10.0	10.0	01/30/13
13A0687-11 [1273813]	B066914	10.1	10.0	01/30/13
13A0687-13 [1273815]	B066914	10.0	10.0	01/30/13
13A0687-14 [1273816]	B066914	10.1	10.0	01/30/13
13A0687-22 [1273824]	B066914	10.0	10.0	01/30/13
13A0687-23 [1273828]	B066914	10.0	10.0	01/30/13

**Prep Method: SW-846 3510C-SW-846 8081B**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13A0687-28 [1273934]	B066815	1000	10.0	01/28/13
13A0687-30 [1273934]	B066815	1000	10.0	01/28/13

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13A0687-09 [1273811]	B066915	10.0	10.0	01/30/13
13A0687-10 [1273812]	B066915	10.0	10.0	01/30/13
13A0687-11 [1273813]	B066915	10.1	10.0	01/30/13
13A0687-12 [1273814]	B066915	10.0	10.0	01/30/13
13A0687-13 [1273815]	B066915	10.0	10.0	01/30/13
13A0687-14 [1273816]	B066915	10.1	10.0	01/30/13
13A0687-17 [1273819]	B066915	10.2	10.0	01/30/13
13A0687-22 [1273824]	B066915	10.0	10.0	01/30/13
13A0687-23 [1273828]	B066915	10.0	10.0	01/30/13
13A0687-38 [1273801]	B066915	10.0	10.0	01/30/13
13A0687-39 [1273802]	B066915	10.0	10.0	01/30/13



### Sample Extraction Data

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13A0687-40 [1273803]	B066915	10.0	10.0	01/30/13

Prep Method: SW-846 3510C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13A0687-28 [1273934]	B066788	1000	10.0	01/28/13
13A0687-30 [1273934]	B066788	1000	10.0	01/28/13

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13A0687-01 [1273800]	B066927	1.59	10.0	01/30/13
13A0687-02 [1273804]	B066927	4.42	10.0	01/30/13
13A0687-03 [1273805]	B066927	3.15	10.0	01/30/13
13A0687-04 [1273806]	B066927	2.52	10.0	01/30/13
13A0687-05 [1273807]	B066927	3.60	10.0	01/30/13
13A0687-06 [1273808]	B066927	3.84	10.0	01/30/13
13A0687-08 [1273810]	B066927	2.47	10.0	01/30/13
13A0687-09 [1273811]	B066927	3.57	10.0	01/30/13
13A0687-10 [1273812]	B066927	3.24	10.0	01/30/13
13A0687-11 [1273813]	B066927	2.78	10.0	01/30/13
13A0687-12 [1273814]	B066927	5.43	10.0	01/30/13
13A0687-13 [1273815]	B066927	3.37	10.0	01/30/13
13A0687-14 [1273816]	B066927	2.00	10.0	01/30/13

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13A0687-17 [1273819]	B066994	5.84	10.0	01/31/13
13A0687-22 [1273824]	B066994	5.41	10.0	01/31/13
13A0687-23 [1273828]	B066994	3.64	10.0	01/31/13
13A0687-27 [1273931]	B066994	5.00	10.0	01/31/13

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13A0687-28 [1273934]	B066920	5	5.00	01/28/13
13A0687-30 [1273934]	B066920	5	5.00	01/28/13

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13A0687-01 [1273800]	B066884	30.4	1.00	01/29/13
13A0687-02 [1273804]	B066884	30.2	1.00	01/29/13
13A0687-03 [1273805]	B066884	15.4	1.00	01/29/13
13A0687-03RE1 [1273805]	B066884	15.4	1.00	01/29/13
13A0687-04 [1273806]	B066884	30.4	1.00	01/29/13
13A0687-05 [1273807]	B066884	30.4	1.00	01/29/13
13A0687-06 [1273808]	B066884	30.3	1.00	01/29/13



**Sample Extraction Data****Prep Method: SW-846 3546-SW-846 8270D**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13A0687-08 [1273810]	B066884	30.1	1.00	01/29/13
13A0687-09 [1273811]	B066884	30.1	1.00	01/29/13
13A0687-09RE1 [1273811]	B066884	30.1	1.00	01/29/13
13A0687-10 [1273812]	B066884	30.3	2.00	01/29/13
13A0687-11 [1273813]	B066884	30.2	2.00	01/29/13
13A0687-12 [1273814]	B066884	30.3	1.00	01/29/13
13A0687-13 [1273815]	B066884	30.4	1.00	01/29/13
13A0687-14 [1273816]	B066884	30.3	1.00	01/29/13
13A0687-17 [1273819]	B066884	15.4	1.00	01/29/13
13A0687-22 [1273824]	B066884	30.0	2.00	01/29/13
13A0687-23 [1273828]	B066884	30.3	1.00	01/29/13
13A0687-24 [1273825]	B066884	30.0	1.00	01/29/13
13A0687-25 [1273826]	B066884	30.4	1.00	01/29/13

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13A0687-26 [1273827]	B066965	30.3	1.00	01/31/13
13A0687-38 [1273801]	B066965	30.1	1.00	01/31/13
13A0687-39 [1273802]	B066965	30.1	1.00	01/31/13
13A0687-40 [1273803]	B066965	30.2	1.00	01/31/13

**Prep Method: SW-846 3510C-SW-846 8270D**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13A0687-28 [1273934]	B066816	1000	1.00	01/28/13
13A0687-30 [1273934]	B066816	920	1.00	01/28/13



**QUALITY CONTROL**
**Volatile Organic Compounds by GC/MS - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B066920 - SW-846 5030B**
**Blank (B066920-BLK1)**

Prepared &amp; Analyzed: 01/30/13

Acetone	ND	5.0	µg/L
Acrylonitrile	ND	2.0	µg/L
Benzene	ND	0.50	µg/L
Bromobenzene	ND	0.50	µg/L
Bromodichloromethane	ND	2.0	µg/L
Bromoform	ND	0.50	µg/L
Bromomethane	ND	0.50	µg/L
2-Butanone (MEK)	ND	5.0	µg/L
n-Butylbenzene	ND	1.0	µg/L
sec-Butylbenzene	ND	1.0	µg/L
tert-Butylbenzene	ND	1.0	µg/L
Carbon Disulfide	ND	5.0	µg/L
Carbon Tetrachloride	ND	0.50	µg/L
Chlorobenzene	ND	0.50	µg/L
Chlorodibromomethane	ND	0.50	µg/L
Chloroethane	ND	0.50	µg/L
Chloroform	ND	0.50	µg/L
Chloromethane	ND	0.50	µg/L
2-Chlorotoluene	ND	0.50	µg/L
4-Chlorotoluene	ND	0.50	µg/L
1,2-Dibromo-3-chloropropane (DBCP)	ND	1.0	µg/L
1,2-Dibromoethane (EDB)	ND	1.0	µg/L
Dibromomethane	ND	0.50	µg/L
1,2-Dichlorobenzene	ND	0.50	µg/L
1,3-Dichlorobenzene	ND	0.50	µg/L
1,4-Dichlorobenzene	ND	0.50	µg/L
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L
Dichlorodifluoromethane (Freon 12)	ND	0.50	µg/L
1,1-Dichloroethane	ND	0.50	µg/L
1,2-Dichloroethane	ND	0.50	µg/L
1,1-Dichloroethylene	ND	0.50	µg/L
cis-1,2-Dichloroethylene	ND	0.50	µg/L
trans-1,2-Dichloroethylene	ND	1.0	µg/L
1,2-Dichloropropane	ND	0.50	µg/L
1,3-Dichloropropane	ND	0.50	µg/L
2,2-Dichloropropane	ND	0.50	µg/L
1,1-Dichloropropene	ND	0.50	µg/L
cis-1,3-Dichloropropene	ND	0.50	µg/L
trans-1,3-Dichloropropene	ND	0.50	µg/L
Ethylbenzene	ND	0.50	µg/L
Hexachlorobutadiene	ND	0.40	µg/L
2-Hexanone (MBK)	ND	5.0	µg/L
Isopropylbenzene (Cumene)	ND	0.50	µg/L
p-Isopropyltoluene (p-Cymene)	ND	0.50	µg/L
Methyl tert-Butyl Ether (MTBE)	ND	0.50	µg/L
Methylene Chloride	ND	5.0	µg/L
4-Methyl-2-pentanone (MIBK)	ND	5.0	µg/L
Naphthalene	ND	2.0	µg/L
n-Propylbenzene	ND	1.0	µg/L
Styrene	ND	1.0	µg/L
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L



**QUALITY CONTROL**
**Volatile Organic Compounds by GC/MS - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B066920 - SW-846 5030B</b>										
<b>Blank (B066920-BLK1)</b>				Prepared & Analyzed: 01/30/13						
Tetrachloroethylene	ND	1.0	µg/L							
Tetrahydrofuran	ND	10	µg/L							
Toluene	ND	1.0	µg/L							
1,2,3-Trichlorobenzene	ND	1.0	µg/L							
1,2,4-Trichlorobenzene	ND	0.50	µg/L							
1,1,1-Trichloroethane	ND	1.0	µg/L							
1,1,2-Trichloroethane	ND	0.50	µg/L							
Trichloroethylene	ND	1.0	µg/L							
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L							
1,2,3-Trichloropropane	ND	0.50	µg/L							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	µg/L							
1,2,4-Trimethylbenzene	ND	0.50	µg/L							
1,3,5-Trimethylbenzene	ND	0.50	µg/L							
Vinyl Chloride	ND	1.0	µg/L							
m+p Xylene	ND	2.0	µg/L							
o-Xylene	ND	1.0	µg/L							
Surrogate: 1,2-Dichloroethane-d4	25.0		µg/L	25.0		99.8	70-130			
Surrogate: Toluene-d8	25.2		µg/L	25.0		101	70-130			
Surrogate: 4-Bromofluorobenzene	23.6		µg/L	25.0		94.3	70-130			
<b>LCS (B066920-BS1)</b>				Prepared & Analyzed: 01/30/13						
Acetone	111	5.0	µg/L	100		111	70-130			
Acrylonitrile	9.80	2.0	µg/L	10.0		98.0	70-130			
Benzene	9.63	0.50	µg/L	10.0		96.3	70-130			
Bromobenzene	9.92	0.50	µg/L	10.0		99.2	70-130			
Bromodichloromethane	9.41	2.0	µg/L	10.0		94.1	70-130			
Bromoform	8.83	0.50	µg/L	10.0		88.3	70-130			
<b>Bromomethane</b>	16.0	0.50	µg/L	10.0		<b>160</b>	70-130	*		L-01, V-20
2-Butanone (MEK)	114	5.0	µg/L	100		114	70-130			
n-Butylbenzene	10.4	1.0	µg/L	10.0		104	70-130			
sec-Butylbenzene	10.1	1.0	µg/L	10.0		101	70-130			
tert-Butylbenzene	10.2	1.0	µg/L	10.0		102	70-130			
Carbon Disulfide	95.3	5.0	µg/L	100		95.3	70-130			
Carbon Tetrachloride	9.83	0.50	µg/L	10.0		98.3	70-130			
Chlorobenzene	9.78	0.50	µg/L	10.0		97.8	70-130			
Chlorodibromomethane	9.22	0.50	µg/L	10.0		92.2	70-130			
Chloroethane	9.16	0.50	µg/L	10.0		91.6	70-130			
Chloroform	10.5	0.50	µg/L	10.0		105	70-130			
Chloromethane	7.35	0.50	µg/L	10.0		73.5	70-130			
2-Chlorotoluene	10.0	0.50	µg/L	10.0		100	70-130			
4-Chlorotoluene	9.77	0.50	µg/L	10.0		97.7	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	8.64	1.0	µg/L	10.0		86.4	70-130			
1,2-Dibromoethane (EDB)	9.54	1.0	µg/L	10.0		95.4	70-130			
Dibromomethane	10.1	0.50	µg/L	10.0		101	70-130			
1,2-Dichlorobenzene	10.0	0.50	µg/L	10.0		100	70-130			
1,3-Dichlorobenzene	9.73	0.50	µg/L	10.0		97.3	70-130			
1,4-Dichlorobenzene	10.0	0.50	µg/L	10.0		100	70-130			
trans-1,4-Dichloro-2-butene	7.49	2.0	µg/L	10.0		74.9	70-130			
Dichlorodifluoromethane (Freon 12)	8.44	0.50	µg/L	10.0		84.4	70-130			
1,1-Dichloroethane	9.90	0.50	µg/L	10.0		99.0	70-130			
1,2-Dichloroethane	10.4	0.50	µg/L	10.0		104	70-130			
1,1-Dichloroethylene	9.42	0.50	µg/L	10.0		94.2	70-130			



**QUALITY CONTROL**
**Volatile Organic Compounds by GC/MS - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B066920 - SW-846 5030B**
**LCS (B066920-BS1)**

Prepared &amp; Analyzed: 01/30/13

cis-1,2-Dichloroethylene	10.1	0.50	µg/L	10.0		101	70-130			
trans-1,2-Dichloroethylene	10.2	1.0	µg/L	10.0		102	70-130			
1,2-Dichloropropane	9.74	0.50	µg/L	10.0		97.4	70-130			
1,3-Dichloropropane	10.1	0.50	µg/L	10.0		101	70-130			
2,2-Dichloropropane	8.15	0.50	µg/L	10.0		81.5	70-130			
1,1-Dichloropropene	9.77	0.50	µg/L	10.0		97.7	70-130			
cis-1,3-Dichloropropene	7.59	0.50	µg/L	10.0		75.9	70-130			
trans-1,3-Dichloropropene	7.08	0.50	µg/L	10.0		70.8	70-130			
Ethylbenzene	9.92	0.50	µg/L	10.0		99.2	70-130			
Hexachlorobutadiene	9.79	0.40	µg/L	10.0		97.9	70-130			
2-Hexanone (MBK)	111	5.0	µg/L	100		111	70-130			
Isopropylbenzene (Cumene)	9.78	0.50	µg/L	10.0		97.8	70-130			
p-Isopropyltoluene (p-Cymene)	9.95	0.50	µg/L	10.0		99.5	70-130			
Methyl tert-Butyl Ether (MTBE)	10.1	0.50	µg/L	10.0		101	70-130			
Methylene Chloride	9.92	5.0	µg/L	10.0		99.2	70-130			
4-Methyl-2-pentanone (MIBK)	111	5.0	µg/L	100		111	70-130			
Naphthalene	8.82	2.0	µg/L	10.0		88.2	70-130			
n-Propylbenzene	9.96	1.0	µg/L	10.0		99.6	70-130			
Styrene	9.42	1.0	µg/L	10.0		94.2	70-130			
1,1,1,2-Tetrachloroethane	9.83	1.0	µg/L	10.0		98.3	70-130			
1,1,2,2-Tetrachloroethane	10.0	0.50	µg/L	10.0		100	70-130			
Tetrachloroethylene	9.72	1.0	µg/L	10.0		97.2	70-130			
Tetrahydrofuran	9.61	10	µg/L	10.0		96.1	70-130			
Toluene	9.66	1.0	µg/L	10.0		96.6	70-130			
1,2,3-Trichlorobenzene	7.72	1.0	µg/L	10.0		77.2	70-130			
1,2,4-Trichlorobenzene	7.39	0.50	µg/L	10.0		73.9	70-130			
1,1,1-Trichloroethane	9.35	1.0	µg/L	10.0		93.5	70-130			
1,1,2-Trichloroethane	9.93	0.50	µg/L	10.0		99.3	70-130			
Trichloroethylene	9.71	1.0	µg/L	10.0		97.1	70-130			
Trichlorofluoromethane (Freon 11)	11.3	2.0	µg/L	10.0		113	70-130			
1,2,3-Trichloropropane	10.7	0.50	µg/L	10.0		107	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.2	0.50	µg/L	10.0		102	70-130			
1,2,4-Trimethylbenzene	10.1	0.50	µg/L	10.0		101	70-130			
1,3,5-Trimethylbenzene	10.1	0.50	µg/L	10.0		101	70-130			
Vinyl Chloride	9.18	1.0	µg/L	10.0		91.8	70-130			
m+p Xylene	20.3	2.0	µg/L	20.0		102	70-130			
o-Xylene	10.0	1.0	µg/L	10.0		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	25.6		µg/L	25.0		102	70-130			
Surrogate: Toluene-d8	24.8		µg/L	25.0		99.0	70-130			
Surrogate: 4-Bromofluorobenzene	24.8		µg/L	25.0		99.3	70-130			

**Batch B066927 - SW-846 5035**
**LCS (B066927-BS1)**

Prepared &amp; Analyzed: 01/30/13

Acetone	0.199	0.10	mg/Kg wet	0.200		99.4	70-130			V-16
Acrylonitrile	0.0192	0.0060	mg/Kg wet	0.0200		96.0	70-130			
Benzene	0.0205	0.0020	mg/Kg wet	0.0200		102	70-130			
Bromobenzene	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130			
Bromodichloromethane	0.0211	0.0020	mg/Kg wet	0.0200		106	70-130			
Bromoform	0.0239	0.0020	mg/Kg wet	0.0200		119	70-130			
Bromomethane	0.0193	0.010	mg/Kg wet	0.0200		96.5	70-130			
2-Butanone (MEK)	0.214	0.040	mg/Kg wet	0.200		107	70-130			V-16



**QUALITY CONTROL**
**Volatile Organic Compounds by GC/MS - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B066927 - SW-846 5035</b>										
<b>LCS (B066927-BS1)</b>				Prepared & Analyzed: 01/30/13						
n-Butylbenzene	0.0207	0.0020	mg/Kg wet	0.0200		103	70-130			
sec-Butylbenzene	0.0205	0.0020	mg/Kg wet	0.0200		102	70-130			
tert-Butylbenzene	0.0197	0.0020	mg/Kg wet	0.0200		98.7	70-130			
Carbon Disulfide	0.190	0.0060	mg/Kg wet	0.200		95.0	70-130			
<b>Carbon Tetrachloride</b>	0.0313	0.0020	mg/Kg wet	0.0200		<b>156</b>	<b>*</b> 70-130			L-01, V-20
Chlorobenzene	0.0190	0.0020	mg/Kg wet	0.0200		94.8	70-130			
Chlorodibromomethane	0.0215	0.0010	mg/Kg wet	0.0200		107	70-130			
Chloroethane	0.0186	0.020	mg/Kg wet	0.0200		92.9	70-130			
Chloroform	0.0204	0.0040	mg/Kg wet	0.0200		102	70-130			
Chloromethane	0.0198	0.010	mg/Kg wet	0.0200		98.9	70-130			
2-Chlorotoluene	0.0191	0.0020	mg/Kg wet	0.0200		95.4	70-130			
4-Chlorotoluene	0.0189	0.0020	mg/Kg wet	0.0200		94.5	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.0220	0.0020	mg/Kg wet	0.0200		110	70-130			V-16
1,2-Dibromoethane (EDB)	0.0226	0.0010	mg/Kg wet	0.0200		113	70-130			
Dibromomethane	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130			
1,2-Dichlorobenzene	0.0193	0.0020	mg/Kg wet	0.0200		96.7	70-130			
1,3-Dichlorobenzene	0.0195	0.0020	mg/Kg wet	0.0200		97.6	70-130			
1,4-Dichlorobenzene	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130			
trans-1,4-Dichloro-2-butene	0.0184	0.0040	mg/Kg wet	0.0200		91.9	70-130			
Dichlorodifluoromethane (Freon 12)	0.0199	0.020	mg/Kg wet	0.0200		99.4	70-130			
1,1-Dichloroethane	0.0196	0.0020	mg/Kg wet	0.0200		98.1	70-130			
1,2-Dichloroethane	0.0183	0.0020	mg/Kg wet	0.0200		91.4	70-130			
1,1-Dichloroethylene	0.0176	0.0040	mg/Kg wet	0.0200		87.8	70-130			
cis-1,2-Dichloroethylene	0.0223	0.0020	mg/Kg wet	0.0200		112	70-130			
trans-1,2-Dichloroethylene	0.0198	0.0020	mg/Kg wet	0.0200		99.2	70-130			
1,2-Dichloropropane	0.0189	0.0020	mg/Kg wet	0.0200		94.3	70-130			
1,3-Dichloropropane	0.0201	0.0010	mg/Kg wet	0.0200		101	70-130			
2,2-Dichloropropane	0.0237	0.0020	mg/Kg wet	0.0200		118	70-130			
1,1-Dichloropropene	0.0193	0.0020	mg/Kg wet	0.0200		96.6	70-130			
cis-1,3-Dichloropropene	0.0193	0.0010	mg/Kg wet	0.0200		96.3	70-130			
trans-1,3-Dichloropropene	0.0187	0.0010	mg/Kg wet	0.0200		93.4	70-130			
Ethylbenzene	0.0211	0.0020	mg/Kg wet	0.0200		105	70-130			
Hexachlorobutadiene	0.0216	0.0020	mg/Kg wet	0.0200		108	70-130			
2-Hexanone (MBK)	0.193	0.020	mg/Kg wet	0.200		96.6	70-130			
Isopropylbenzene (Cumene)	0.0196	0.0020	mg/Kg wet	0.0200		98.2	70-130			
p-Isopropyltoluene (p-Cymene)	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130			
Methyl tert-Butyl Ether (MTBE)	0.0185	0.0040	mg/Kg wet	0.0200		92.7	70-130			
Methylene Chloride	0.0147	0.020	mg/Kg wet	0.0200		73.4	70-130			
4-Methyl-2-pentanone (MIBK)	0.200	0.020	mg/Kg wet	0.200		100	70-130			
<b>Naphthalene</b>	0.0139	0.0040	mg/Kg wet	0.0200		<b>69.7</b>	<b>*</b> 70-130			L-03, V-05
n-Propylbenzene	0.0198	0.0020	mg/Kg wet	0.0200		99.1	70-130			
Styrene	0.0201	0.0020	mg/Kg wet	0.0200		100	70-130			
1,1,1,2-Tetrachloroethane	0.0226	0.0020	mg/Kg wet	0.0200		113	70-130			
1,1,2,2-Tetrachloroethane	0.0229	0.0010	mg/Kg wet	0.0200		114	70-130			
Tetrachloroethylene	0.0203	0.0020	mg/Kg wet	0.0200		102	70-130			
Tetrahydrofuran	0.0194	0.010	mg/Kg wet	0.0200		96.8	70-130			V-16
Toluene	0.0187	0.0020	mg/Kg wet	0.0200		93.3	70-130			
1,2,3-Trichlorobenzene	0.0174	0.0020	mg/Kg wet	0.0200		87.0	70-130			
1,2,4-Trichlorobenzene	0.0173	0.0020	mg/Kg wet	0.0200		86.7	70-130			
1,1,1-Trichloroethane	0.0216	0.0020	mg/Kg wet	0.0200		108	70-130			
1,1,2-Trichloroethane	0.0203	0.0020	mg/Kg wet	0.0200		101	70-130			
Trichloroethylene	0.0200	0.0020	mg/Kg wet	0.0200		100	70-130			



**QUALITY CONTROL**
**Volatile Organic Compounds by GC/MS - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B066927 - SW-846 5035</b>										
<b>LCS (B066927-BS1)</b>				Prepared & Analyzed: 01/30/13						
Trichlorofluoromethane (Freon 11)	0.0205	0.010	mg/Kg wet	0.0200		103	70-130			
1,2,3-Trichloropropane	0.0231	0.0020	mg/Kg wet	0.0200		115	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0210	0.010	mg/Kg wet	0.0200		105	70-130			
1,2,4-Trimethylbenzene	0.0216	0.0020	mg/Kg wet	0.0200		108	70-130			
1,3,5-Trimethylbenzene	0.0211	0.0020	mg/Kg wet	0.0200		106	70-130			
Vinyl Chloride	0.0179	0.010	mg/Kg wet	0.0200		89.5	70-130			
m+p Xylene	0.0392	0.0040	mg/Kg wet	0.0400		98.1	70-130			
o-Xylene	0.0192	0.0020	mg/Kg wet	0.0200		95.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0453		mg/Kg wet	0.0500		90.6	70-130			
Surrogate: Toluene-d8	0.0524		mg/Kg wet	0.0500		105	70-130			
Surrogate: 4-Bromofluorobenzene	0.0524		mg/Kg wet	0.0500		105	70-130			
<b>Matrix Spike (B066927-MS1)</b>				Source: 13A0687-01	Prepared & Analyzed: 01/30/13					
<b>Acetone</b>	0.344	0.25	mg/Kg dry	0.506	ND	<b>68.0</b>	*	70-130		MS-07, V-16
Acrylonitrile	0.0440	0.015	mg/Kg dry	0.0506	ND	87.1		70-130		
Benzene	0.0510	0.0051	mg/Kg dry	0.0506	ND	101		70-130		
Bromobenzene	0.0500	0.0051	mg/Kg dry	0.0506	ND	98.8		70-130		
Bromodichloromethane	0.0454	0.0051	mg/Kg dry	0.0506	ND	89.7		70-130		
Bromoform	0.0463	0.0051	mg/Kg dry	0.0506	ND	91.5		70-130		
Bromomethane	0.0437	0.025	mg/Kg dry	0.0506	ND	86.5		70-130		
<b>2-Butanone (MEK)</b>	0.350	0.10	mg/Kg dry	0.506	ND	<b>69.2</b>	*	70-130		MS-07, V-16
n-Butylbenzene	0.0504	0.0051	mg/Kg dry	0.0506	ND	99.7		70-130		
sec-Butylbenzene	0.0525	0.0051	mg/Kg dry	0.0506	ND	104		70-130		
tert-Butylbenzene	0.0545	0.0051	mg/Kg dry	0.0506	ND	108		70-130		
Carbon Disulfide	0.0433	0.015	mg/Kg dry	0.0506	ND	85.7		70-130		
Carbon Tetrachloride	0.0652	0.0051	mg/Kg dry	0.0506	ND	129		70-130		
Chlorobenzene	0.0493	0.0051	mg/Kg dry	0.0506	ND	97.5		70-130		
Chlorodibromomethane	0.0460	0.0025	mg/Kg dry	0.0506	ND	90.9		70-130		
Chloroethane	0.0469	0.051	mg/Kg dry	0.0506	ND	92.7		70-130		
Chloroform	0.0496	0.010	mg/Kg dry	0.0506	ND	98.1		70-130		
Chloromethane	0.0468	0.025	mg/Kg dry	0.0506	ND	92.6		70-130		
2-Chlorotoluene	0.0475	0.0051	mg/Kg dry	0.0506	ND	93.9		70-130		
4-Chlorotoluene	0.0479	0.0051	mg/Kg dry	0.0506	ND	94.8		70-130		
1,2-Dibromo-3-chloropropane (DBCP)	0.0359	0.0051	mg/Kg dry	0.0506	ND	70.9		70-130		V-16
1,2-Dibromoethane (EDB)	0.0477	0.0025	mg/Kg dry	0.0506	ND	94.4		70-130		
Dibromomethane	0.0473	0.0051	mg/Kg dry	0.0506	ND	93.5		70-130		
1,2-Dichlorobenzene	0.0486	0.0051	mg/Kg dry	0.0506	ND	96.2		70-130		
1,3-Dichlorobenzene	0.0499	0.0051	mg/Kg dry	0.0506	ND	98.6		70-130		
1,4-Dichlorobenzene	0.0512	0.0051	mg/Kg dry	0.0506	ND	101		70-130		
trans-1,4-Dichloro-2-butene	0.0375	0.010	mg/Kg dry	0.0506	ND	74.2		70-130		
<b>Dichlorodifluoromethane (Freon 12)</b>	0.0337	0.051	mg/Kg dry	0.0506	ND	<b>66.6</b>	*	70-130		MS-07
1,1-Dichloroethane	0.0479	0.0051	mg/Kg dry	0.0506	ND	94.7		70-130		
1,2-Dichloroethane	0.0416	0.0051	mg/Kg dry	0.0506	ND	82.2		70-130		
1,1-Dichloroethylene	0.0457	0.010	mg/Kg dry	0.0506	ND	90.4		70-130		
cis-1,2-Dichloroethylene	0.0518	0.0051	mg/Kg dry	0.0506	ND	102		70-130		
trans-1,2-Dichloroethylene	0.0522	0.0051	mg/Kg dry	0.0506	ND	103		70-130		
1,2-Dichloropropane	0.0445	0.0051	mg/Kg dry	0.0506	ND	88.0		70-130		
1,3-Dichloropropane	0.0457	0.0025	mg/Kg dry	0.0506	ND	90.3		70-130		
2,2-Dichloropropane	0.0484	0.0051	mg/Kg dry	0.0506	ND	95.7		70-130		
1,1-Dichloropropene	0.0486	0.0051	mg/Kg dry	0.0506	ND	96.2		70-130		
cis-1,3-Dichloropropene	0.0401	0.0025	mg/Kg dry	0.0506	ND	79.2		70-130		
trans-1,3-Dichloropropene	0.0396	0.0025	mg/Kg dry	0.0506	ND	78.4		70-130		



**QUALITY CONTROL**
**Volatile Organic Compounds by GC/MS - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B066927 - SW-846 5035**

Matrix Spike (B066927-MS1)		Source: 13A0687-01		Prepared & Analyzed: 01/30/13						
Ethylbenzene	0.0513	0.0051	mg/Kg dry	0.0506	ND	102	70-130			
Hexachlorobutadiene	0.0510	0.0051	mg/Kg dry	0.0506	ND	101	70-130			
<b>2-Hexanone (MBK)</b>	0.338	0.051	mg/Kg dry	0.506	ND	<b>66.9</b>	* 70-130			MS-07
Isopropylbenzene (Cumene)	0.0523	0.0051	mg/Kg dry	0.0506	ND	103	70-130			
p-Isopropyltoluene (p-Cymene)	0.0565	0.0051	mg/Kg dry	0.0506	ND	112	70-130			
Methyl tert-Butyl Ether (MTBE)	0.0405	0.010	mg/Kg dry	0.0506	ND	80.0	70-130			
<b>Methylene Chloride</b>	0.0906	0.051	mg/Kg dry	0.0506	ND	<b>179</b>	* 70-130			MS-14
4-Methyl-2-pentanone (MIBK)	0.371	0.051	mg/Kg dry	0.506	ND	73.4	70-130			
<b>Naphthalene</b>	0.0236	0.010	mg/Kg dry	0.0506	ND	<b>46.6</b>	* 70-130			L-03, MS-08, V-05
n-Propylbenzene	0.0504	0.0051	mg/Kg dry	0.0506	ND	99.6	70-130			
Styrene	0.0447	0.0051	mg/Kg dry	0.0506	ND	88.4	70-130			
1,1,1,2-Tetrachloroethane	0.0519	0.0051	mg/Kg dry	0.0506	ND	103	70-130			
1,1,2,2-Tetrachloroethane	0.0471	0.0025	mg/Kg dry	0.0506	ND	93.1	70-130			
Tetrachloroethylene	0.0511	0.0051	mg/Kg dry	0.0506	ND	101	70-130			
Tetrahydrofuran	0.0464	0.025	mg/Kg dry	0.0506	ND	91.8	70-130			V-16
Toluene	0.0466	0.0051	mg/Kg dry	0.0506	ND	92.2	70-130			
<b>1,2,3-Trichlorobenzene</b>	0.0326	0.0051	mg/Kg dry	0.0506	ND	<b>64.4</b>	* 70-130			MS-07
<b>1,2,4-Trichlorobenzene</b>	0.0346	0.0051	mg/Kg dry	0.0506	ND	<b>68.4</b>	* 70-130			MS-07
1,1,1-Trichloroethane	0.0501	0.0051	mg/Kg dry	0.0506	ND	99.0	70-130			
1,1,2-Trichloroethane	0.0461	0.0051	mg/Kg dry	0.0506	ND	91.2	70-130			
Trichloroethylene	0.0479	0.0051	mg/Kg dry	0.0506	ND	94.8	70-130			
Trichlorofluoromethane (Freon 11)	0.0516	0.025	mg/Kg dry	0.0506	ND	102	70-130			
1,2,3-Trichloropropane	0.0454	0.0051	mg/Kg dry	0.0506	ND	89.7	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0573	0.025	mg/Kg dry	0.0506	ND	113	70-130			
1,2,4-Trimethylbenzene	0.0483	0.0051	mg/Kg dry	0.0506	ND	95.6	70-130			
1,3,5-Trimethylbenzene	0.0490	0.0051	mg/Kg dry	0.0506	ND	96.9	70-130			
Vinyl Chloride	0.0399	0.025	mg/Kg dry	0.0506	ND	79.0	70-130			
m+p Xylene	0.101	0.010	mg/Kg dry	0.101	ND	100	70-130			
o-Xylene	0.0478	0.0051	mg/Kg dry	0.0506	ND	94.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.107		mg/Kg dry	0.126		84.5	70-130			
Surrogate: Toluene-d8	0.133		mg/Kg dry	0.126		105	70-130			
Surrogate: 4-Bromofluorobenzene	0.122		mg/Kg dry	0.126		96.8	70-130			

**Batch B066994 - SW-846 5035**

Blank (B066994-BLK1)		Prepared & Analyzed: 01/31/13								
Acetone	ND	0.10	mg/Kg wet							V-16
Acrylonitrile	ND	0.0060	mg/Kg wet							
Benzene	ND	0.0020	mg/Kg wet							
Bromobenzene	ND	0.0020	mg/Kg wet							
Bromodichloromethane	ND	0.0020	mg/Kg wet							
Bromoform	ND	0.0020	mg/Kg wet							
Bromomethane	ND	0.010	mg/Kg wet							
2-Butanone (MEK)	ND	0.040	mg/Kg wet							V-16
n-Butylbenzene	ND	0.0020	mg/Kg wet							
sec-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butylbenzene	ND	0.0020	mg/Kg wet							
Carbon Disulfide	ND	0.0060	mg/Kg wet							
Carbon Tetrachloride	ND	0.0020	mg/Kg wet							
Chlorobenzene	ND	0.0020	mg/Kg wet							
Chlorodibromomethane	ND	0.0010	mg/Kg wet							



**QUALITY CONTROL**
**Volatile Organic Compounds by GC/MS - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B066994 - SW-846 5035</b>										
<b>Blank (B066994-BLK1)</b>				Prepared & Analyzed: 01/31/13						
Chloroethane	ND	0.020	mg/Kg wet							
Chloroform	ND	0.0040	mg/Kg wet							
Chloromethane	ND	0.010	mg/Kg wet							
2-Chlorotoluene	ND	0.0020	mg/Kg wet							
4-Chlorotoluene	ND	0.0020	mg/Kg wet							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg wet							V-16
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet							
Dibromomethane	ND	0.0020	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet							
trans-1,4-Dichloro-2-butene	ND	0.0040	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.020	mg/Kg wet							
1,1-Dichloroethane	ND	0.0020	mg/Kg wet							
1,2-Dichloroethane	ND	0.0020	mg/Kg wet							
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
1,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,3-Dichloropropane	ND	0.0010	mg/Kg wet							
2,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,1-Dichloropropene	ND	0.0020	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
Ethylbenzene	ND	0.0020	mg/Kg wet							
Hexachlorobutadiene	ND	0.0020	mg/Kg wet							
2-Hexanone (MBK)	ND	0.020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet							
Methylene Chloride	ND	0.020	mg/Kg wet							
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet							
Naphthalene	ND	0.0040	mg/Kg wet							L-03, V-05
n-Propylbenzene	ND	0.0020	mg/Kg wet							
Styrene	ND	0.0020	mg/Kg wet							
1,1,1,2-Tetrachloroethane	ND	0.0020	mg/Kg wet							
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg wet							
Tetrachloroethylene	ND	0.0020	mg/Kg wet							
Tetrahydrofuran	ND	0.010	mg/Kg wet							V-16
Toluene	ND	0.0020	mg/Kg wet							
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet							
1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet							
Trichloroethylene	ND	0.0020	mg/Kg wet							
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet							
1,2,3-Trichloropropane	ND	0.0020	mg/Kg wet							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet							
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg wet							
Vinyl Chloride	ND	0.010	mg/Kg wet							



## QUALITY CONTROL

## Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B066994 - SW-846 5035</b>										
<b>Blank (B066994-BLK1)</b>				Prepared & Analyzed: 01/31/13						
m+p Xylene	ND	0.0040	mg/Kg wet							
o-Xylene	ND	0.0020	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0432		mg/Kg wet	0.0500		86.4	70-130			
Surrogate: Toluene-d8	0.0509		mg/Kg wet	0.0500		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.0472		mg/Kg wet	0.0500		94.4	70-130			
<b>LCS (B066994-BS1)</b>				Prepared & Analyzed: 01/31/13						
Acetone	0.186	0.10	mg/Kg wet	0.200		92.9	70-130			V-16
Acrylonitrile	0.0187	0.0060	mg/Kg wet	0.0200		93.3	70-130			
Benzene	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130			
Bromobenzene	0.0197	0.0020	mg/Kg wet	0.0200		98.4	70-130			
Bromodichloromethane	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130			
Bromoform	0.0219	0.0020	mg/Kg wet	0.0200		109	70-130			
Bromomethane	0.0208	0.010	mg/Kg wet	0.0200		104	70-130			
2-Butanone (MEK)	0.198	0.040	mg/Kg wet	0.200		98.9	70-130			V-16
n-Butylbenzene	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130			
sec-Butylbenzene	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130			
tert-Butylbenzene	0.0198	0.0020	mg/Kg wet	0.0200		99.1	70-130			
Carbon Disulfide	0.187	0.0060	mg/Kg wet	0.200		93.5	70-130			
<b>Carbon Tetrachloride</b>	0.0294	0.0020	mg/Kg wet	0.0200		<b>147</b>	* 70-130			L-01, V-20
Chlorobenzene	0.0187	0.0020	mg/Kg wet	0.0200		93.6	70-130			
Chlorodibromomethane	0.0205	0.0010	mg/Kg wet	0.0200		102	70-130			
Chloroethane	0.0183	0.020	mg/Kg wet	0.0200		91.4	70-130			
Chloroform	0.0202	0.0040	mg/Kg wet	0.0200		101	70-130			
Chloromethane	0.0197	0.010	mg/Kg wet	0.0200		98.7	70-130			
2-Chlorotoluene	0.0181	0.0020	mg/Kg wet	0.0200		90.7	70-130			
4-Chlorotoluene	0.0179	0.0020	mg/Kg wet	0.0200		89.3	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.0192	0.0020	mg/Kg wet	0.0200		96.1	70-130			V-16
1,2-Dibromoethane (EDB)	0.0215	0.0010	mg/Kg wet	0.0200		107	70-130			
Dibromomethane	0.0205	0.0020	mg/Kg wet	0.0200		103	70-130			
1,2-Dichlorobenzene	0.0198	0.0020	mg/Kg wet	0.0200		99.1	70-130			
1,3-Dichlorobenzene	0.0192	0.0020	mg/Kg wet	0.0200		96.1	70-130			
1,4-Dichlorobenzene	0.0215	0.0020	mg/Kg wet	0.0200		107	70-130			
trans-1,4-Dichloro-2-butene	0.0170	0.0040	mg/Kg wet	0.0200		84.8	70-130			
Dichlorodifluoromethane (Freon 12)	0.0197	0.020	mg/Kg wet	0.0200		98.4	70-130			
1,1-Dichloroethane	0.0193	0.0020	mg/Kg wet	0.0200		96.7	70-130			
1,2-Dichloroethane	0.0177	0.0020	mg/Kg wet	0.0200		88.3	70-130			
1,1-Dichloroethylene	0.0173	0.0040	mg/Kg wet	0.0200		86.3	70-130			
cis-1,2-Dichloroethylene	0.0220	0.0020	mg/Kg wet	0.0200		110	70-130			
trans-1,2-Dichloroethylene	0.0196	0.0020	mg/Kg wet	0.0200		97.8	70-130			
1,2-Dichloropropane	0.0189	0.0020	mg/Kg wet	0.0200		94.5	70-130			
1,3-Dichloropropane	0.0197	0.0010	mg/Kg wet	0.0200		98.3	70-130			
2,2-Dichloropropane	0.0223	0.0020	mg/Kg wet	0.0200		112	70-130			
1,1-Dichloropropene	0.0194	0.0020	mg/Kg wet	0.0200		97.0	70-130			
cis-1,3-Dichloropropene	0.0188	0.0010	mg/Kg wet	0.0200		93.9	70-130			
trans-1,3-Dichloropropene	0.0180	0.0010	mg/Kg wet	0.0200		90.2	70-130			
Ethylbenzene	0.0200	0.0020	mg/Kg wet	0.0200		99.8	70-130			
Hexachlorobutadiene	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130			
2-Hexanone (MBK)	0.177	0.020	mg/Kg wet	0.200		88.4	70-130			
Isopropylbenzene (Cumene)	0.0188	0.0020	mg/Kg wet	0.0200		94.0	70-130			
p-Isopropyltoluene (p-Cymene)	0.0211	0.0020	mg/Kg wet	0.0200		106	70-130			
Methyl tert-Butyl Ether (MTBE)	0.0175	0.0040	mg/Kg wet	0.0200		87.4	70-130			



**QUALITY CONTROL**
**Volatile Organic Compounds by GC/MS - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B066994 - SW-846 5035</b>										
<b>LCS (B066994-BS1)</b>				Prepared & Analyzed: 01/31/13						
Methylene Chloride	0.0151	0.020	mg/Kg wet	0.0200		75.4	70-130			
4-Methyl-2-pentanone (MIBK)	0.185	0.020	mg/Kg wet	0.200		92.6	70-130			
<b>Naphthalene</b>	0.0123	0.0040	mg/Kg wet	0.0200		<b>61.3</b>	* 70-130			L-03, V-05
n-Propylbenzene	0.0189	0.0020	mg/Kg wet	0.0200		94.5	70-130			
Styrene	0.0188	0.0020	mg/Kg wet	0.0200		93.9	70-130			
1,1,1,2-Tetrachloroethane	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130			
1,1,2,2-Tetrachloroethane	0.0197	0.0010	mg/Kg wet	0.0200		98.3	70-130			
Tetrachloroethylene	0.0197	0.0020	mg/Kg wet	0.0200		98.6	70-130			
Tetrahydrofuran	0.0196	0.010	mg/Kg wet	0.0200		97.8	70-130			V-16
Toluene	0.0182	0.0020	mg/Kg wet	0.0200		91.0	70-130			
1,2,3-Trichlorobenzene	0.0159	0.0020	mg/Kg wet	0.0200		79.4	70-130			
1,2,4-Trichlorobenzene	0.0161	0.0020	mg/Kg wet	0.0200		80.6	70-130			
1,1,1-Trichloroethane	0.0215	0.0020	mg/Kg wet	0.0200		108	70-130			
1,1,2-Trichloroethane	0.0200	0.0020	mg/Kg wet	0.0200		100	70-130			
Trichloroethylene	0.0198	0.0020	mg/Kg wet	0.0200		99.0	70-130			
Trichlorofluoromethane (Freon 11)	0.0203	0.010	mg/Kg wet	0.0200		101	70-130			
1,2,3-Trichloropropane	0.0199	0.0020	mg/Kg wet	0.0200		99.7	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0215	0.010	mg/Kg wet	0.0200		107	70-130			
1,2,4-Trimethylbenzene	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130			
1,3,5-Trimethylbenzene	0.0201	0.0020	mg/Kg wet	0.0200		100	70-130			
Vinyl Chloride	0.0177	0.010	mg/Kg wet	0.0200		88.6	70-130			
m+p Xylene	0.0382	0.0040	mg/Kg wet	0.0400		95.4	70-130			
o-Xylene	0.0179	0.0020	mg/Kg wet	0.0200		89.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0438		mg/Kg wet	0.0500		87.6	70-130			
Surrogate: Toluene-d8	0.0522		mg/Kg wet	0.0500		104	70-130			
Surrogate: 4-Bromofluorobenzene	0.0497		mg/Kg wet	0.0500		99.4	70-130			



**QUALITY CONTROL**
**Semivolatile Organic Compounds by GC/MS - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B066816 - SW-846 3510C**
**Blank (B066816-BLK1)**

Prepared: 01/28/13 Analyzed: 01/29/13

Acenaphthene (low)	ND	0.30	µg/L							
Acenaphthylene (low)	ND	0.30	µg/L							
Anthracene (low)	ND	0.20	µg/L							
Benzo(a)anthracene (low)	ND	0.050	µg/L							
Benzo(a)pyrene (low)	ND	0.10	µg/L							
Benzo(b)fluoranthene (low)	ND	0.050	µg/L							
Benzo(g,h,i)perylene (low)	ND	0.50	µg/L							
Benzo(k)fluoranthene (low)	ND	0.20	µg/L							
Chrysene (low)	ND	0.20	µg/L							
Dibenz(a,h)anthracene (low)	ND	0.20	µg/L							
Fluoranthene (low)	ND	0.50	µg/L							
Fluorene (low)	ND	1.0	µg/L							
Indeno(1,2,3-cd)pyrene (low)	ND	0.20	µg/L							
2-Methylnaphthalene (low)	ND	1.0	µg/L							
Naphthalene (low)	ND	1.0	µg/L							
Phenanthrene (low)	ND	0.050	µg/L							
Pyrene (low)	ND	1.0	µg/L							
Surrogate: Nitrobenzene-d5 (low)	89.4		µg/L	100		89.4	30-130			
Surrogate: 2-Fluorobiphenyl (low)	81.9		µg/L	100		81.9	30-130			
Surrogate: Terphenyl-d14 (low)	97.3		µg/L	100		97.3	30-130			

**LCS (B066816-BS1)**

Prepared: 01/28/13 Analyzed: 01/29/13

Acenaphthene (low)	46.6	7.5	µg/L	50.0		93.2	40-140			
Acenaphthylene (low)	47.2	7.5	µg/L	50.0		94.4	40-140			
Anthracene (low)	48.2	5.0	µg/L	50.0		96.4	40-140			
Benzo(a)anthracene (low)	48.5	1.2	µg/L	50.0		97.0	40-140			
Benzo(a)pyrene (low)	48.4	2.5	µg/L	50.0		96.8	40-140			
Benzo(b)fluoranthene (low)	51.5	1.2	µg/L	50.0		103	40-140			
Benzo(g,h,i)perylene (low)	48.0	12	µg/L	50.0		96.1	40-140			
Benzo(k)fluoranthene (low)	47.5	5.0	µg/L	50.0		95.0	40-140			
Chrysene (low)	44.6	5.0	µg/L	50.0		89.2	40-140			
Dibenz(a,h)anthracene (low)	50.0	5.0	µg/L	50.0		100	40-140			
Fluoranthene (low)	45.1	12	µg/L	50.0		90.2	40-140			
Fluorene (low)	47.4	25	µg/L	50.0		94.8	40-140			
Indeno(1,2,3-cd)pyrene (low)	50.2	5.0	µg/L	50.0		100	40-140			
2-Methylnaphthalene (low)	39.4	25	µg/L	50.0		78.9	40-140			
Naphthalene (low)	39.0	25	µg/L	50.0		78.1	40-140			
Phenanthrene (low)	43.0	1.2	µg/L	50.0		86.0	40-140			
Pyrene (low)	46.9	25	µg/L	50.0		93.8	40-140			
Surrogate: Nitrobenzene-d5 (low)	88.0		µg/L	100		88.0	30-130			
Surrogate: 2-Fluorobiphenyl (low)	89.6		µg/L	100		89.6	30-130			
Surrogate: Terphenyl-d14 (low)	90.8		µg/L	100		90.8	30-130			



**QUALITY CONTROL**
**Semivolatile Organic Compounds by GC/MS - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B066816 - SW-846 3510C**
**LCS Dup (B066816-BSD1)**

Prepared: 01/28/13 Analyzed: 01/29/13

Acenaphthene (low)	46.8	7.5	µg/L	50.0		93.6	40-140	0.428	20	
Acenaphthylene (low)	46.2	7.5	µg/L	50.0		92.5	40-140	1.98	20	
Anthracene (low)	48.0	5.0	µg/L	50.0		96.1	40-140	0.364	20	
Benzo(a)anthracene (low)	48.3	1.2	µg/L	50.0		96.6	40-140	0.413	20	
Benzo(a)pyrene (low)	48.5	2.5	µg/L	50.0		97.0	40-140	0.258	20	
Benzo(b)fluoranthene (low)	51.5	1.2	µg/L	50.0		103	40-140	0.0971	20	
Benzo(g,h,i)perylene (low)	48.0	12	µg/L	50.0		96.0	40-140	0.104	20	
Benzo(k)fluoranthene (low)	47.9	5.0	µg/L	50.0		95.8	40-140	0.891	20	
Chrysene (low)	44.6	5.0	µg/L	50.0		89.1	40-140	0.112	20	
Dibenz(a,h)anthracene (low)	49.7	5.0	µg/L	50.0		99.4	40-140	0.651	20	
Fluoranthene (low)	45.5	12	µg/L	50.0		91.0	40-140	0.938	20	
Fluorene (low)	47.6	25	µg/L	50.0		95.3	40-140	0.473	20	
Indeno(1,2,3-cd)pyrene (low)	49.8	5.0	µg/L	50.0		99.6	40-140	0.700	50	
2-Methylnaphthalene (low)	39.1	25	µg/L	50.0		78.2	40-140	0.891	20	
Naphthalene (low)	38.4	25	µg/L	50.0		76.7	40-140	1.81	20	
Phenanthrene (low)	42.8	1.2	µg/L	50.0		85.6	40-140	0.466	20	
Pyrene (low)	46.0	25	µg/L	50.0		92.0	40-140	1.99	20	
Surrogate: Nitrobenzene-d5 (low)	88.7		µg/L	100		88.7	30-130			
Surrogate: 2-Fluorobiphenyl (low)	92.2		µg/L	100		92.2	30-130			
Surrogate: Terphenyl-d14 (low)	91.0		µg/L	100		91.0	30-130			

**Batch B066884 - SW-846 3546**
**Blank (B066884-BLK1)**

Prepared: 01/29/13 Analyzed: 01/30/13

Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Surrogate: Nitrobenzene-d5	2.95		mg/Kg wet	3.33		88.5	30-130			
Surrogate: 2-Fluorobiphenyl	2.99		mg/Kg wet	3.33		89.8	30-130			
Surrogate: Terphenyl-d14	3.94		mg/Kg wet	3.33		118	30-130			



**QUALITY CONTROL**
**Semivolatile Organic Compounds by GC/MS - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B066884 - SW-846 3546**
**LCS (B066884-BS1)**

Prepared: 01/29/13 Analyzed: 01/30/13

Acenaphthene	1.55	0.17	mg/Kg wet	1.67		92.9	40-140			
Acenaphthylene	1.55	0.17	mg/Kg wet	1.67		93.0	40-140			
Anthracene	1.66	0.17	mg/Kg wet	1.67		99.8	40-140			
Benzo(a)anthracene	1.74	0.17	mg/Kg wet	1.67		104	40-140			
Benzo(a)pyrene	1.70	0.17	mg/Kg wet	1.67		102	40-140			
Benzo(b)fluoranthene	1.64	0.17	mg/Kg wet	1.67		98.1	40-140			
Benzo(g,h,i)perylene	1.72	0.17	mg/Kg wet	1.67		103	40-140			
Benzo(k)fluoranthene	1.53	0.17	mg/Kg wet	1.67		92.0	40-140			
Chrysene	1.63	0.17	mg/Kg wet	1.67		97.6	40-140			
Dibenz(a,h)anthracene	1.80	0.17	mg/Kg wet	1.67		108	40-140			
Fluoranthene	1.53	0.17	mg/Kg wet	1.67		92.0	40-140			
Fluorene	1.66	0.17	mg/Kg wet	1.67		99.3	40-140			
Indeno(1,2,3-cd)pyrene	1.84	0.17	mg/Kg wet	1.67		110	40-140			
2-Methylnaphthalene	1.51	0.17	mg/Kg wet	1.67		90.6	40-140			
Naphthalene	1.44	0.17	mg/Kg wet	1.67		86.4	40-140			
Phenanthrene	1.63	0.17	mg/Kg wet	1.67		97.9	40-140			
Pyrene	1.86	0.17	mg/Kg wet	1.67		112	40-140			
Surrogate: Nitrobenzene-d5	3.10		mg/Kg wet	3.33		92.9	30-130			
Surrogate: 2-Fluorobiphenyl	3.05		mg/Kg wet	3.33		91.4	30-130			
Surrogate: Terphenyl-d14	4.10		mg/Kg wet	3.33		123	30-130			

**LCS Dup (B066884-BS1)**

Prepared: 01/29/13 Analyzed: 01/30/13

Acenaphthene	1.61	0.17	mg/Kg wet	1.67		96.4	40-140	3.72	30	
Acenaphthylene	1.63	0.17	mg/Kg wet	1.67		98.0	40-140	5.22	30	
Anthracene	1.70	0.17	mg/Kg wet	1.67		102	40-140	2.20	30	
Benzo(a)anthracene	1.76	0.17	mg/Kg wet	1.67		106	40-140	1.46	30	
Benzo(a)pyrene	1.77	0.17	mg/Kg wet	1.67		106	40-140	3.76	30	
Benzo(b)fluoranthene	1.63	0.17	mg/Kg wet	1.67		97.9	40-140	0.224	30	
Benzo(g,h,i)perylene	1.84	0.17	mg/Kg wet	1.67		110	40-140	6.88	30	
Benzo(k)fluoranthene	1.60	0.17	mg/Kg wet	1.67		96.1	40-140	4.40	30	
Chrysene	1.64	0.17	mg/Kg wet	1.67		98.3	40-140	0.776	30	
Dibenz(a,h)anthracene	1.93	0.17	mg/Kg wet	1.67		116	40-140	6.91	30	
Fluoranthene	1.60	0.17	mg/Kg wet	1.67		96.0	40-140	4.17	30	
Fluorene	1.71	0.17	mg/Kg wet	1.67		103	40-140	3.33	30	
Indeno(1,2,3-cd)pyrene	1.95	0.17	mg/Kg wet	1.67		117	40-140	6.11	30	
2-Methylnaphthalene	1.50	0.17	mg/Kg wet	1.67		89.9	40-140	0.731	30	
Naphthalene	1.51	0.17	mg/Kg wet	1.67		90.7	40-140	4.85	30	
Phenanthrene	1.68	0.17	mg/Kg wet	1.67		101	40-140	3.04	30	
Pyrene	1.95	0.17	mg/Kg wet	1.67		117	40-140	4.49	30	
Surrogate: Nitrobenzene-d5	3.12		mg/Kg wet	3.33		93.5	30-130			
Surrogate: 2-Fluorobiphenyl	3.22		mg/Kg wet	3.33		96.6	30-130			
Surrogate: Terphenyl-d14	4.08		mg/Kg wet	3.33		123	30-130			



**QUALITY CONTROL**
**Semivolatile Organic Compounds by GC/MS - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B066884 - SW-846 3546</b>										
<b>Matrix Spike (B066884-MS1)</b>	<b>Source: 13A0687-06</b>			Prepared: 01/29/13 Analyzed: 01/31/13						
Acenaphthene	1.40	0.18	mg/Kg dry	1.79	ND	78.3	40-140			
Acenaphthylene	1.43	0.18	mg/Kg dry	1.79	ND	80.0	40-140			
Anthracene	1.42	0.18	mg/Kg dry	1.79	ND	79.5	40-140			
Benzo(a)anthracene	1.47	0.18	mg/Kg dry	1.79	ND	82.2	40-140			
Benzo(a)pyrene	1.50	0.18	mg/Kg dry	1.79	ND	83.8	40-140			
Benzo(b)fluoranthene	1.42	0.18	mg/Kg dry	1.79	ND	79.4	40-140			
Benzo(g,h,i)perylene	0.937	0.18	mg/Kg dry	1.79	ND	52.4	40-140			R-06
Benzo(k)fluoranthene	1.59	0.18	mg/Kg dry	1.79	ND	88.9	40-140			
Chrysene	1.43	0.18	mg/Kg dry	1.79	ND	80.2	40-140			
Dibenz(a,h)anthracene	1.15	0.18	mg/Kg dry	1.79	ND	64.2	40-140			R-06
Fluoranthene	1.31	0.18	mg/Kg dry	1.79	ND	73.3	40-140			
Fluorene	1.52	0.18	mg/Kg dry	1.79	ND	85.2	40-140			
Indeno(1,2,3-cd)pyrene	1.37	0.18	mg/Kg dry	1.79	ND	76.6	40-140			R-06
2-Methylnaphthalene	1.33	0.18	mg/Kg dry	1.79	ND	74.4	40-140			
Naphthalene	1.32	0.18	mg/Kg dry	1.79	ND	73.6	40-140			
Phenanthrene	1.44	0.18	mg/Kg dry	1.79	ND	80.6	40-140			
Pyrene	1.36	0.18	mg/Kg dry	1.79	ND	76.2	40-140			
Surrogate: Nitrobenzene-d5	2.62		mg/Kg dry	3.58		73.2	30-130			
Surrogate: 2-Fluorobiphenyl	2.60		mg/Kg dry	3.58		72.6	30-130			
Surrogate: Terphenyl-d14	2.69		mg/Kg dry	3.58		75.3	30-130			
<b>Matrix Spike Dup (B066884-MSD1)</b>	<b>Source: 13A0687-06</b>			Prepared: 01/29/13 Analyzed: 01/31/13						
Acenaphthene	1.66	0.18	mg/Kg dry	1.79	ND	93.1	40-140	17.3	30	
Acenaphthylene	1.70	0.18	mg/Kg dry	1.79	ND	94.9	40-140	17.1	30	
Anthracene	1.69	0.18	mg/Kg dry	1.79	ND	94.8	40-140	17.5	30	
Benzo(a)anthracene	1.81	0.18	mg/Kg dry	1.79	ND	101	40-140	21.0	30	
Benzo(a)pyrene	1.80	0.18	mg/Kg dry	1.79	ND	101	40-140	18.3	30	
Benzo(b)fluoranthene	1.76	0.18	mg/Kg dry	1.79	ND	98.5	40-140	21.4	30	
Benzo(g,h,i)perylene	1.49	0.18	mg/Kg dry	1.79	ND	83.2	40-140	<b>45.5</b>	*	R-06
Benzo(k)fluoranthene	1.78	0.18	mg/Kg dry	1.79	ND	99.6	40-140	11.4	30	
Chrysene	1.78	0.18	mg/Kg dry	1.79	ND	99.5	40-140	21.5	30	
Dibenz(a,h)anthracene	1.64	0.18	mg/Kg dry	1.79	ND	92.0	40-140	<b>35.6</b>	*	R-06
Fluoranthene	1.64	0.18	mg/Kg dry	1.79	ND	91.9	40-140	22.5	30	
Fluorene	1.72	0.18	mg/Kg dry	1.79	ND	96.4	40-140	12.4	30	
Indeno(1,2,3-cd)pyrene	1.99	0.18	mg/Kg dry	1.79	ND	111	40-140	<b>36.8</b>	*	R-06
2-Methylnaphthalene	1.59	0.18	mg/Kg dry	1.79	ND	88.9	40-140	17.7	30	
Naphthalene	1.57	0.18	mg/Kg dry	1.79	ND	87.8	40-140	17.6	30	
Phenanthrene	1.71	0.18	mg/Kg dry	1.79	ND	95.7	40-140	17.1	30	
Pyrene	1.69	0.18	mg/Kg dry	1.79	ND	94.6	40-140	21.5	30	
Surrogate: Nitrobenzene-d5	3.13		mg/Kg dry	3.58		87.7	30-130			
Surrogate: 2-Fluorobiphenyl	3.29		mg/Kg dry	3.58		92.1	30-130			
Surrogate: Terphenyl-d14	3.51		mg/Kg dry	3.58		98.1	30-130			



## QUALITY CONTROL

## Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B066965 - SW-846 3546</b>										
<b>Blank (B066965-BLK1)</b>				Prepared & Analyzed: 01/31/13						
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Surrogate: Nitrobenzene-d5	3.72		mg/Kg wet	3.33		112	30-130			
Surrogate: 2-Fluorobiphenyl	4.25		mg/Kg wet	3.33		128	30-130			
<b>Surrogate: Terphenyl-d14</b>	<b>4.44</b>		mg/Kg wet	3.33		<b>133</b> *	30-130			S-07
<b>LCS (B066965-BS1)</b>				Prepared & Analyzed: 01/31/13						
Acenaphthene	1.89	0.17	mg/Kg wet	1.67		113	40-140			
Acenaphthylene	1.86	0.17	mg/Kg wet	1.67		112	40-140			
Anthracene	1.98	0.17	mg/Kg wet	1.67		119	40-140			
Benzo(a)anthracene	2.02	0.17	mg/Kg wet	1.67		121	40-140			
Benzo(a)pyrene	2.16	0.17	mg/Kg wet	1.67		130	40-140			
Benzo(b)fluoranthene	2.18	0.17	mg/Kg wet	1.67		131	40-140			
Benzo(g,h,i)perylene	1.73	0.17	mg/Kg wet	1.67		104	40-140			
Benzo(k)fluoranthene	2.19	0.17	mg/Kg wet	1.67		131	40-140			
Chrysene	2.14	0.17	mg/Kg wet	1.67		128	40-140			
Dibenz(a,h)anthracene	1.85	0.17	mg/Kg wet	1.67		111	40-140			
Fluoranthene	2.00	0.17	mg/Kg wet	1.67		120	40-140			
Fluorene	1.87	0.17	mg/Kg wet	1.67		112	40-140			
Indeno(1,2,3-cd)pyrene	1.84	0.17	mg/Kg wet	1.67		110	40-140			
2-Methylnaphthalene	1.74	0.17	mg/Kg wet	1.67		104	40-140			
Naphthalene	1.71	0.17	mg/Kg wet	1.67		103	40-140			
Phenanthrene	1.98	0.17	mg/Kg wet	1.67		119	40-140			
Pyrene	2.11	0.17	mg/Kg wet	1.67		127	40-140			
Surrogate: Nitrobenzene-d5	3.37		mg/Kg wet	3.33		101	30-130			
Surrogate: 2-Fluorobiphenyl	3.95		mg/Kg wet	3.33		119	30-130			
<b>Surrogate: Terphenyl-d14</b>	<b>4.82</b>		mg/Kg wet	3.33		<b>145</b> *	30-130			S-07



**QUALITY CONTROL**
**Semivolatile Organic Compounds by GC/MS - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B066965 - SW-846 3546</b>										
<b>LCS Dup (B066965-BSD1)</b>					Prepared & Analyzed: 01/31/13					
Acenaphthene	1.83	0.17	mg/Kg wet	1.67		110	40-140	3.25	30	
Acenaphthylene	1.79	0.17	mg/Kg wet	1.67		108	40-140	3.92	30	
Anthracene	1.90	0.17	mg/Kg wet	1.67		114	40-140	4.23	30	
Benzo(a)anthracene	1.98	0.17	mg/Kg wet	1.67		119	40-140	2.38	30	
Benzo(a)pyrene	2.09	0.17	mg/Kg wet	1.67		125	40-140	3.34	30	
Benzo(b)fluoranthene	2.13	0.17	mg/Kg wet	1.67		128	40-140	2.32	30	
Benzo(g,h,i)perylene	1.40	0.17	mg/Kg wet	1.67		84.0	40-140	21.1	30	
Benzo(k)fluoranthene	2.10	0.17	mg/Kg wet	1.67		126	40-140	3.99	30	
Chrysene	2.07	0.17	mg/Kg wet	1.67		124	40-140	3.31	30	
Dibenz(a,h)anthracene	1.60	0.17	mg/Kg wet	1.67		95.9	40-140	14.6	30	
Fluoranthene	1.77	0.17	mg/Kg wet	1.67		106	40-140	12.0	30	
Fluorene	1.87	0.17	mg/Kg wet	1.67		112	40-140	0.196	30	
Indeno(1,2,3-cd)pyrene	1.56	0.17	mg/Kg wet	1.67		93.6	40-140	16.5	30	
2-Methylnaphthalene	1.76	0.17	mg/Kg wet	1.67		106	40-140	1.45	30	
Naphthalene	1.70	0.17	mg/Kg wet	1.67		102	40-140	0.546	30	
Phenanthrene	1.93	0.17	mg/Kg wet	1.67		116	40-140	2.80	30	
Pyrene	2.24	0.17	mg/Kg wet	1.67		135	40-140	6.25	30	
Surrogate: Nitrobenzene-d5	3.23		mg/Kg wet	3.33		97.0	30-130			
Surrogate: 2-Fluorobiphenyl	3.53		mg/Kg wet	3.33		106	30-130			
<b>Surrogate: Terphenyl-d14</b>	4.77		mg/Kg wet	3.33		<b>143</b>	<b>*</b> 30-130			S-07



**QUALITY CONTROL**
**Organochloride Pesticides by GC/ECD - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B066815 - SW-846 3510C</b>										
<b>Blank (B066815-BLK1)</b>				Prepared: 01/28/13 Analyzed: 01/29/13						
Alachlor	ND	0.20	µg/L							
Alachlor [2C]	ND	0.20	µg/L							
Aldrin	ND	0.050	µg/L							
Aldrin [2C]	ND	0.050	µg/L							
alpha-BHC	ND	0.050	µg/L							
alpha-BHC [2C]	ND	0.050	µg/L							
beta-BHC	ND	0.050	µg/L							
beta-BHC [2C]	ND	0.050	µg/L							
delta-BHC	ND	0.050	µg/L							
delta-BHC [2C]	ND	0.050	µg/L							
gamma-BHC (Lindane)	ND	0.030	µg/L							
gamma-BHC (Lindane) [2C]	ND	0.030	µg/L							
Chlordane	ND	0.20	µg/L							
Chlordane [2C]	ND	0.20	µg/L							
4,4'-DDD	ND	0.040	µg/L							
4,4'-DDD [2C]	ND	0.040	µg/L							
4,4'-DDE	ND	0.040	µg/L							
4,4'-DDE [2C]	ND	0.040	µg/L							
4,4'-DDT	ND	0.040	µg/L							
4,4'-DDT [2C]	ND	0.040	µg/L							
Dieldrin	ND	0.0020	µg/L							
Dieldrin [2C]	ND	0.0020	µg/L							
Endosulfan I	ND	0.050	µg/L							
Endosulfan I [2C]	ND	0.050	µg/L							
Endosulfan II	ND	0.080	µg/L							
Endosulfan II [2C]	ND	0.080	µg/L							
Endosulfan Sulfate	ND	0.080	µg/L							
Endosulfan Sulfate [2C]	ND	0.080	µg/L							
Endrin	ND	0.080	µg/L							
Endrin [2C]	ND	0.080	µg/L							
Endrin Aldehyde	ND	0.080	µg/L							
Endrin Aldehyde [2C]	ND	0.080	µg/L							
Endrin Ketone	ND	0.080	µg/L							
Endrin Ketone [2C]	ND	0.080	µg/L							
Heptachlor	ND	0.050	µg/L							
Heptachlor [2C]	ND	0.050	µg/L							
Heptachlor Epoxide	ND	0.050	µg/L							
Heptachlor Epoxide [2C]	ND	0.050	µg/L							
Hexachlorobenzene	ND	0.050	µg/L							
Hexachlorobenzene [2C]	ND	0.050	µg/L							
Methoxychlor	ND	0.50	µg/L							
Methoxychlor [2C]	ND	0.50	µg/L							
Toxaphene	ND	1.0	µg/L							
Toxaphene [2C]	ND	1.0	µg/L							
Surrogate: Decachlorobiphenyl	2.00		µg/L	2.00		99.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.79		µg/L	2.00		89.5	30-150			
Surrogate: Tetrachloro-m-xylene	1.82		µg/L	2.00		91.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.70		µg/L	2.00		85.2	30-150			



**QUALITY CONTROL**
**Organochloride Pesticides by GC/ECD - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B066815 - SW-846 3510C</b>										
<b>LCS (B066815-BS1)</b>				Prepared: 01/28/13 Analyzed: 01/29/13						
Alachlor	0.20	0.20	µg/L	0.200		102	40-140			
Alachlor [2C]	0.21	0.20	µg/L	0.200		105	40-140			
Aldrin	0.17	0.050	µg/L	0.200		85.3	40-140			
Aldrin [2C]	0.16	0.050	µg/L	0.200		81.8	40-140			
alpha-BHC	0.18	0.050	µg/L	0.200		91.0	40-140			
alpha-BHC [2C]	0.18	0.050	µg/L	0.200		88.4	40-140			
beta-BHC	0.19	0.050	µg/L	0.200		96.9	40-140			
beta-BHC [2C]	0.19	0.050	µg/L	0.200		93.2	40-140			
delta-BHC	0.19	0.050	µg/L	0.200		94.8	40-140			
delta-BHC [2C]	0.18	0.050	µg/L	0.200		89.6	40-140			
gamma-BHC (Lindane)	0.18	0.030	µg/L	0.200		89.2	40-140			
gamma-BHC (Lindane) [2C]	0.18	0.030	µg/L	0.200		89.3	40-140			
4,4'-DDD	0.21	0.040	µg/L	0.200		103	40-140			
4,4'-DDD [2C]	0.20	0.040	µg/L	0.200		98.0	40-140			
4,4'-DDE	0.20	0.040	µg/L	0.200		97.7	40-140			
4,4'-DDE [2C]	0.19	0.040	µg/L	0.200		93.3	40-140			
4,4'-DDT	0.20	0.040	µg/L	0.200		97.6	40-140			
4,4'-DDT [2C]	0.19	0.040	µg/L	0.200		94.3	40-140			
Dieldrin	0.20	0.0020	µg/L	0.200		102	40-140			
Dieldrin [2C]	0.19	0.0020	µg/L	0.200		94.9	40-140			
Endosulfan I	0.20	0.050	µg/L	0.200		99.4	40-140			
Endosulfan I [2C]	0.19	0.050	µg/L	0.200		94.9	40-140			
Endosulfan II	0.20	0.080	µg/L	0.200		100	40-140			
Endosulfan II [2C]	0.19	0.080	µg/L	0.200		97.4	40-140			
Endosulfan Sulfate	0.20	0.080	µg/L	0.200		101	40-140			
Endosulfan Sulfate [2C]	0.20	0.080	µg/L	0.200		97.7	40-140			
Endrin	0.20	0.080	µg/L	0.200		102	40-140			
Endrin [2C]	0.20	0.080	µg/L	0.200		98.7	40-140			
Endrin Aldehyde	0.18	0.080	µg/L	0.200		90.7	40-140			
Endrin Aldehyde [2C]	0.16	0.080	µg/L	0.200		81.3	40-140			
Endrin Ketone	0.20	0.080	µg/L	0.200		102	40-140			
Endrin Ketone [2C]	0.20	0.080	µg/L	0.200		98.6	40-140			
Heptachlor	0.18	0.050	µg/L	0.200		89.1	40-140			
Heptachlor [2C]	0.18	0.050	µg/L	0.200		87.8	40-140			
Heptachlor Epoxide	0.20	0.050	µg/L	0.200		98.1	40-140			
Heptachlor Epoxide [2C]	0.19	0.050	µg/L	0.200		94.0	40-140			
Hexachlorobenzene	0.19	0.050	µg/L	0.200		93.8	40-140			
Hexachlorobenzene [2C]	0.17	0.050	µg/L	0.200		83.9	40-140			
Methoxychlor	0.21	0.50	µg/L	0.200		104	40-140			
Methoxychlor [2C]	0.21	0.50	µg/L	0.200		107	40-140			
Surrogate: Decachlorobiphenyl	1.95		µg/L	2.00		97.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.75		µg/L	2.00		87.5	30-150			
Surrogate: Tetrachloro-m-xylene	1.79		µg/L	2.00		89.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.71		µg/L	2.00		85.3	30-150			



**QUALITY CONTROL**
**Organochloride Pesticides by GC/ECD - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B066815 - SW-846 3510C</b>										
<b>LCS Dup (B066815-BSD1)</b>				Prepared: 01/28/13 Analyzed: 01/29/13						
Alachlor	0.20	0.20	µg/L	0.200		101	40-140	0.138	20	
Alachlor [2C]	0.21	0.20	µg/L	0.200		105	40-140	0.228	20	
Aldrin	0.17	0.050	µg/L	0.200		87.1	40-140	2.07	20	
Aldrin [2C]	0.17	0.050	µg/L	0.200		83.2	40-140	1.61	20	
alpha-BHC	0.18	0.050	µg/L	0.200		91.7	40-140	0.700	20	
alpha-BHC [2C]	0.18	0.050	µg/L	0.200		89.1	40-140	0.828	20	
beta-BHC	0.19	0.050	µg/L	0.200		97.2	40-140	0.356	20	
beta-BHC [2C]	0.19	0.050	µg/L	0.200		94.0	40-140	0.892	20	
delta-BHC	0.19	0.050	µg/L	0.200		92.7	40-140	2.18	20	
delta-BHC [2C]	0.18	0.050	µg/L	0.200		90.4	40-140	0.817	20	
gamma-BHC (Lindane)	0.18	0.030	µg/L	0.200		90.1	40-140	1.09	20	
gamma-BHC (Lindane) [2C]	0.18	0.030	µg/L	0.200		90.1	40-140	0.892	20	
4,4'-DDD	0.21	0.040	µg/L	0.200		104	40-140	1.29	20	
4,4'-DDD [2C]	0.20	0.040	µg/L	0.200		99.3	40-140	1.32	20	
4,4'-DDE	0.20	0.040	µg/L	0.200		98.9	40-140	1.24	20	
4,4'-DDE [2C]	0.19	0.040	µg/L	0.200		94.8	40-140	1.50	20	
4,4'-DDT	0.20	0.040	µg/L	0.200		98.9	40-140	1.27	20	
4,4'-DDT [2C]	0.19	0.040	µg/L	0.200		95.2	40-140	1.04	20	
Dieldrin	0.21	0.0020	µg/L	0.200		103	40-140	0.981	20	
Dieldrin [2C]	0.19	0.0020	µg/L	0.200		96.1	40-140	1.26	20	
Endosulfan I	0.20	0.050	µg/L	0.200		101	40-140	1.25	20	
Endosulfan I [2C]	0.19	0.050	µg/L	0.200		96.1	40-140	1.21	20	
Endosulfan II	0.20	0.080	µg/L	0.200		102	40-140	1.27	20	
Endosulfan II [2C]	0.20	0.080	µg/L	0.200		98.6	40-140	1.27	20	
Endosulfan Sulfate	0.20	0.080	µg/L	0.200		101	40-140	0.608	20	
Endosulfan Sulfate [2C]	0.20	0.080	µg/L	0.200		98.7	40-140	1.00	20	
Endrin	0.20	0.080	µg/L	0.200		102	40-140	0.868	20	
Endrin [2C]	0.20	0.080	µg/L	0.200		99.6	40-140	0.933	20	
Endrin Aldehyde	0.18	0.080	µg/L	0.200		89.0	40-140	1.86	20	
Endrin Aldehyde [2C]	0.16	0.080	µg/L	0.200		81.3	40-140	0.0800	20	
Endrin Ketone	0.21	0.080	µg/L	0.200		103	40-140	0.787	20	
Endrin Ketone [2C]	0.20	0.080	µg/L	0.200		99.5	40-140	0.904	20	
Heptachlor	0.18	0.050	µg/L	0.200		88.5	40-140	0.659	20	
Heptachlor [2C]	0.17	0.050	µg/L	0.200		87.2	40-140	0.686	20	
Heptachlor Epoxide	0.20	0.050	µg/L	0.200		99.1	40-140	1.08	20	
Heptachlor Epoxide [2C]	0.19	0.050	µg/L	0.200		94.9	40-140	0.958	20	
Hexachlorobenzene	0.18	0.050	µg/L	0.200		90.7	40-140	3.33	20	
Hexachlorobenzene [2C]	0.16	0.050	µg/L	0.200		81.2	40-140	3.26	20	
Methoxychlor	0.21	0.50	µg/L	0.200		104	40-140	0.163	20	
Methoxychlor [2C]	0.21	0.50	µg/L	0.200		107	40-140	0.272	20	
Surrogate: Decachlorobiphenyl	1.80		µg/L	2.00		89.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.60		µg/L	2.00		80.1	30-150			
Surrogate: Tetrachloro-m-xylene	1.62		µg/L	2.00		80.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.53		µg/L	2.00		76.5	30-150			



**QUALITY CONTROL**
**Organochloride Pesticides by GC/ECD - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B066914 - SW-846 3546</b>										
<b>Blank (B066914-BLK1)</b>				Prepared: 01/30/13 Analyzed: 01/31/13						
Alachlor	ND	0.020	mg/Kg wet							
Alachlor [2C]	ND	0.020	mg/Kg wet							
Aldrin	ND	0.0050	mg/Kg wet							
Aldrin [2C]	ND	0.0050	mg/Kg wet							
alpha-BHC	ND	0.0050	mg/Kg wet							
alpha-BHC [2C]	ND	0.0050	mg/Kg wet							
beta-BHC	ND	0.0050	mg/Kg wet							
beta-BHC [2C]	ND	0.0050	mg/Kg wet							
delta-BHC	ND	0.0050	mg/Kg wet							
delta-BHC [2C]	ND	0.0050	mg/Kg wet							
gamma-BHC (Lindane)	ND	0.0020	mg/Kg wet							
gamma-BHC (Lindane) [2C]	ND	0.0020	mg/Kg wet							
Chlordane	ND	0.020	mg/Kg wet							
Chlordane [2C]	ND	0.020	mg/Kg wet							
4,4'-DDD	ND	0.0040	mg/Kg wet							
4,4'-DDD [2C]	ND	0.0040	mg/Kg wet							
4,4'-DDE	ND	0.0040	mg/Kg wet							
4,4'-DDE [2C]	ND	0.0040	mg/Kg wet							
4,4'-DDT	ND	0.0040	mg/Kg wet							
4,4'-DDT [2C]	ND	0.0040	mg/Kg wet							
Dieldrin	ND	0.0040	mg/Kg wet							
Dieldrin [2C]	ND	0.0040	mg/Kg wet							
Endosulfan I	ND	0.0050	mg/Kg wet							
Endosulfan I [2C]	ND	0.0050	mg/Kg wet							
Endosulfan II	ND	0.0080	mg/Kg wet							
Endosulfan II [2C]	ND	0.0080	mg/Kg wet							
Endosulfan Sulfate	ND	0.0080	mg/Kg wet							
Endosulfan Sulfate [2C]	ND	0.0080	mg/Kg wet							
Endrin	ND	0.0080	mg/Kg wet							
Endrin [2C]	ND	0.0080	mg/Kg wet							
Endrin Aldehyde	ND	0.0080	mg/Kg wet							
Endrin Aldehyde [2C]	ND	0.0080	mg/Kg wet							
Endrin Ketone	ND	0.0080	mg/Kg wet							
Endrin Ketone [2C]	ND	0.0080	mg/Kg wet							
Heptachlor	ND	0.0050	mg/Kg wet							
Heptachlor [2C]	ND	0.0050	mg/Kg wet							
Heptachlor Epoxide	ND	0.0050	mg/Kg wet							
Heptachlor Epoxide [2C]	ND	0.0050	mg/Kg wet							
Hexachlorobenzene	ND	0.0060	mg/Kg wet							
Hexachlorobenzene [2C]	ND	0.0060	mg/Kg wet							
Methoxychlor	ND	0.050	mg/Kg wet							
Methoxychlor [2C]	ND	0.050	mg/Kg wet							
Toxaphene	ND	0.10	mg/Kg wet							
Toxaphene [2C]	ND	0.10	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.179		mg/Kg wet	0.200		89.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.169		mg/Kg wet	0.200		84.4	30-150			
Surrogate: Tetrachloro-m-xylene	0.172		mg/Kg wet	0.200		86.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.166		mg/Kg wet	0.200		83.0	30-150			



**QUALITY CONTROL**
**Organochloride Pesticides by GC/ECD - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B066914 - SW-846 3546</b>										
<b>LCS (B066914-BS1)</b>				Prepared: 01/30/13 Analyzed: 01/31/13						
Alachlor	0.021	0.020	mg/Kg wet	0.0200		103	40-140			
Alachlor [2C]	0.020	0.020	mg/Kg wet	0.0200		98.1	40-140			
Aldrin	0.019	0.0050	mg/Kg wet	0.0200		96.1	40-140			
Aldrin [2C]	0.019	0.0050	mg/Kg wet	0.0200		92.6	40-140			
alpha-BHC	0.018	0.0050	mg/Kg wet	0.0200		88.6	40-140			
alpha-BHC [2C]	0.018	0.0050	mg/Kg wet	0.0200		88.1	40-140			
beta-BHC	0.019	0.0050	mg/Kg wet	0.0200		92.7	40-140			
beta-BHC [2C]	0.018	0.0050	mg/Kg wet	0.0200		91.8	40-140			
delta-BHC	0.018	0.0050	mg/Kg wet	0.0200		89.4	40-140			
delta-BHC [2C]	0.018	0.0050	mg/Kg wet	0.0200		87.9	40-140			
gamma-BHC (Lindane)	0.017	0.0020	mg/Kg wet	0.0200		87.3	40-140			
gamma-BHC (Lindane) [2C]	0.018	0.0020	mg/Kg wet	0.0200		87.6	40-140			
4,4'-DDD	0.019	0.0040	mg/Kg wet	0.0200		96.5	40-140			
4,4'-DDD [2C]	0.019	0.0040	mg/Kg wet	0.0200		93.2	40-140			
4,4'-DDE	0.019	0.0040	mg/Kg wet	0.0200		96.2	40-140			
4,4'-DDE [2C]	0.019	0.0040	mg/Kg wet	0.0200		92.6	40-140			
4,4'-DDT	0.019	0.0040	mg/Kg wet	0.0200		94.0	40-140			
4,4'-DDT [2C]	0.018	0.0040	mg/Kg wet	0.0200		91.4	40-140			
Dieldrin	0.020	0.0040	mg/Kg wet	0.0200		98.2	40-140			
Dieldrin [2C]	0.019	0.0040	mg/Kg wet	0.0200		93.2	40-140			
Endosulfan I	0.020	0.0050	mg/Kg wet	0.0200		98.8	40-140			
Endosulfan I [2C]	0.019	0.0050	mg/Kg wet	0.0200		93.4	40-140			
Endosulfan II	0.020	0.0080	mg/Kg wet	0.0200		97.6	40-140			
Endosulfan II [2C]	0.019	0.0080	mg/Kg wet	0.0200		93.4	40-140			
Endosulfan Sulfate	0.020	0.0080	mg/Kg wet	0.0200		98.0	40-140			
Endosulfan Sulfate [2C]	0.019	0.0080	mg/Kg wet	0.0200		93.8	40-140			
Endrin	0.020	0.0080	mg/Kg wet	0.0200		99.0	40-140			
Endrin [2C]	0.019	0.0080	mg/Kg wet	0.0200		93.5	40-140			
Endrin Aldehyde	0.017	0.0080	mg/Kg wet	0.0200		84.3	40-140			
Endrin Aldehyde [2C]	0.016	0.0080	mg/Kg wet	0.0200		79.3	40-140			
Endrin Ketone	0.020	0.0080	mg/Kg wet	0.0200		99.1	40-140			
Endrin Ketone [2C]	0.019	0.0080	mg/Kg wet	0.0200		94.2	40-140			
Heptachlor	0.019	0.0050	mg/Kg wet	0.0200		97.2	40-140			
Heptachlor [2C]	0.019	0.0050	mg/Kg wet	0.0200		94.2	40-140			
Heptachlor Epoxide	0.019	0.0050	mg/Kg wet	0.0200		96.2	40-140			
Heptachlor Epoxide [2C]	0.019	0.0050	mg/Kg wet	0.0200		92.5	40-140			
Hexachlorobenzene	0.020	0.0060	mg/Kg wet	0.0200		98.1	40-140			
Hexachlorobenzene [2C]	0.018	0.0060	mg/Kg wet	0.0200		89.5	40-140			
Methoxychlor	0.020	0.050	mg/Kg wet	0.0200		101	40-140			
Methoxychlor [2C]	0.020	0.050	mg/Kg wet	0.0200		98.0	40-140			
Surrogate: Decachlorobiphenyl	0.188		mg/Kg wet	0.200		93.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.178		mg/Kg wet	0.200		89.2	30-150			
Surrogate: Tetrachloro-m-xylene	0.185		mg/Kg wet	0.200		92.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.175		mg/Kg wet	0.200		87.6	30-150			



**QUALITY CONTROL**
**Organochloride Pesticides by GC/ECD - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B066914 - SW-846 3546</b>										
<b>LCS Dup (B066914-BSD1)</b>					Prepared: 01/30/13 Analyzed: 01/31/13					
Alachlor	0.019	0.020	mg/Kg wet	0.0200		95.2	40-140	8.19	30	
Alachlor [2C]	0.018	0.020	mg/Kg wet	0.0200		89.2	40-140	9.50	30	
Aldrin	0.018	0.0050	mg/Kg wet	0.0200		90.9	40-140	5.57	30	
Aldrin [2C]	0.018	0.0050	mg/Kg wet	0.0200		87.8	40-140	5.40	30	
alpha-BHC	0.016	0.0050	mg/Kg wet	0.0200		81.7	40-140	8.06	30	
alpha-BHC [2C]	0.016	0.0050	mg/Kg wet	0.0200		81.3	40-140	7.99	30	
beta-BHC	0.017	0.0050	mg/Kg wet	0.0200		85.4	40-140	8.19	30	
beta-BHC [2C]	0.017	0.0050	mg/Kg wet	0.0200		83.4	40-140	9.57	30	
delta-BHC	0.016	0.0050	mg/Kg wet	0.0200		81.2	40-140	9.62	30	
delta-BHC [2C]	0.016	0.0050	mg/Kg wet	0.0200		80.1	40-140	9.27	30	
gamma-BHC (Lindane)	0.016	0.0020	mg/Kg wet	0.0200		80.1	40-140	8.67	30	
gamma-BHC (Lindane) [2C]	0.016	0.0020	mg/Kg wet	0.0200		81.0	40-140	7.79	30	
4,4'-DDD	0.018	0.0040	mg/Kg wet	0.0200		87.7	40-140	9.61	30	
4,4'-DDD [2C]	0.017	0.0040	mg/Kg wet	0.0200		84.9	40-140	9.26	30	
4,4'-DDE	0.018	0.0040	mg/Kg wet	0.0200		88.6	40-140	8.22	30	
4,4'-DDE [2C]	0.017	0.0040	mg/Kg wet	0.0200		86.1	40-140	7.25	30	
4,4'-DDT	0.017	0.0040	mg/Kg wet	0.0200		86.3	40-140	8.52	30	
4,4'-DDT [2C]	0.017	0.0040	mg/Kg wet	0.0200		84.1	40-140	8.32	30	
Dieldrin	0.018	0.0040	mg/Kg wet	0.0200		91.1	40-140	7.56	30	
Dieldrin [2C]	0.017	0.0040	mg/Kg wet	0.0200		86.1	40-140	7.85	30	
Endosulfan I	0.018	0.0050	mg/Kg wet	0.0200		92.5	40-140	6.63	30	
Endosulfan I [2C]	0.017	0.0050	mg/Kg wet	0.0200		86.8	40-140	7.37	30	
Endosulfan II	0.018	0.0080	mg/Kg wet	0.0200		89.6	40-140	8.51	30	
Endosulfan II [2C]	0.017	0.0080	mg/Kg wet	0.0200		85.4	40-140	8.95	30	
Endosulfan Sulfate	0.018	0.0080	mg/Kg wet	0.0200		88.1	40-140	10.6	30	
Endosulfan Sulfate [2C]	0.017	0.0080	mg/Kg wet	0.0200		84.2	40-140	10.8	30	
Endrin	0.018	0.0080	mg/Kg wet	0.0200		92.0	40-140	7.31	30	
Endrin [2C]	0.017	0.0080	mg/Kg wet	0.0200		87.3	40-140	6.87	30	
Endrin Aldehyde	0.015	0.0080	mg/Kg wet	0.0200		76.8	40-140	9.30	30	
Endrin Aldehyde [2C]	0.014	0.0080	mg/Kg wet	0.0200		71.6	40-140	10.3	30	
Endrin Ketone	0.018	0.0080	mg/Kg wet	0.0200		90.3	40-140	9.32	30	
Endrin Ketone [2C]	0.017	0.0080	mg/Kg wet	0.0200		85.4	40-140	9.80	30	
Heptachlor	0.018	0.0050	mg/Kg wet	0.0200		91.6	40-140	5.90	30	
Heptachlor [2C]	0.018	0.0050	mg/Kg wet	0.0200		88.3	40-140	6.45	30	
Heptachlor Epoxide	0.018	0.0050	mg/Kg wet	0.0200		89.2	40-140	7.60	30	
Heptachlor Epoxide [2C]	0.017	0.0050	mg/Kg wet	0.0200		85.4	40-140	8.01	30	
Hexachlorobenzene	0.019	0.0060	mg/Kg wet	0.0200		96.4	40-140	1.75	30	
Hexachlorobenzene [2C]	0.018	0.0060	mg/Kg wet	0.0200		87.8	40-140	1.91	30	
Methoxychlor	0.018	0.050	mg/Kg wet	0.0200		92.4	40-140	9.04	30	
Methoxychlor [2C]	0.018	0.050	mg/Kg wet	0.0200		88.9	40-140	9.69	30	
Surrogate: Decachlorobiphenyl	0.177		mg/Kg wet	0.200		88.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.168		mg/Kg wet	0.200		83.8	30-150			
Surrogate: Tetrachloro-m-xylene	0.177		mg/Kg wet	0.200		88.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.169		mg/Kg wet	0.200		84.3	30-150			



**QUALITY CONTROL**
**Organochloride Pesticides by GC/ECD - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B066914 - SW-846 3546</b>										
<b>Matrix Spike (B066914-MS1)</b>	<b>Source: 13A0687-01</b>			Prepared: 01/30/13 Analyzed: 02/01/13						
Alachlor	0.022	0.025	mg/Kg dry	0.0253	ND	85.7	30-150			
Alachlor [2C]	0.020	0.025	mg/Kg dry	0.0253	ND	77.9	30-150			
Aldrin	0.021	0.0063	mg/Kg dry	0.0253	ND	83.8	30-150			
Aldrin [2C]	0.022	0.0063	mg/Kg dry	0.0253	ND	85.3	30-150			
alpha-BHC	0.021	0.0063	mg/Kg dry	0.0253	ND	81.5	30-150			
alpha-BHC [2C]	0.019	0.0063	mg/Kg dry	0.0253	ND	76.6	30-150			
beta-BHC	0.022	0.0063	mg/Kg dry	0.0253	ND	87.5	30-150			
beta-BHC [2C]	0.023	0.0063	mg/Kg dry	0.0253	ND	89.3	30-150			
delta-BHC	0.021	0.0063	mg/Kg dry	0.0253	ND	82.4	30-150			
delta-BHC [2C]	0.020	0.0063	mg/Kg dry	0.0253	ND	79.8	30-150			
gamma-BHC (Lindane)	0.021	0.0025	mg/Kg dry	0.0253	ND	81.5	30-150			
gamma-BHC (Lindane) [2C]	0.022	0.0025	mg/Kg dry	0.0253	ND	87.1	30-150			
4,4'-DDD	0.020	0.0051	mg/Kg dry	0.0253	ND	80.9	30-150			
4,4'-DDD [2C]	0.023	0.0051	mg/Kg dry	0.0253	ND	91.0	30-150			
4,4'-DDE	0.020	0.0051	mg/Kg dry	0.0253	ND	80.3	30-150			
4,4'-DDE [2C]	0.021	0.0051	mg/Kg dry	0.0253	ND	81.7	30-150			
4,4'-DDT	0.016	0.0051	mg/Kg dry	0.0253	ND	63.4	30-150			
4,4'-DDT [2C]	0.017	0.0051	mg/Kg dry	0.0253	ND	65.9	30-150			
Dieldrin	0.021	0.0051	mg/Kg dry	0.0253	ND	84.3	30-150			
Dieldrin [2C]	0.020	0.0051	mg/Kg dry	0.0253	ND	79.8	30-150			
Endosulfan I	0.020	0.0063	mg/Kg dry	0.0253	ND	79.6	30-150			
Endosulfan I [2C]	0.019	0.0063	mg/Kg dry	0.0253	ND	76.2	30-150			
Endosulfan II	0.016	0.010	mg/Kg dry	0.0253	ND	64.3	30-150			
Endosulfan II [2C]	0.018	0.010	mg/Kg dry	0.0253	ND	70.4	30-150			
Endosulfan Sulfate	0.014	0.010	mg/Kg dry	0.0253	ND	54.0	30-150			
Endosulfan Sulfate [2C]	0.015	0.010	mg/Kg dry	0.0253	ND	58.4	30-150			
Endrin	0.016	0.010	mg/Kg dry	0.0253	ND	64.2	30-150			
Endrin [2C]	0.017	0.010	mg/Kg dry	0.0253	ND	66.1	30-150			
Endrin Aldehyde	0.016	0.010	mg/Kg dry	0.0253	ND	61.4	30-150			
Endrin Aldehyde [2C]	0.015	0.010	mg/Kg dry	0.0253	ND	57.6	30-150			
Endrin Ketone	0.026	0.010	mg/Kg dry	0.0253	ND	102	30-150			
Endrin Ketone [2C]	0.025	0.010	mg/Kg dry	0.0253	ND	99.3	30-150			
Heptachlor	0.020	0.0063	mg/Kg dry	0.0253	ND	77.2	30-150			
Heptachlor [2C]	0.022	0.0063	mg/Kg dry	0.0253	ND	85.4	30-150			
Heptachlor Epoxide	0.021	0.0063	mg/Kg dry	0.0253	ND	84.9	30-150			
Heptachlor Epoxide [2C]	0.022	0.0063	mg/Kg dry	0.0253	ND	88.7	30-150			
Hexachlorobenzene	0.024	0.0076	mg/Kg dry	0.0253	ND	96.2	30-150			
Hexachlorobenzene [2C]	0.024	0.0076	mg/Kg dry	0.0253	ND	94.5	30-150			
Methoxychlor	0.018	0.063	mg/Kg dry	0.0253	ND	69.6	30-150			
Methoxychlor [2C]	0.016	0.063	mg/Kg dry	0.0253	ND	61.5	30-150			R-06
Surrogate: Decachlorobiphenyl	0.157		mg/Kg dry	0.253		61.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.206		mg/Kg dry	0.253		81.5	30-150			
Surrogate: Tetrachloro-m-xylene	0.196		mg/Kg dry	0.253		77.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.199		mg/Kg dry	0.253		78.7	30-150			



**QUALITY CONTROL**
**Organochloride Pesticides by GC/ECD - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B066914 - SW-846 3546</b>										
<b>Matrix Spike Dup (B066914-MSD1)</b>		<b>Source: 13A0687-01</b>		Prepared: 01/30/13 Analyzed: 02/01/13						
Alachlor	0.020	0.025	mg/Kg dry	0.0253	ND	80.8	30-150	5.94	30	
Alachlor [2C]	0.022	0.025	mg/Kg dry	0.0253	ND	88.8	30-150	13.2	30	
Aldrin	0.024	0.0063	mg/Kg dry	0.0253	ND	94.1	30-150	11.6	30	
Aldrin [2C]	0.023	0.0063	mg/Kg dry	0.0253	ND	90.2	30-150	5.62	30	
alpha-BHC	0.020	0.0063	mg/Kg dry	0.0253	ND	78.8	30-150	3.46	30	
alpha-BHC [2C]	0.019	0.0063	mg/Kg dry	0.0253	ND	76.4	30-150	0.333	30	
beta-BHC	0.021	0.0063	mg/Kg dry	0.0253	ND	83.8	30-150	4.31	30	
beta-BHC [2C]	0.020	0.0063	mg/Kg dry	0.0253	ND	77.9	30-150	13.6	30	
delta-BHC	0.022	0.0063	mg/Kg dry	0.0253	ND	85.3	30-150	3.51	30	
delta-BHC [2C]	0.019	0.0063	mg/Kg dry	0.0253	ND	75.4	30-150	5.67	30	
gamma-BHC (Lindane)	0.022	0.0025	mg/Kg dry	0.0253	ND	86.4	30-150	5.87	30	
gamma-BHC (Lindane) [2C]	0.024	0.0025	mg/Kg dry	0.0253	ND	93.3	30-150	6.89	30	
4,4'-DDD	0.019	0.0051	mg/Kg dry	0.0253	ND	76.4	30-150	5.81	30	
4,4'-DDD [2C]	0.021	0.0051	mg/Kg dry	0.0253	ND	83.1	30-150	9.09	30	
4,4'-DDE	0.022	0.0051	mg/Kg dry	0.0253	ND	87.5	30-150	8.63	30	
4,4'-DDE [2C]	0.022	0.0051	mg/Kg dry	0.0253	ND	85.9	30-150	5.03	30	
4,4'-DDT	0.021	0.0051	mg/Kg dry	0.0253	ND	82.2	30-150	25.8	30	
4,4'-DDT [2C]	0.019	0.0051	mg/Kg dry	0.0253	ND	74.0	30-150	11.5	30	
Dieldrin	0.020	0.0051	mg/Kg dry	0.0253	ND	78.5	30-150	7.09	30	
Dieldrin [2C]	0.022	0.0051	mg/Kg dry	0.0253	ND	88.3	30-150	10.1	30	
Endosulfan I	0.023	0.0063	mg/Kg dry	0.0253	ND	89.6	30-150	11.8	30	
Endosulfan I [2C]	0.021	0.0063	mg/Kg dry	0.0253	ND	81.6	30-150	6.77	30	
Endosulfan II	0.018	0.010	mg/Kg dry	0.0253	ND	69.6	30-150	7.99	30	
Endosulfan II [2C]	0.020	0.010	mg/Kg dry	0.0253	ND	77.8	30-150	9.96	30	
Endosulfan Sulfate	0.018	0.010	mg/Kg dry	0.0253	ND	69.8	30-150	25.5	30	
Endosulfan Sulfate [2C]	0.017	0.010	mg/Kg dry	0.0253	ND	67.1	30-150	13.9	30	
Endrin	0.016	0.010	mg/Kg dry	0.0253	ND	64.3	30-150	0.0700	30	
Endrin [2C]	0.018	0.010	mg/Kg dry	0.0253	ND	72.5	30-150	9.20	30	
Endrin Aldehyde	0.016	0.010	mg/Kg dry	0.0253	ND	62.8	30-150	2.25	30	
Endrin Aldehyde [2C]	0.016	0.010	mg/Kg dry	0.0253	ND	61.8	30-150	6.91	30	
Endrin Ketone	0.022	0.010	mg/Kg dry	0.0253	ND	86.8	30-150	15.7	30	
Endrin Ketone [2C]	0.026	0.010	mg/Kg dry	0.0253	ND	101	30-150	1.91	30	
Heptachlor	0.023	0.0063	mg/Kg dry	0.0253	ND	90.8	30-150	16.2	30	
Heptachlor [2C]	0.024	0.0063	mg/Kg dry	0.0253	ND	94.1	30-150	9.73	30	
Heptachlor Epoxide	0.021	0.0063	mg/Kg dry	0.0253	ND	82.2	30-150	3.27	30	
Heptachlor Epoxide [2C]	0.021	0.0063	mg/Kg dry	0.0253	ND	83.5	30-150	6.09	30	
Hexachlorobenzene	0.028	0.0076	mg/Kg dry	0.0253	ND	109	30-150	12.6	30	
Hexachlorobenzene [2C]	0.024	0.0076	mg/Kg dry	0.0253	ND	93.8	30-150	0.744	30	
Methoxychlor	0.023	0.063	mg/Kg dry	0.0253	ND	89.8	30-150	25.3	30	
Methoxychlor [2C]	0.023	0.063	mg/Kg dry	0.0253	ND	92.4	30-150	<b>40.2</b> *	30	R-06
Surrogate: Decachlorobiphenyl	0.173		mg/Kg dry	0.253		68.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.219		mg/Kg dry	0.253		86.7	30-150			
Surrogate: Tetrachloro-m-xylene	0.209		mg/Kg dry	0.253		82.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.211		mg/Kg dry	0.253		83.6	30-150			



**QUALITY CONTROL**
**Polychlorinated Biphenyls By GC/ECD - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B066788 - SW-846 3510C**
**Blank (B066788-BLK1)**

Prepared: 01/28/13 Analyzed: 01/29/13

Aroclor-1016	ND	0.20	µg/L							
Aroclor-1016 [2C]	ND	0.20	µg/L							
Aroclor-1221	ND	0.20	µg/L							
Aroclor-1221 [2C]	ND	0.20	µg/L							
Aroclor-1232	ND	0.20	µg/L							
Aroclor-1232 [2C]	ND	0.20	µg/L							
Aroclor-1242	ND	0.20	µg/L							
Aroclor-1242 [2C]	ND	0.20	µg/L							
Aroclor-1248	ND	0.20	µg/L							
Aroclor-1248 [2C]	ND	0.20	µg/L							
Aroclor-1254	ND	0.20	µg/L							
Aroclor-1254 [2C]	ND	0.20	µg/L							
Aroclor-1260	ND	0.20	µg/L							
Aroclor-1260 [2C]	ND	0.20	µg/L							
Aroclor-1262	ND	0.20	µg/L							
Aroclor-1262 [2C]	ND	0.20	µg/L							
Aroclor-1268	ND	0.20	µg/L							
Aroclor-1268 [2C]	ND	0.20	µg/L							
Surrogate: Decachlorobiphenyl	1.76		µg/L	2.00		88.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.78		µg/L	2.00		89.0	30-150			
Surrogate: Tetrachloro-m-xylene	1.63		µg/L	2.00		81.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.61		µg/L	2.00		80.5	30-150			

**LCS (B066788-BS1)**

Prepared: 01/28/13 Analyzed: 01/29/13

Aroclor-1016	0.51	0.20	µg/L	0.500		103	40-140			
Aroclor-1016 [2C]	0.50	0.20	µg/L	0.500		99.5	40-140			
Aroclor-1260	0.49	0.20	µg/L	0.500		97.8	40-140			
Aroclor-1260 [2C]	0.50	0.20	µg/L	0.500		101	40-140			
Surrogate: Decachlorobiphenyl	1.71		µg/L	2.00		85.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.74		µg/L	2.00		86.9	30-150			
Surrogate: Tetrachloro-m-xylene	1.58		µg/L	2.00		78.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.56		µg/L	2.00		78.2	30-150			

**LCS Dup (B066788-BSD1)**

Prepared: 01/28/13 Analyzed: 01/29/13

Aroclor-1016	0.50	0.20	µg/L	0.500		101	40-140	2.26	20	
Aroclor-1016 [2C]	0.48	0.20	µg/L	0.500		96.7	40-140	2.86	20	
Aroclor-1260	0.49	0.20	µg/L	0.500		98.4	40-140	0.669	20	
Aroclor-1260 [2C]	0.51	0.20	µg/L	0.500		101	40-140	0.702	20	
Surrogate: Decachlorobiphenyl	1.63		µg/L	2.00		81.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.66		µg/L	2.00		83.2	30-150			
Surrogate: Tetrachloro-m-xylene	1.55		µg/L	2.00		77.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.55		µg/L	2.00		77.4	30-150			



**QUALITY CONTROL**
**Polychlorinated Biphenyls By GC/ECD - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B066915 - SW-846 3546**
**Blank (B066915-BLK1)**

Prepared: 01/30/13 Analyzed: 01/31/13

Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.144		mg/Kg wet	0.200		71.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.149		mg/Kg wet	0.200		74.3	30-150			
Surrogate: Tetrachloro-m-xylene	0.158		mg/Kg wet	0.200		79.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.157		mg/Kg wet	0.200		78.4	30-150			

**LCS (B066915-BS1)**

Prepared: 01/30/13 Analyzed: 01/31/13

Aroclor-1016	0.19	0.10	mg/Kg wet	0.200		95.3	40-140			
Aroclor-1016 [2C]	0.19	0.10	mg/Kg wet	0.200		96.2	40-140			
Aroclor-1260	0.16	0.10	mg/Kg wet	0.200		81.3	40-140			
Aroclor-1260 [2C]	0.17	0.10	mg/Kg wet	0.200		83.6	40-140			
Surrogate: Decachlorobiphenyl	0.148		mg/Kg wet	0.200		73.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.151		mg/Kg wet	0.200		75.3	30-150			
Surrogate: Tetrachloro-m-xylene	0.172		mg/Kg wet	0.200		85.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.174		mg/Kg wet	0.200		86.8	30-150			

**LCS Dup (B066915-BSD1)**

Prepared: 01/30/13 Analyzed: 01/31/13

Aroclor-1016	0.19	0.10	mg/Kg wet	0.200		93.5	40-140	1.95	30	
Aroclor-1016 [2C]	0.19	0.10	mg/Kg wet	0.200		95.3	40-140	0.870	30	
Aroclor-1260	0.17	0.10	mg/Kg wet	0.200		82.8	40-140	1.84	30	
Aroclor-1260 [2C]	0.17	0.10	mg/Kg wet	0.200		85.3	40-140	2.03	30	
Surrogate: Decachlorobiphenyl	0.144		mg/Kg wet	0.200		71.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.149		mg/Kg wet	0.200		74.4	30-150			
Surrogate: Tetrachloro-m-xylene	0.161		mg/Kg wet	0.200		80.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.161		mg/Kg wet	0.200		80.3	30-150			



**QUALITY CONTROL**
**Polychlorinated Biphenyls By GC/ECD - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B066915 - SW-846 3546**
**Matrix Spike (B066915-MS1)**
**Source: 13A0687-40**

Prepared: 01/30/13 Analyzed: 01/31/13

Aroclor-1016	0.21	0.11	mg/Kg dry	0.218	ND	94.2	40-140			
Aroclor-1016 [2C]	0.14	0.11	mg/Kg dry	0.218	ND	62.7	40-140			
Aroclor-1260	0.11	0.11	mg/Kg dry	0.218	ND	52.7	40-140			
Aroclor-1260 [2C]	0.11	0.11	mg/Kg dry	0.218	ND	52.1	40-140			
Surrogate: Decachlorobiphenyl	0.0908		mg/Kg dry	0.218		41.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0947		mg/Kg dry	0.218		43.5	30-150			
Surrogate: Tetrachloro-m-xylene	0.108		mg/Kg dry	0.218		49.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.108		mg/Kg dry	0.218		49.7	30-150			

**Matrix Spike Dup (B066915-MSD1)**
**Source: 13A0687-40**

Prepared: 01/30/13 Analyzed: 01/31/13

Aroclor-1016	0.22	0.11	mg/Kg dry	0.218	ND	103	40-140	9.17	30	
Aroclor-1016 [2C]	0.13	0.11	mg/Kg dry	0.218	ND	61.7	40-140	1.68	30	
Aroclor-1260	0.11	0.11	mg/Kg dry	0.218	ND	51.7	40-140	2.05	30	
Aroclor-1260 [2C]	0.11	0.11	mg/Kg dry	0.218	ND	51.8	40-140	0.525	30	
Surrogate: Decachlorobiphenyl	0.0902		mg/Kg dry	0.218		41.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0941		mg/Kg dry	0.218		43.2	30-150			
Surrogate: Tetrachloro-m-xylene	0.103		mg/Kg dry	0.218		47.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.105		mg/Kg dry	0.218		48.3	30-150			



**QUALITY CONTROL**
**Petroleum Hydrocarbons Analyses - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B066810 - SW-846 3510C</b>										
<b>Blank (B066810-BLK1)</b>				Prepared: 01/28/13 Analyzed: 01/29/13						
CT ETPH	ND	0.075	mg/L							
Surrogate: o-Terphenyl	0.0907		mg/L	0.100		90.7	50-150			
<b>LCS (B066810-BS1)</b>				Prepared: 01/28/13 Analyzed: 01/29/13						
CT ETPH	0.922	0.075	mg/L	1.00		92.2	60-120			
Surrogate: o-Terphenyl	0.0869		mg/L	0.100		86.9	50-150			
<b>LCS Dup (B066810-BSD1)</b>				Prepared: 01/28/13 Analyzed: 01/29/13						
CT ETPH	0.896	0.075	mg/L	1.00		89.6	60-120	2.85	30	
Surrogate: o-Terphenyl	0.0867		mg/L	0.100		86.7	50-150			
<b>Batch B066898 - SW-846 3546</b>										
<b>Blank (B066898-BLK1)</b>				Prepared & Analyzed: 01/30/13						
CT ETPH	ND	10	mg/Kg wet							
Surrogate: o-Terphenyl	2.99		mg/Kg wet	3.33		89.8	50-150			
<b>LCS (B066898-BS1)</b>				Prepared & Analyzed: 01/30/13						
CT ETPH	36.2	10	mg/Kg wet	33.3		109	60-120			
Surrogate: o-Terphenyl	2.57		mg/Kg wet	3.33		77.1	50-150			
<b>LCS Dup (B066898-BSD1)</b>				Prepared & Analyzed: 01/30/13						
CT ETPH	34.2	10	mg/Kg wet	33.3		103	60-120	5.74	30	
Surrogate: o-Terphenyl	2.63		mg/Kg wet	3.33		78.8	50-150			
<b>Batch B066988 - SW-846 3546</b>										
<b>Blank (B066988-BLK1)</b>				Prepared: 01/31/13 Analyzed: 02/01/13						
CT ETPH	ND	10	mg/Kg wet							
Surrogate: o-Terphenyl	2.36		mg/Kg wet	3.33		70.8	50-150			
<b>LCS (B066988-BS1)</b>				Prepared: 01/31/13 Analyzed: 02/01/13						
CT ETPH	27.5	10	mg/Kg wet	33.3		82.5	60-120			
Surrogate: o-Terphenyl	2.49		mg/Kg wet	3.33		74.6	50-150			
<b>LCS Dup (B066988-BSD1)</b>				Prepared: 01/31/13 Analyzed: 02/01/13						
CT ETPH	26.1	10	mg/Kg wet	33.3		78.3	60-120	5.24	30	
Surrogate: o-Terphenyl	2.37		mg/Kg wet	3.33		71.2	50-150			



**QUALITY CONTROL**
**Metals Analyses (Total) - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B066804 - SW-846 3005A**
**Blank (B066804-BLK1)**

Prepared &amp; Analyzed: 01/29/13

Arsenic	ND	2.0	µg/L							
Barium	ND	50	µg/L							
Cadmium	ND	2.5	µg/L							
Chromium	ND	5.0	µg/L							
Copper	ND	25	µg/L							
Lead	ND	5.0	µg/L							
Nickel	ND	25	µg/L							
Selenium	ND	25	µg/L							
Silver	ND	2.5	µg/L							
Zinc	ND	50	µg/L							

**LCS (B066804-BS1)**

Prepared &amp; Analyzed: 01/29/13

Arsenic	242	2.0	µg/L	250		96.6	80-120			
Barium	241	50	µg/L	250		96.5	80-120			
Cadmium	242	2.5	µg/L	250		96.7	80-120			
Chromium	265	5.0	µg/L	250		106	80-120			
Copper	259	25	µg/L	250		104	80-120			
Lead	254	5.0	µg/L	250		102	80-120			
Nickel	256	25	µg/L	250		102	80-120			
Selenium	245	25	µg/L	250		97.9	80-120			
Silver	258	2.5	µg/L	250		103	80-120			
Zinc	257	50	µg/L	250		103	80-120			

**LCS Dup (B066804-BSD1)**

Prepared &amp; Analyzed: 01/29/13

Arsenic	240	2.0	µg/L	250		96.0	80-120	0.683	20	
Barium	233	50	µg/L	250		93.1	80-120	3.60	20	
Cadmium	239	2.5	µg/L	250		95.4	80-120	1.36	20	
Chromium	257	5.0	µg/L	250		103	80-120	2.90	20	
Copper	259	25	µg/L	250		104	80-120	0.127	20	
Lead	245	5.0	µg/L	250		98.1	80-120	3.61	20	
Nickel	254	25	µg/L	250		101	80-120	0.931	20	
Selenium	241	25	µg/L	250		96.6	80-120	1.33	20	
Silver	254	2.5	µg/L	250		102	80-120	1.52	20	
Zinc	257	50	µg/L	250		103	80-120	0.378	20	

**Duplicate (B066804-DUP1)**
**Source: 13A0687-29**

Prepared &amp; Analyzed: 01/29/13

Arsenic	ND	2.0	µg/L		ND		NC	20		
Barium	ND	50	µg/L		ND		NC	20		
Cadmium	ND	2.5	µg/L		ND		NC	20		
Chromium	ND	5.0	µg/L		ND		NC	20		
Copper	ND	25	µg/L		ND		NC	20		
Lead	ND	5.0	µg/L		ND		NC	20		
Nickel	ND	25	µg/L		ND		NC	20		
Selenium	ND	25	µg/L		ND		NC	20		
Silver	ND	2.5	µg/L		ND		NC	20		
Zinc	ND	50	µg/L		ND		NC	20		



**QUALITY CONTROL**
**Metals Analyses (Total) - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B066804 - SW-846 3005A**
**Matrix Spike (B066804-MS1)**
**Source: 13A0687-29**

Prepared &amp; Analyzed: 01/29/13

Arsenic	224	2.0	µg/L	250	ND	89.4	75-125			
Barium	221	50	µg/L	250	ND	88.6	75-125			
Cadmium	224	2.5	µg/L	250	ND	89.7	75-125			
Chromium	241	5.0	µg/L	250	ND	96.5	75-125			
Copper	238	25	µg/L	250	ND	95.0	75-125			
Lead	234	5.0	µg/L	250	ND	93.8	75-125			
Nickel	234	25	µg/L	250	1.29	93.0	75-125			
Selenium	225	25	µg/L	250	ND	89.8	75-125			
Silver	240	2.5	µg/L	250	ND	95.8	75-125			
Zinc	249	50	µg/L	250	10.6	95.5	75-125			

**Batch B066868 - SW-846 3050B**
**Blank (B066868-BLK1)**

Prepared: 01/29/13 Analyzed: 01/30/13

Arsenic	ND	2.5	mg/Kg wet							
Barium	ND	2.5	mg/Kg wet							
Cadmium	ND	0.25	mg/Kg wet							
Chromium	ND	0.50	mg/Kg wet							
Copper	ND	0.50	mg/Kg wet							
Lead	ND	0.75	mg/Kg wet							
Nickel	ND	0.50	mg/Kg wet							
Selenium	ND	5.0	mg/Kg wet							
Silver	ND	0.50	mg/Kg wet							
Zinc	ND	1.0	mg/Kg wet							

**LCS (B066868-BS1)**

Prepared: 01/29/13 Analyzed: 01/30/13

Arsenic	83.6	5.0	mg/Kg wet	94.5		88.5	82.2-117.5			
Barium	147	5.0	mg/Kg wet	166		88.7	83.1-116.3			
Cadmium	52.4	0.50	mg/Kg wet	59.9		87.4	84-115.9			
Chromium	61.6	0.99	mg/Kg wet	69.3		88.9	81.4-118.6			
Copper	71.8	0.99	mg/Kg wet	78.0		92.0	83.7-116.2			
<b>Lead</b>	73.8	1.5	mg/Kg wet	91.7		<b>80.5</b>	* 82.4-117.8			L-07
Nickel	49.8	0.99	mg/Kg wet	56.6		88.0	82.2-117.8			
Selenium	138	9.9	mg/Kg wet	159		86.6	79.2-120.8			
Silver	29.1	0.99	mg/Kg wet	33.9		85.9	66.4-133.9			
Zinc	117	2.0	mg/Kg wet	137		85.3	81-119			

**LCS Dup (B066868-BSD1)**

Prepared: 01/29/13 Analyzed: 01/30/13

Arsenic	86.3	5.0	mg/Kg wet	94.5		91.3	82.2-117.5	3.16	30	
Barium	151	5.0	mg/Kg wet	166		91.0	83.1-116.3	2.59	30	
Cadmium	54.9	0.50	mg/Kg wet	59.9		91.7	84-115.9	4.72	30	
Chromium	64.6	1.0	mg/Kg wet	69.3		93.2	81.4-118.6	4.74	30	
Copper	75.0	1.0	mg/Kg wet	78.0		96.2	83.7-116.2	4.40	30	
Lead	77.0	1.5	mg/Kg wet	91.7		84.0	82.4-117.8	4.29	30	
Nickel	51.4	1.0	mg/Kg wet	56.6		90.8	82.2-117.8	3.05	30	
Selenium	144	10	mg/Kg wet	159		90.5	79.2-120.8	4.46	30	
Silver	28.8	1.0	mg/Kg wet	33.9		84.9	66.4-133.9	1.14	30	
Zinc	124	2.0	mg/Kg wet	137		90.2	81-119	5.55	30	



**QUALITY CONTROL**
**Metals Analyses (Total) - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B066868 - SW-846 3050B</b>										
<b>MRL Check (B066868-MRL1)</b>				Prepared: 01/29/13 Analyzed: 01/30/13						
Lead	0.606	0.72	mg/Kg wet	0.719		84.3	80-120			
<b>Batch B066882 - SW-846 3050B</b>										
<b>Blank (B066882-BLK1)</b>				Prepared: 01/29/13 Analyzed: 02/01/13						
Arsenic	ND	2.5	mg/Kg wet							
Barium	ND	2.5	mg/Kg wet							
Cadmium	ND	0.25	mg/Kg wet							
Chromium	ND	0.50	mg/Kg wet							
Copper	0.52	0.50	mg/Kg wet							B-07
Lead	ND	0.75	mg/Kg wet							
Nickel	ND	0.50	mg/Kg wet							
Selenium	ND	5.0	mg/Kg wet							
Silver	ND	0.50	mg/Kg wet							
Zinc	ND	1.0	mg/Kg wet							
<b>LCS (B066882-BS1)</b>				Prepared: 01/29/13 Analyzed: 02/01/13						
Arsenic	90.4	5.0	mg/Kg wet	94.5		95.7	82.2-117.5			
Barium	162	5.0	mg/Kg wet	166		97.9	83.1-116.3			
Cadmium	56.1	0.50	mg/Kg wet	59.9		93.6	84-115.9			
Chromium	72.8	1.0	mg/Kg wet	69.3		105	81.4-118.6			
Copper	80.2	1.0	mg/Kg wet	78.0		103	83.7-116.2			B
Lead	84.4	1.5	mg/Kg wet	91.7		92.1	82.4-117.8			
Nickel	55.8	1.0	mg/Kg wet	56.6		98.6	82.2-117.8			
Selenium	151	10	mg/Kg wet	159		95.1	79.2-120.8			
Silver	32.1	1.0	mg/Kg wet	33.9		94.7	66.4-133.9			
Zinc	128	2.0	mg/Kg wet	137		93.4	81-119			
<b>LCS Dup (B066882-BSD1)</b>				Prepared: 01/29/13 Analyzed: 02/01/13						
Arsenic	89.3	5.0	mg/Kg wet	94.5		94.5	82.2-117.5	1.19	30	
Barium	161	5.0	mg/Kg wet	166		97.1	83.1-116.3	0.737	30	
Cadmium	55.4	0.50	mg/Kg wet	59.9		92.4	84-115.9	1.24	30	
Chromium	68.5	1.0	mg/Kg wet	69.3		98.8	81.4-118.6	6.10	30	
Copper	79.1	1.0	mg/Kg wet	78.0		101	83.7-116.2	1.40	30	B
Lead	82.4	1.5	mg/Kg wet	91.7		89.9	82.4-117.8	2.40	30	
Nickel	54.4	1.0	mg/Kg wet	56.6		96.1	82.2-117.8	2.48	30	
Selenium	147	10	mg/Kg wet	159		92.3	79.2-120.8	3.05	30	
Silver	31.8	1.0	mg/Kg wet	33.9		93.9	66.4-133.9	0.869	30	
Zinc	127	2.0	mg/Kg wet	137		92.9	81-119	0.607	30	
<b>Duplicate (B066882-DUP1)</b>				<b>Source: 13A0687-03</b>		Prepared: 01/29/13 Analyzed: 02/01/13				
Arsenic	ND	3.1	mg/Kg dry		ND			NC	35	
Barium	65.3	3.1	mg/Kg dry		55.5			16.2	35	
Cadmium	0.488	0.31	mg/Kg dry		0.435			11.4	35	
Chromium	13.3	0.62	mg/Kg dry		13.2			0.987	35	
Copper	16.2	0.62	mg/Kg dry		15.6			4.25	35	B-07, B
Lead	1120	0.93	mg/Kg dry		609			<b>59.2</b> *	35	R-02
Nickel	7.25	0.62	mg/Kg dry		7.17			1.15	35	
Selenium	ND	6.2	mg/Kg dry		ND			NC	35	
Silver	0.639	0.62	mg/Kg dry		ND			NC	35	
Zinc	168	1.2	mg/Kg dry		165			1.67	35	



**QUALITY CONTROL**
**Metals Analyses (Total) - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B066882 - SW-846 3050B**
**MRL Check (B066882-MRL1)**

Prepared: 01/29/13 Analyzed: 02/01/13

Lead	0.716	0.73	mg/Kg wet	0.729		98.2	80-120			
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**Matrix Spike (B066882-MS1)**
**Source: 13A0687-03**

Prepared: 01/29/13 Analyzed: 02/01/13

Arsenic	30.2	3.2	mg/Kg dry	32.4	ND	93.4	75-125			
Barium	82.9	3.2	mg/Kg dry	32.4	55.5	84.8	75-125			
Cadmium	29.0	0.32	mg/Kg dry	32.4	0.435	88.4	75-125			
Chromium	44.8	0.65	mg/Kg dry	32.4	13.2	97.7	75-125			
Copper	47.1	0.65	mg/Kg dry	32.4	15.6	97.5	75-125			B
<b>Lead</b>	444	0.97	mg/Kg dry	32.4	609	<b>-509</b> *	75-125			MS-19
Nickel	37.4	0.65	mg/Kg dry	32.4	7.17	93.4	75-125			
Selenium	25.2	6.5	mg/Kg dry	32.4	ND	77.8	75-125			
Silver	29.6	0.65	mg/Kg dry	32.4	ND	91.4	75-125			
<b>Zinc</b>	184	1.3	mg/Kg dry	32.4	165	<b>58.7</b> *	75-125			MS-19

**Batch B066885 - SW-846 7471**
**Blank (B066885-BLK1)**

Prepared &amp; Analyzed: 01/30/13

Mercury	ND	0.025	mg/Kg wet							
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**LCS (B066885-BS1)**

Prepared &amp; Analyzed: 01/30/13

Mercury	5.09	0.33	mg/Kg wet	3.73		<b>136</b> *	71.7-128.3			L-07
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**LCS Dup (B066885-BSD1)**

Prepared &amp; Analyzed: 01/30/13

Mercury	4.02	0.33	mg/Kg wet	3.73		108	71.7-128.3	23.4	30	
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**Duplicate (B066885-DUP1)**
**Source: 13A0687-03**

Prepared &amp; Analyzed: 01/30/13

Mercury	0.182	0.033	mg/Kg dry		0.134			30.3	35	
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**Matrix Spike (B066885-MS1)**
**Source: 13A0687-03**

Prepared &amp; Analyzed: 01/30/13

Mercury	0.361	0.032	mg/Kg dry	0.216	0.134	105	75-125			
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**Batch B066890 - SW-846 7470A Prep**
**Blank (B066890-BLK1)**

Prepared &amp; Analyzed: 01/30/13

Mercury	ND	0.00010	mg/L							
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**LCS (B066890-BS1)**

Prepared &amp; Analyzed: 01/30/13

Mercury	0.00194	0.00010	mg/L	0.00200		97.0	80-120			
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**LCS Dup (B066890-BSD1)**

Prepared &amp; Analyzed: 01/30/13

Mercury	0.00192	0.00010	mg/L	0.00200		96.0	80-120	1.06	20	
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# QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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### Batch B066872 - % Solids

#### Duplicate (B066872-DUP3)

Source: 13A0687-01

Prepared: 01/29/13 Analyzed: 01/30/13

% Solids	79.4		% Wt		79.1			0.379	20	
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### Batch B066945 - % Solids

#### Duplicate (B066945-DUP1)

Source: 13A0687-24

Prepared: 01/30/13 Analyzed: 01/31/13

% Solids	89.8		% Wt		88.4			1.57	20	
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## BREAKDOWN REPORT

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**Lab Sample ID:** S003782-PEM1 **Analyzed:** 01/29/2013

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**Column Number:** 1

Analyte	% Breakdown
4,4'-DDT [1]	2.38
Endrin [1]	2.78

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**Column Number:** 2

Analyte	% Breakdown
4,4'-DDT [2]	2.62
Endrin [2]	2.11

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## BREAKDOWN REPORT

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**Lab Sample ID:** S003782-PEM2 **Analyzed:** 01/29/2013

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**Column Number:** 1

Analyte	% Breakdown
4,4'-DDT [1]	2.72
Endrin [1]	3.09

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**Column Number:** 2

Analyte	% Breakdown
4,4'-DDT [2]	3.05
Endrin [2]	2.83

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## BREAKDOWN REPORT

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**Lab Sample ID:** S003790-PEM1 **Analyzed:** 01/31/2013

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**Column Number:** 1

Analyte	% Breakdown
4,4'-DDT [1]	0.28
Endrin [1]	1.64

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## BREAKDOWN REPORT

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**Lab Sample ID:** S003790-PEM1 **Analyzed:** 01/31/2013

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**Column Number:** 2

Analyte	% Breakdown
4,4'-DDT [2]	0.34
Endrin [2]	1.51

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## BREAKDOWN REPORT

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**Lab Sample ID:** S003790-PEM2 **Analyzed:** 01/31/2013

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**Column Number:** 1

Analyte	% Breakdown
4,4'-DDT [1]	0.46
Endrin [1]	1.91

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**Column Number:** 2

Analyte	% Breakdown
4,4'-DDT [2]	0.50
Endrin [2]	1.74

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## BREAKDOWN REPORT

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**Lab Sample ID:** S003790-PEM3 **Analyzed:** 02/01/2013

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**Column Number:** 1

Analyte	% Breakdown
4,4'-DDT [1]	1.26
Endrin [1]	1.68

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**Column Number:** 2

Analyte	% Breakdown
4,4'-DDT [2]	1.29
Endrin [2]	1.54

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# FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
B	Analyte is found in the associated blank as well as in the sample.
B-07	Data is not affected by elevated level in blank since sample result is >10x level found in the blank.
DL-03	Elevated reporting limit due to matrix.
L-01	Laboratory fortified blank /laboratory control sample recovery outside of control limits. Data validation is not affected since all results are "not detected" for all samples in this batch for this compound and bias is on the high side.
L-03	Laboratory fortified blank/laboratory control sample recovery is outside of control limits. Reported value for this compound is likely to be biased on the low side.
L-07	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.
MS-07	Matrix spike recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possibility of sample matrix effects that lead to low bias for reported result or non-homogeneous sample aliquot cannot be eliminated.
MS-08	Matrix spike recovery outside of control limits. Possibility of sample matrix effects that lead to a low bias for reported result or non-homogeneous sample aliquots cannot be eliminated.
MS-14	Matrix spike recovery is outside of control limits. Data validation is not affected since sample result is "not detected" and recovery bias is on the high side for this compound.
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.
R-02	Duplicate RPD is outside of control limits. Outlier can be attributed to sample non-homogeneity encountered during sample prep.
R-06	Matrix spike duplicate RPD is outside of control limits. Reduced precision is anticipated for reported result for this compound in this sample.
S-07	One associated surrogate standard recovery is outside of control limits but the other(s) is/are within limits. All recoveries are > 10%.
V-05	Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.
V-16	Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.
V-20	Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.



# CERTIFICATIONS

## Certified Analyses included in this Report

Analyte	Certifications
<b>CTDEP ETPH in Soil</b>	
CT ETPH	CT
<b>CTDEP ETPH in Water</b>	
CT ETPH	CT
<b>SW-846 6010C in Soil</b>	
Arsenic	CT,NH,NY,ME,NC,VA
Barium	CT,NH,NY,ME,NC,VA
Cadmium	CT,NH,NY,ME,NC,VA
Chromium	CT,NH,NY,ME,NC,VA
Copper	CT,NH,NY,ME,NC,VA
Lead	CT,NH,NY,AIHA,ME,NC,VA
Nickel	CT,NH,NY,ME,NC,VA
Selenium	CT,NH,NY,ME,NC,VA
Silver	CT,NH,NY,ME,NC,VA
Zinc	CT,NH,NY,ME,NC,VA
<b>SW-846 6020A in Water</b>	
Arsenic	CT,NH,NY,RI,NC,ME,VA
Barium	CT,NH,NY,RI,NC,ME,VA
Cadmium	CT,NH,NY,RI,NC,ME,VA
Chromium	CT,NH,NY,RI,NC,ME,VA
Copper	CT,NH,NY,RI,NC,ME,VA
Lead	CT,NH,NY,RI,NC,ME,VA
Nickel	CT,NH,NY,RI,NC,ME,VA
Selenium	CT,NH,NY,RI,NC,ME,VA
Silver	CT,NH,NY,RI,NC,ME,VA
Zinc	CT,NH,NY,RI,NC,ME,VA
<b>SW-846 7470A in Water</b>	
Mercury	CT,NH,NY,RI,NC,ME,VA
<b>SW-846 7471B in Soil</b>	
Mercury	CT,NH,NY,NC,ME,VA
<b>SW-846 8081B in Soil</b>	
Alachlor	NC
Alachlor [2C]	NC
Aldrin	CT,NH,NY,ME,NC,VA
Aldrin [2C]	CT,NH,NY,ME,NC,VA
alpha-BHC	CT,NH,NY,ME,NC,VA
alpha-BHC [2C]	CT,NH,NY,ME,NC,VA
beta-BHC	CT,NH,NY,ME,NC,VA
beta-BHC [2C]	CT,NH,NY,ME,NC,VA
delta-BHC	CT,NH,NY,ME,NC,VA
delta-BHC [2C]	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane)	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane) [2C]	CT,NH,NY,ME,NC,VA
Chlordane	CT,NH,NY,ME,NC,VA
Chlordane [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDD	CT,NH,NY,ME,NC,VA



**CERTIFICATIONS**
**Certified Analyses included in this Report**

Analyte	Certifications
<b><i>SW-846 8081B in Soil</i></b>	
4,4'-DDD [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDE	CT,NH,NY,ME,NC,VA
4,4'-DDE [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDT	CT,NH,NY,ME,NC,VA
4,4'-DDT [2C]	CT,NH,NY,ME,NC,VA
Dieldrin	CT,NH,NY,ME,NC,VA
Dieldrin [2C]	CT,NH,NY,ME,NC,VA
Endosulfan I	CT,NH,NY,ME,NC,VA
Endosulfan I [2C]	CT,NH,NY,ME,NC,VA
Endosulfan II	CT,NH,NY,ME,NC,VA
Endosulfan II [2C]	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate [2C]	CT,NH,NY,ME,NC,VA
Endrin	CT,NH,NY,ME,NC,VA
Endrin [2C]	CT,NH,NY,ME,NC,VA
Endrin Aldehyde	CT,NH,NY,ME,NC,VA
Endrin Aldehyde [2C]	CT,NH,NY,ME,NC,VA
Endrin Ketone	NC
Endrin Ketone [2C]	NC
Heptachlor	CT,NH,NY,ME,NC,VA
Heptachlor [2C]	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide [2C]	CT,NH,NY,ME,NC,VA
Hexachlorobenzene	NC
Hexachlorobenzene [2C]	NC
Methoxychlor	CT,NH,NY,ME,NC,VA
Methoxychlor [2C]	CT,NH,NY,ME,NC,VA
Toxaphene	CT,NH,NY,ME,NC,VA
Toxaphene [2C]	CT,NH,NY,ME,NC,VA
<b><i>SW-846 8081B in Water</i></b>	
Alachlor	NC
Alachlor [2C]	NC
Aldrin	CT,NH,NY,RI,ME,NC,VA
Aldrin [2C]	CT,NH,NY,RI,ME,NC,VA
alpha-BHC	CT,NH,NY,RI,ME,NC,VA
alpha-BHC [2C]	CT,NH,NY,RI,ME,NC,VA
beta-BHC	CT,NH,NY,RI,ME,NC,VA
beta-BHC [2C]	CT,NH,NY,RI,ME,NC,VA
delta-BHC	CT,NH,NY,RI,ME,NC,VA
delta-BHC [2C]	CT,NH,NY,RI,ME,NC,VA
gamma-BHC (Lindane)	CT,NH,NY,RI,ME,NC,VA
gamma-BHC (Lindane) [2C]	CT,NH,NY,RI,ME,NC,VA
Chlordane	CT,NH,NY,RI,ME,NC,VA
Chlordane [2C]	CT,NH,NY,RI,ME,NC,VA
4,4'-DDD	CT,NH,NY,RI,ME,NC,VA
4,4'-DDD [2C]	CT,NH,NY,RI,ME,NC,VA



**CERTIFICATIONS**
**Certified Analyses included in this Report**

Analyte	Certifications
<b><i>SW-846 8081B in Water</i></b>	
4,4'-DDE	CT,NH,NY,RI,ME,NC,VA
4,4'-DDE [2C]	CT,NH,NY,RI,ME,NC,VA
4,4'-DDT	CT,NH,NY,RI,ME,NC,VA
4,4'-DDT [2C]	CT,NH,NY,RI,ME,NC,VA
Dieldrin	CT,NH,NY,RI,ME,NC,VA
Dieldrin [2C]	CT,NH,NY,RI,ME,NC,VA
Endosulfan I	CT,NH,NY,RI,ME,NC,VA
Endosulfan I [2C]	CT,NH,NY,RI,ME,NC,VA
Endosulfan II	CT,NH,NY,RI,ME,NC,VA
Endosulfan II [2C]	CT,NH,NY,RI,ME,NC,VA
Endosulfan Sulfate	CT,NH,NY,RI,ME,NC,VA
Endosulfan Sulfate [2C]	CT,NH,NY,RI,ME,NC,VA
Endrin	CT,NH,NY,RI,ME,NC,VA
Endrin [2C]	CT,NH,NY,RI,ME,NC,VA
Endrin Aldehyde	CT,NH,NY,RI,ME,NC,VA
Endrin Aldehyde [2C]	CT,NH,NY,RI,ME,NC,VA
Endrin Ketone	NC
Endrin Ketone [2C]	NC
Heptachlor	CT,NH,NY,RI,ME,NC,VA
Heptachlor [2C]	CT,NH,NY,RI,ME,NC,VA
Heptachlor Epoxide	CT,NH,NY,RI,ME,NC,VA
Heptachlor Epoxide [2C]	CT,NH,NY,RI,ME,NC,VA
Hexachlorobenzene	NC
Hexachlorobenzene [2C]	NC
Methoxychlor	CT,NH,NY,RI,ME,NC,VA
Methoxychlor [2C]	CT,NH,NY,RI,ME,NC,VA
Toxaphene	CT,NH,NY,RI,ME,NC,VA
Toxaphene [2C]	CT,NH,NY,RI,ME,NC,VA
<b><i>SW-846 8082A in Soil</i></b>	
Aroclor-1016	CT,NH,NY,NC,ME,VA
Aroclor-1016 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1221	CT,NH,NY,NC,ME,VA
Aroclor-1221 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1232	CT,NH,NY,NC,ME,VA
Aroclor-1232 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1242	CT,NH,NY,NC,ME,VA
Aroclor-1242 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1248	CT,NH,NY,NC,ME,VA
Aroclor-1248 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1254	CT,NH,NY,NC,ME,VA
Aroclor-1254 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1260	CT,NH,NY,NC,ME,VA
Aroclor-1260 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1262	NC
Aroclor-1262 [2C]	NC
Aroclor-1268	NC



# CERTIFICATIONS

## Certified Analyses included in this Report

Analyte	Certifications
<b>SW-846 8082A in Soil</b>	
Aroclor-1268 [2C]	NC
<b>SW-846 8082A in Water</b>	
Aroclor-1016	CT,NH,NY,RI,NC,ME,VA
Aroclor-1016 [2C]	CT,NH,NY,RI,NC,ME,VA
Aroclor-1221	CT,NH,NY,RI,NC,ME,VA
Aroclor-1221 [2C]	CT,NH,NY,RI,NC,ME,VA
Aroclor-1232	CT,NH,NY,RI,NC,ME,VA
Aroclor-1232 [2C]	CT,NH,NY,RI,NC,ME,VA
Aroclor-1242	CT,NH,NY,RI,NC,ME,VA
Aroclor-1242 [2C]	CT,NH,NY,RI,NC,ME,VA
Aroclor-1248	CT,NH,NY,RI,NC,ME,VA
Aroclor-1248 [2C]	CT,NH,NY,RI,NC,ME,VA
Aroclor-1254	CT,NH,NY,RI,NC,ME,VA
Aroclor-1254 [2C]	CT,NH,NY,RI,NC,ME,VA
Aroclor-1260	CT,NH,NY,RI,NC,ME,VA
Aroclor-1260 [2C]	CT,NH,NY,RI,NC,ME,VA
Aroclor-1262	NC
Aroclor-1262 [2C]	NC
Aroclor-1268	NC
Aroclor-1268 [2C]	NC
<b>SW-846 8260C in Soil</b>	
Acetone	CT,NH,NY,ME
Acrylonitrile	CT,NH,NY,ME
Benzene	CT,NH,NY,ME
Bromobenzene	NH,NY,ME
Bromodichloromethane	CT,NH,NY,ME
Bromoform	CT,NH,NY,ME
Bromomethane	CT,NH,NY,ME
2-Butanone (MEK)	CT,NH,NY,ME
n-Butylbenzene	CT,NH,NY,ME
sec-Butylbenzene	CT,NH,NY,ME
tert-Butylbenzene	CT,NH,NY,ME
Carbon Disulfide	CT,NH,NY,ME
Carbon Tetrachloride	CT,NH,NY,ME
Chlorobenzene	CT,NH,NY,ME
Chlorodibromomethane	CT,NH,NY,ME
Chloroethane	CT,NH,NY,ME
Chloroform	CT,NH,NY,ME
Chloromethane	CT,NH,NY,ME
2-Chlorotoluene	CT,NH,NY,ME
4-Chlorotoluene	CT,NH,NY,ME
Dibromomethane	NH,NY,ME
1,2-Dichlorobenzene	CT,NH,NY,ME
1,3-Dichlorobenzene	CT,NH,NY,ME
1,4-Dichlorobenzene	CT,NH,NY,ME
Dichlorodifluoromethane (Freon 12)	NY,ME



# CERTIFICATIONS

## Certified Analyses included in this Report

Analyte	Certifications
<b>SW-846 8260C in Soil</b>	
1,1-Dichloroethane	CT,NH,NY,ME
1,2-Dichloroethane	CT,NH,NY,ME
1,1-Dichloroethylene	CT,NH,NY,ME
cis-1,2-Dichloroethylene	CT,NH,NY,ME
trans-1,2-Dichloroethylene	CT,NH,NY,ME
1,2-Dichloropropane	CT,NH,NY,ME
1,3-Dichloropropane	NH,NY,ME
2,2-Dichloropropane	NH,NY,ME
1,1-Dichloropropene	NH,NY,ME
cis-1,3-Dichloropropene	CT,NH,NY,ME
trans-1,3-Dichloropropene	CT,NH,NY,ME
Ethylbenzene	CT,NH,NY,ME
Hexachlorobutadiene	NH,NY,ME
2-Hexanone (MBK)	CT,NH,NY,ME
Isopropylbenzene (Cumene)	CT,NH,NY,ME
p-Isopropyltoluene (p-Cymene)	NH,NY
Methyl tert-Butyl Ether (MTBE)	NY
Methylene Chloride	CT,NH,NY,ME
4-Methyl-2-pentanone (MIBK)	CT,NH,NY
Naphthalene	NH,NY,ME
n-Propylbenzene	NH,NY
Styrene	CT,NH,NY,ME
1,1,1,2-Tetrachloroethane	CT,NH,NY,ME
1,1,2,2-Tetrachloroethane	CT,NH,NY,ME
Tetrachloroethylene	CT,NH,NY,ME
Toluene	CT,NH,NY,ME
1,2,4-Trichlorobenzene	NH,NY,ME
1,1,1-Trichloroethane	CT,NH,NY,ME
1,1,2-Trichloroethane	CT,NH,NY,ME
Trichloroethylene	CT,NH,NY,ME
Trichlorofluoromethane (Freon 11)	CT,NH,NY,ME
1,2,3-Trichloropropane	NH,NY,ME
1,2,4-Trimethylbenzene	CT,NH,NY,ME
1,3,5-Trimethylbenzene	CT,NH,NY,ME
Vinyl Chloride	CT,NH,NY,ME
m+p Xylene	CT,NH,NY,ME
o-Xylene	CT,NH,NY,ME
<b>SW-846 8260C in Water</b>	
Acetone	CT,NH,NY,ME
Acrylonitrile	CT,NY,ME,RI
Benzene	CT,NH,NY,ME,RI
Bromodichloromethane	CT,NH,NY,ME,RI
Bromoform	CT,NH,NY,ME,RI
Bromomethane	CT,NH,NY,ME,RI
2-Butanone (MEK)	CT,NH,NY,ME
n-Butylbenzene	NY,ME



# CERTIFICATIONS

## Certified Analyses included in this Report

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



# CERTIFICATIONS

## Certified Analyses included in this Report

Analyte	Certifications
<b>SW-846 8260C in Water</b>	
Trichloroethylene	CT,NH,NY,ME,RI
Trichlorofluoromethane (Freon 11)	CT,NH,NY,ME,RI
1,2,3-Trichloropropane	NH,NY,ME
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	NY
1,2,4-Trimethylbenzene	NY,ME
1,3,5-Trimethylbenzene	NY,ME
Vinyl Chloride	CT,NH,NY,ME,RI
m+p Xylene	CT,NH,NY,ME,RI
o-Xylene	CT,NH,NY,ME,RI

## SW-846 8270D in Soil

Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA

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

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





**con-test**  
ANALYTICAL LABORATORY

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www.contestlabs.com

**CHAIN OF CUSTODY RECORD**

39 Spruce Street  
East Longmeadow, MA 01028

Page 1 of 4

Company Name: Loureiro Engineering Associates Telephone: 860.747.6181  
Address: 100 Northurst Drive Project # 18HM301

Plainville CT 06062

Attention: Dave Scotti

Project Location: Mystic, CT

Sampled By: K. D. Donato

Project Proposal Provided? (for billing purposes)  
☐ Yes ☐ No

Collection

Beginning Date/Time

Ending Date/Time

Composite

Grab

\*Matrix

Lab Code

Enhanced Data Package

Con-Test Lab ID

Client Sample ID / Description

Beginning Date/Time

Ending Date/Time

Composite

Grab

\*Matrix

Lab Code

Enhanced Data Package

Enhanced Data Package

Con-Test Lab ID

Client Sample ID / Description

Beginning Date/Time

Ending Date/Time

Composite

Grab

\*Matrix

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Enhanced Data Package

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Con-Test Lab ID

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Beginning Date/Time

Ending Date/Time

Composite

Grab

\*Matrix

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Enhanced Data Package

Enhanced Data Package

Con-Test Lab ID

Client Sample ID / Description

Beginning Date/Time

Ending Date/Time

Composite

Grab

\*Matrix

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Enhanced Data Package

Enhanced Data Package

Con-Test Lab ID

Client Sample ID / Description

Beginning Date/Time

Ending Date/Time

Composite

Grab

\*Matrix

Lab Code

Enhanced Data Package

Enhanced Data Package

Enhanced Data Package

Enhanced Data Package

Enhanced Data Package

Con-Test Lab ID

Client Sample ID / Description

Beginning Date/Time

Ending Date/Time

Composite

Grab

\*Matrix

Lab Code

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Enhanced Data Package

Enhanced Data Package

Enhanced Data Package

Con-Test Lab ID

Client Sample ID / Description

Beginning Date/Time

Ending Date/Time

Composite

Grab

\*Matrix

Lab Code

Enhanced Data Package

Enhanced Data Package

Enhanced Data Package

Enhanced Data Package

Enhanced Data Package

Con-Test Lab ID

Client Sample ID / Description

Beginning Date/Time

Ending Date/Time

Composite

Grab

\*Matrix

Lab Code

Enhanced Data Package

Enhanced Data Package

Enhanced Data Package

Enhanced Data Package

Enhanced Data Package

Con-Test Lab ID

Client Sample ID / Description

Beginning Date/Time

Ending Date/Time

Composite

Grab

\*Matrix

Lab Code

Enhanced Data Package

Enhanced Data Package

Enhanced Data Package

Enhanced Data Package

Enhanced Data Package

Con-Test Lab ID

Client Sample ID / Description

Beginning Date/Time

Ending Date/Time

Composite

Grab

\*Matrix

Lab Code

Enhanced Data Package

Enhanced Data Package

Enhanced Data Package

Enhanced Data Package

Enhanced Data Package

Con-Test Lab ID

Client Sample ID / Description

Beginning Date/Time

Ending Date/Time

Composite

Grab

\*Matrix

Lab Code

Enhanced Data Package

Enhanced Data Package

Enhanced Data Package

Enhanced Data Package

Enhanced Data Package

Con-Test Lab ID

Client Sample ID / Description

Beginning Date/Time

Ending Date/Time

Composite

Grab

\*Matrix

Lab Code

Enhanced Data Package

Enhanced Data Package

Enhanced Data Package

Enhanced Data Package

Enhanced Data Package

Con-Test Lab ID

Client Sample ID / Description

Beginning Date/Time

Ending Date/Time

Composite

Grab

\*Matrix

Lab Code

Enhanced Data Package

Enhanced Data Package

Enhanced Data Package

Enhanced Data Package

Enhanced Data Package

Con-Test Lab ID

Client Sample ID / Description

Beginning Date/Time

Ending Date/Time

Composite

Grab

\*Matrix

Lab Code

Enhanced Data Package

Enhanced Data Package

Enhanced Data Package

Enhanced Data Package

Enhanced Data Package

Con-Test Lab ID

Client Sample ID / Description

Beginning Date/Time

Ending Date/Time

Composite

Grab

\*Matrix

Lab Code

Enhanced Data Package

Enhanced Data Package

Enhanced Data Package

Enhanced Data Package

Enhanced Data Package

Con-Test Lab ID

Client Sample ID / Description

Beginning Date/Time

Ending Date/Time

Composite

Grab

\*Matrix

Lab Code

Enhanced Data Package

Enhanced Data Package

Enhanced Data Package

Enhanced Data Package

Enhanced Data Package

Con-Test Lab ID

Client Sample ID / Description

Beginning Date/Time

Ending Date/Time

Composite

Grab

\*Matrix

Lab Code

Enhanced Data Package

Enhanced Data Package

Enhanced Data Package

Enhanced Data Package

Enhanced Data Package

**ANALYSIS REQUESTED**

\*\*\*Container Code

Dissolved Metal  
☐ Field Filtered  
☐ Lab to Filter

\*\*\*Cont. Code:

A=amber glass  
G=glass  
P=plastic  
ST=sterile  
V=vial  
S=summa can  
T=tedlar bag  
O=Other

\*\*\*Preservation

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

\*\*\*Matrix Code:

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

**Is your project MCP or RCP?**

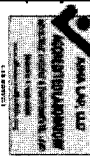
☐ MCP Form Required  
☐ RCP Form Required  
☐ MA State DW Form Required

PWSID #

NELAC & AIHA-LAP, LLC

Accredited

WBE/DBE Certified



IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT





ANALYTICAL LABORATORY

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

# CHAIN OF CUSTODY RECORD

39 Spruce Street  
East Longmeadow, MA 01028

Page 2 of 3

Company Name: Lawrence Engineering Associates

Telephone: 860.747.6181

Address: 100 Northwest Drive

Project # 18PM301

City: Plainville, CT 06062

Client PO#

Attention: Dave Scotti

DATA DELIVERY (check all that apply)  
☐ FAX ☒ EMAIL ☐ WEBSITE

Project Location: Mystic, CT

Email: dnscott@lawrence.com

Sampled By: L. Donohue

Project Proposal Provided? (for billing purposes)  
☐ Yes ☐ No

## Collection

☐ PDF ☐ EXCEL ☐ GIS  
☐ OTHER ☐ "Enhanced Data Package"

Con-Test Lab ID (Laboratory use only)	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	*Matrix	Lane Code
-11	1273813	1/25/13	1345	X	X	S	A/V
-12	1273814	1/25/13	1350	X	X	S	A/V
-13	1273815	1/25/13	1400	X	X	S	A/V
-14	1273816	1/25/13	1400	X	X	S	A/V
-15	1273817	1/25/13	1405	X	X	S	A/V
-16	1273818	1/25/13	1410	X	X	S	A/V
-17	1273819	1/25/13	1415	X	X	S	A/V
-18	1273820	1/25/13	1420	X	X	S	A/V
-19	1273821	1/25/13	1425	X	X	S	A/V
-20	1273822	1/25/13	1430	X	X	S	A/V

Comments:

01-25-13 13:45 IN

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

## Turnaround

☐ 7-Day  
☐ 10-Day  
☐ Other

## Detection Limit Requirements

Massachusetts: \_\_\_\_\_  
Connecticut: \_\_\_\_\_  
Other: \_\_\_\_\_

Is your project MCP or RCP?

Relinquished by (signature) [Signature] Date/Time: 1/25/13

Received by (signature) [Signature] Date/Time: 1-25-13

Relinquished by (signature) [Signature] Date/Time: 1-25-13

Received by (signature) [Signature] Date/Time: 1-25-13

Turnaround time starts at 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.

## ANALYSIS REQUESTED

Dissolved Metals  
☐ Field Filtered  
☐ Lab to Filter

## \*\*\*Cont. Code:

A=amber glass  
G=glass  
P=plastic  
ST=sterile  
V=vial  
S=summa can  
T=tedlar bag  
O=Other

## \*\*Preservation

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

## \*Matrix Code:

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



WB/DBE Certified

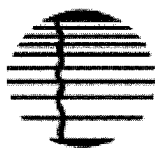




Page 3 of 4

Page 210 of 218 13A0687 1 Contest Final 02 01 13 1729 02/01/13 17:30:20





# contest

ANALYTICAL LABORATORY

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

## CHAIN OF CUSTODY RECORD

39 Spruce Street  
 East Longmeadow, MA 01028

Page 1 of 1

Company Name: Loonine

Telephone: 860 247-6181

Address: 100 Northurst Dr

Project # 18THU 301

Plainville CT 06062

Attention: Dave Scott

Client PO# DATA DELIVERY (check all that apply)  
☐ FAX ☒ EMAIL ☐ WEBSITE

Project Location: Myrtle CT

Fax # description@loonine.com

Sampled By: E. Walker

Email: description@loonine.com

Project Proposal Provided? (for billing purposes)  
☐ yes ☐ proposal date

Con-Test Lab ID <small>(laboratory use only)</small>	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	*Matrix	Lab Code	Analysis Requested	# of Containers	** Preservation	*** Container Code
-32	1273794	1/24/12	1533		X	8260	8260	8260	8260	8260	8260
-33	1273795		1535		X	8260	8260	8260	8260	8260	8260
-34	1273796		1537		X	8260	8260	8260	8260	8260	8260
-35	1273797		1540		X	8260	8260	8260	8260	8260	8260
-36	1273798		1545		X	8260	8260	8260	8260	8260	8260
-37	1273799		1547		X	8260	8260	8260	8260	8260	8260
-38	1273801		1535		X	8260	8260	8260	8260	8260	8260
-39	1273802		1536		X	8260	8260	8260	8260	8260	8260
-40	1273803	1/24/12	1605		X	8260	8260	8260	8260	8260	8260

Comments:

01-25-13 10:46 IN

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

Relinquished by: (signature)

Date/Time: 1-25-13

Turnaround ☐ 7-Day ☐ 10-Day ☐ Other

Detection Limit Requirements

Is your project MCP or RCP?

Received by: (signature)

Date/Time: 1-25-13

Turnaround ☐ 7-Day ☐ 10-Day ☐ Other

Detection Limit Requirements

Is your project MCP or RCP?

Relinquished by: (signature)

Date/Time: 1-23-13

Turnaround ☐ 7-Day ☐ 10-Day ☐ Other

Detection Limit Requirements

Is your project MCP or RCP?

Received by: (signature)

Date/Time: 1/25/13

Turnaround ☐ 7-Day ☐ 10-Day ☐ Other

Detection Limit Requirements

Is your project MCP or RCP?

IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT



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



## Sample Receipt Checklist

CLIENT NAME: Loureino RECEIVED BY: CEC DATE: 1/25/13

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

2) Does the chain agree with the samples?

If not, explain:

3) Are all the samples in good condition?

If not, explain:

4) How were the samples received:

On Ice ☒ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☒

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

Temperature °C by Temp blank \_\_\_\_\_ Temperature °C by Temp gun 2.0°

5) Are there Dissolved samples for the lab to filter?

Yes No

Who was notified \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_

6) Are there any RUSH or SHORT HOLDING TIME samples?

Yes No

Who was notified \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_

7) Location where samples are stored:

19

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

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

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

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

### Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber	<u>10</u>	8 oz <u>amber</u> /clear jar	<u>56</u>
500 mL Amber	<u>3</u>	4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic	<u>2</u>	Plastic Bag / Ziploc	
40 mL Vial - type listed below	<u>96</u>	PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

40 mL vials: # HCl 6 # Methanol 30

Doc# 277 # Bisulfate \_\_\_\_\_ # DI Water 60

Rev. 3 May 2012 # Thiosulfate \_\_\_\_\_ Unpreserved

Time and Date Frozen:



**CT ETPH DISCRIMINATION CHECK**

Date Acquired 1/29/13  
Data File Name A0129007.D  
Sample Name ETPH 1500  
Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.26	275516	291599	-6
c - 10	1.60	289336	291599	-1
c - 12	2.31	292034	291599	0
c - 14	2.98	300248	291599	3
c - 16	3.57	299719	291599	3
c - 18	4.16	305610	291599	5
o-Terphenyl	4.46	345129	291599	
c - 20	4.77	302483	291599	4
c - 22	5.28	300355	291599	3
c - 24	5.71	297681	291599	2
c - 26	6.11	294235	291599	1
c - 28	6.47	288253	291599	-1
c - 30	6.80	285888	291599	-2
c - 32	7.11	278846	291599	-4
c - 34	7.40	280214	291599	-4
c - 36	7.70	283561	291599	-3

\* One compound allowed %D <= 50%

**Samples**

13A0687-28  
13A0687-30



CT ETPH DISCRIMINATION CHECK

Date Acquired 1/30/13  
Data File Name A0130089.D  
Sample Name ETPH 1500  
Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	%D +/- 20
c - 9	1.26	268206	284209	-6
c - 10	1.60	282714	284209	-1
c - 12	2.31	286117	284209	1
c - 14	2.98	293639	284209	3
c - 16	3.57	292362	284209	3
c - 18	4.16	297256	284209	5
o-Terphenyl	4.46	334634	284209	
c - 20	4.77	293581	284209	3
c - 22	5.28	291009	284209	2
c - 24	5.71	288085	284209	1
c - 26	6.10	284587	284209	0
c - 28	6.46	279142	284209	-2
c - 30	6.80	277549	284209	-2
c - 32	7.11	272106	284209	-4
c - 34	7.40	275721	284209	-3
c - 36	7.70	281061	284209	-1

\* One compound allowed %D <= 50%

## Samples

13A0676-06  
13A0687-06  
13A0684-02  
13A0684-01  
13A0653-12@50X  
13A0687-08@5X



**CT ETPH DISCRIMINATION CHECK**

Date Acquired 1/31/13  
Data File Name A0131071.D  
Sample Name ETPH 1500  
Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.26	274695	292216	-6
c - 10	1.60	289874	292216	-1
c - 12	2.31	292902	292216	0
c - 14	2.97	300453	292216	3
c - 16	3.57	299218	292216	2
c - 18	4.16	304228	292216	4
o-Terphenyl	4.46	342889	292216	
c - 20	4.77	300638	292216	3
c - 22	5.28	298196	292216	2
c - 24	5.71	295345	292216	1
c - 26	6.11	292389	292216	0
c - 28	6.46	287421	292216	-2
c - 30	6.80	286957	292216	-2
c - 32	7.11	282178	292216	-3
c - 34	7.40	286460	292216	-2
c - 36	7.70	292292	292216	0

\* One compound allowed %D <= 50%

**Samples**

13A0687-01  
13A0687-02  
13A0687-04



**CT ETPH DISCRIMINATION CHECK**

Date Acquired 1/31/13  
Data File Name A0131070.D  
Sample Name ETPH 1500  
Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.23	274821	301803	-9
c - 10	1.58	290983	301803	-4
c - 12	2.31	295730	301803	-2
c - 14	2.98	305189	301803	1
c - 16	3.58	306838	301803	2
c - 18	4.20	315689	301803	5
o-Terphenyl	4.49	360394	301803	
c - 20	4.81	315113	301803	4
c - 22	5.31	314660	301803	4
c - 24	5.75	312392	301803	4
c - 26	6.15	308490	301803	2
c - 28	6.51	301902	301803	0
c - 30	6.84	298043	301803	-1
c - 32	7.16	292017	301803	-3
c - 34	7.45	294971	301803	-2
c - 36	7.77	300201	301803	-1

\* One compound allowed %D <= 50%

**Samples**

13A0687-05  
13A0687-09@5X



**CT ETPH DISCRIMINATION CHECK**

Date Acquired 2/1/13  
Data File Name A0201016.D  
Sample Name ETPH 1500  
Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.23	302788	332162	-9
c - 10	1.58	322243	332162	-3
c - 12	2.31	326702	332162	-2
c - 14	2.98	336451	332162	1
c - 16	3.58	337668	332162	2
c - 18	4.19	346855	332162	4
o-Terphenyl	4.49	397240	332162	
c - 20	4.81	346114	332162	4
c - 22	5.31	346247	332162	4
c - 24	5.76	344029	332162	4
c - 26	6.15	340243	332162	2
c - 28	6.51	331979	332162	0
c - 30	6.84	328344	332162	-1
c - 32	7.16	321361	332162	-3
c - 34	7.45	322945	332162	-3
c - 36	7.77	328466	332162	-1

\* One compound allowed %D <= 50%

**Samples**

13A0687-38  
13A0687-26  
13A0687-24  
13A0687-22@5X  
13A0687-23@5X  
13A0687-10@10X



CT ETPH DISCRIMINATION CHECK

Date Acquired 2/1/13  
Data File Name A0201017.D  
Sample Name ETPH 1500  
Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	">%D +/- 20
c - 9	1.26	293074	315055	-7
c - 10	1.60	311277	315055	-1
c - 12	2.31	315266	315055	0
c - 14	2.97	324294	315055	3
c - 16	3.57	323417	315055	3
c - 18	4.16	329004	315055	4
o-Terphenyl	4.46	370584	315055	
c - 20	4.77	325247	315055	3
c - 22	5.28	322507	315055	2
c - 24	5.71	319125	315055	1
c - 26	6.11	315871	315055	0
c - 28	6.46	310163	315055	-2
c - 30	6.80	309494	315055	-2
c - 32	7.11	304158	315055	-3
c - 34	7.40	308366	315055	-2
c - 36	7.71	314570	315055	0

\* One compound allowed %D <= 50%

## Samples

13A0687-40  
13A0687-13  
13A0687-17  
13A0687-03@5X  
13A0687-12@5X  
13A0687-11@5X  
13A0687-39@5X



February 6, 2013

David Scotti  
Loureiro Engineering Associates  
100 Northwest Drive  
Plainville, CT 06062

Project Location: Mystic, CT  
Client Job Number:  
Project Number: 18HM301  
Laboratory Work Order Number: 13A0744

Enclosed are results of analyses for samples received by the laboratory on January 29, 2013. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Lisa A. Worthington  
Project Manager





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

Loureiro Engineering Associates  
100 Northwest Drive  
Plainville, CT 06062  
ATTN: David Scotti

REPORT DATE: 2/6/2013

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 18HM301

#### ANALYTICAL SUMMARY

WORK ORDER NUMBER: 13A0744

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

PROJECT LOCATION: Mystic, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
1273932	13A0744-01	Trip Blank Soil		SW-846 8260C	
1273930	13A0744-02	Ground Water		CTDEP ETPH	
				SW-846 8082A	
				SW-846 8260C	
				SW-846 8270D	
				SW-846 9014	
1273930 UF	13A0744-03	Ground Water		SW-846 6020A	
				SW-846 7470A	
1273853	13A0744-04	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8260C	
				SW-846 8270D	
				SW-846 9014	
1273854	13A0744-05	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8260C	
				SW-846 8270D	
				SW-846 9014	
1273855	13A0744-06	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8260C	
				SW-846 8270D	
				SW-846 9014	
1273856	13A0744-07	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8260C	
				SW-846 8270D	
1273857	13A0744-08	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8260C	
				SW-846 8270D	



Loureiro Engineering Associates  
100 Northwest Drive  
Plainville, CT 06062  
ATTN: David Scotti

REPORT DATE: 2/6/2013

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 18HM301

**ANALYTICAL SUMMARY**

WORK ORDER NUMBER: 13A0744

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

PROJECT LOCATION: Mystic, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
1273858	13A0744-09	Soil		CTDEP ETPH SM 2540G SW-846 8082A SW-846 8260C SW-846 8270D	
1273859	13A0744-10	Soil		CTDEP ETPH SM 2540G SW-846 8260C SW-846 8270D	
1273830	13A0744-12	Soil		CTDEP ETPH SM 2540G SW-846 8260C SW-846 8270D	
1273831	13A0744-13	Soil		CTDEP ETPH SM 2540G SW-846 8260C SW-846 8270D	
1273835	13A0744-17	Soil		CTDEP ETPH SM 2540G SW-846 8260C SW-846 8270D	
1273836	13A0744-18	Soil		CTDEP ETPH SM 2540G SW-846 8260C SW-846 8270D	
1273837	13A0744-19	Soil		CTDEP ETPH SM 2540G SW-846 8260C SW-846 8270D	
1273838	13A0744-20	Soil		CTDEP ETPH SM 2540G SW-846 8260C SW-846 8270D	
1273840	13A0744-22	Soil		CTDEP ETPH SM 2540G SW-846 8260C SW-846 8270D	
1273841	13A0744-23	Soil		CTDEP ETPH SM 2540G SW-846 8260C SW-846 8270D	



Loureiro Engineering Associates  
100 Northwest Drive  
Plainville, CT 06062  
ATTN: David Scotti

REPORT DATE: 2/6/2013

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 18HM301

# ANALYTICAL SUMMARY

WORK ORDER NUMBER: 13A0744

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

PROJECT LOCATION: Mystic, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
1273844	13A0744-26	Soil		CTDEP ETPH SM 2540G SW-846 8260C SW-846 8270D	
1273846	13A0744-28	Soil		CTDEP ETPH SM 2540G SW-846 6010C SW-846 7471B SW-846 8260C SW-846 8270D	
1273849	13A0744-31	Soil		CTDEP ETPH SM 2540G SW-846 6010C SW-846 7471B SW-846 8260C SW-846 8270D	
1273852	13A0744-34	Soil		CTDEP ETPH SM 2540G SW-846 8260C SW-846 8270D	
1273929	13A0744-35	Ground Water		CTDEP ETPH SW-846 8260C SW-846 8270D	
1273292 UF	13A0744-36	Ground Water		SW-846 6020A SW-846 7470A	
1273860	13A0744-37	Soil		CTDEP ETPH SM 2540G SW-846 8082A SW-846 8260C SW-846 8270D	



#### **CASE NARRATIVE SUMMARY**

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

For method 6010, only RCRA 8 metals, Cu, Ni and Zn results were requested and reported.

For method 6020, only RCRA 8 metals, Cu, Ni and Zn results were requested and reported.

For method 8270 only PAHs were requested and reported.



**CTDEP ETPH****Qualifications:**

Elevated reporting limit due to matrix.

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

13A0744-13[1273831]

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:****CT ETPH**

13A0744-05[1273854], B067122-MS1, B067122-MSD1

**SW-846 6010C****Qualifications:**

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

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

13A0744-04[1273853], 13A0744-05[1273854], 13A0744-06[1273855], 13A0744-28[1273846], 13A0744-31[1273849], B066971-DUP1, B066971-MRL1

**SW-846 8260C****Qualifications:**

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

**Analyte & Samples(s) Qualified:****Chloromethane, Dichlorodifluoromethane (Freon 12), trans-1,4-Dichloro-2-butene, Vinyl Chloride**

13A0744-02[1273930], 13A0744-13RE1[1273831], 13A0744-17[1273835], 13A0744-19[1273837], 13A0744-20[1273838], 13A0744-22[1273840], 13A0744-23[1273841], 13A0744-26[1273844], 13A0744-28[1273846], 13A0744-31[1273849], 13A0744-34[1273852], 13A0744-35[1273929], 13A0744-37[1273860], B066980-BLK1, B066980-BS1, B067034-BLK1, B067034-BS1

Matrix spike 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:****1,1,2,2-Tetrachloroethane, 1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene, 1,2-Dibromo-3-chloropropane (DBCP), 1,2-Dibromoethane (EDB), 2,2-Dichloropropane, Bromoform, Carbon Disulfide, Chloromethane, cis-1,3-Dichloropropene, Dichlorodifluoromethane (Freon 12), Naphthalene, Tetrahydrofuran, trans-1,3-Dichloropropene, trans-1,4-Dichloro-2-butene, Vinyl Chloride**

13A0744-04[1273853], B067001-MS1

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:****Chloromethane**

13A0744-02[1273930], 13A0744-35[1273929], B066980-BLK1, B066980-BS1

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

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

13A0744-01[1273932], 13A0744-04[1273853], 13A0744-05[1273854], 13A0744-06[1273855], 13A0744-07[1273856], 13A0744-08[1273857], 13A0744-09[1273858], 13A0744-10[1273859], 13A0744-12[1273830], 13A0744-13[1273831], 13A0744-13RE1[1273831], 13A0744-17[1273835], 13A0744-18[1273836], 13A0744-19[1273837], 13A0744-20[1273838], 13A0744-22[1273840], 13A0744-23[1273841], 13A0744-26[1273844], 13A0744-28[1273846], 13A0744-31[1273849], 13A0744-34[1273852], 13A0744-37[1273860], B067001-BLK1, B067001-BS1, B067001-MS1, B067034-BLK1, B067034-BS1



Internal standard area <50% of associated calibration standard internal standard area.

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

1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene, 1,2,4-Trimethylbenzene, 1,2-Dibromo-3-chloropropane (DBCP), 1,2-Dichlorobenzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 1,4-Dichlorobenzene-d4, Hexachlorobutadiene, Naphthalene, n-Butylbenzene, p-Isopropyltoluene (p-Cymene), sec-Butylbenzene, tert-Butylbenzene  
13A0744-13[1273831], 13A0744-13RE1[1273831]

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

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

B067034-BS1

SW-846 8270D

**Qualifications:**

Analyte is found in the associated blank as well as in the sample.

**Analyte & Samples(s) Qualified:****Benzo(a)anthracene (low), Benzo(b)fluoranthene (low), Phenanthrene (low)**

B067039-BS1, B067039-BSD1, 13A0744-02[1273930]

Data is not affected by elevated level in blank since sample(s) result is "Not Detected".

**Analyte & Samples(s) Qualified:****Benzo(a)anthracene (low), Benzo(b)fluoranthene (low), Phenanthrene (low)**

13A0744-35[1273929], B067039-BLK1

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:****Terphenyl-d14**

13A0744-07[1273856], B067115-BS1, B067115-BSD1, B067172-BLK1

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:****Indeno(1,2,3-cd)pyrene (low)**

B067039-BLK1

Sample was re-extracted one day outside of holding time due to phenanthrene contamination in laboratory blank and sample, per CT RCP requirements, both sets of data are reported.

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

13A0744-02[1273930], 13A0744-02RE1[1273930]

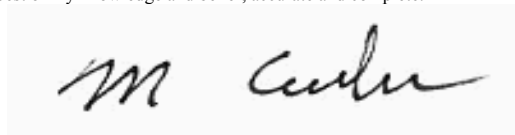


**SW-846 8260C**

All water reporting limits specified on the chain-of-custody were met except for Acrylonitrile, where the most protective criteria are not met since the laboratory cannot achieve the required RCP calibration criteria at these levels, unless otherwise listed in this narrative.

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

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

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

Michael A. Erickson  
Laboratory Director



Project Location: Mystic, CT

Sample Description:

Work Order: 13A0744

Date Received: 1/29/2013

Field Sample #: 1273932

Sampled: 1/28/2013 09:30

Sample ID: 13A0744-01

Sample Matrix: Trip Blank Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.10	mg/Kg wet	1		SW-846 8260C	1/31/13	1/31/13 22:23	MFF
Acrylonitrile	ND	0.0060	mg/Kg wet	1	V-16	SW-846 8260C	1/31/13	1/31/13 22:23	MFF
Benzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/31/13	1/31/13 22:23	MFF
Bromobenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/31/13	1/31/13 22:23	MFF
Bromodichloromethane	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/31/13	1/31/13 22:23	MFF
Bromoform	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/31/13	1/31/13 22:23	MFF
Bromomethane	ND	0.010	mg/Kg wet	1		SW-846 8260C	1/31/13	1/31/13 22:23	MFF
2-Butanone (MEK)	ND	0.040	mg/Kg wet	1		SW-846 8260C	1/31/13	1/31/13 22:23	MFF
n-Butylbenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/31/13	1/31/13 22:23	MFF
sec-Butylbenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/31/13	1/31/13 22:23	MFF
tert-Butylbenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/31/13	1/31/13 22:23	MFF
Carbon Disulfide	ND	0.0060	mg/Kg wet	1		SW-846 8260C	1/31/13	1/31/13 22:23	MFF
Carbon Tetrachloride	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/31/13	1/31/13 22:23	MFF
Chlorobenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/31/13	1/31/13 22:23	MFF
Chlorodibromomethane	ND	0.0010	mg/Kg wet	1		SW-846 8260C	1/31/13	1/31/13 22:23	MFF
Chloroethane	ND	0.020	mg/Kg wet	1		SW-846 8260C	1/31/13	1/31/13 22:23	MFF
Chloroform	ND	0.0040	mg/Kg wet	1		SW-846 8260C	1/31/13	1/31/13 22:23	MFF
Chloromethane	ND	0.010	mg/Kg wet	1		SW-846 8260C	1/31/13	1/31/13 22:23	MFF
2-Chlorotoluene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/31/13	1/31/13 22:23	MFF
4-Chlorotoluene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/31/13	1/31/13 22:23	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg wet	1	V-16	SW-846 8260C	1/31/13	1/31/13 22:23	MFF
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet	1		SW-846 8260C	1/31/13	1/31/13 22:23	MFF
Dibromomethane	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/31/13	1/31/13 22:23	MFF
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/31/13	1/31/13 22:23	MFF
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/31/13	1/31/13 22:23	MFF
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/31/13	1/31/13 22:23	MFF
trans-1,4-Dichloro-2-butene	ND	0.0040	mg/Kg wet	1		SW-846 8260C	1/31/13	1/31/13 22:23	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.020	mg/Kg wet	1		SW-846 8260C	1/31/13	1/31/13 22:23	MFF
1,1-Dichloroethane	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/31/13	1/31/13 22:23	MFF
1,2-Dichloroethane	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/31/13	1/31/13 22:23	MFF
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet	1		SW-846 8260C	1/31/13	1/31/13 22:23	MFF
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/31/13	1/31/13 22:23	MFF
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/31/13	1/31/13 22:23	MFF
1,2-Dichloropropane	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/31/13	1/31/13 22:23	MFF
1,3-Dichloropropane	ND	0.0010	mg/Kg wet	1		SW-846 8260C	1/31/13	1/31/13 22:23	MFF
2,2-Dichloropropane	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/31/13	1/31/13 22:23	MFF
1,1-Dichloropropene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/31/13	1/31/13 22:23	MFF
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg wet	1		SW-846 8260C	1/31/13	1/31/13 22:23	MFF
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg wet	1		SW-846 8260C	1/31/13	1/31/13 22:23	MFF
Ethylbenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/31/13	1/31/13 22:23	MFF
Hexachlorobutadiene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/31/13	1/31/13 22:23	MFF
2-Hexanone (MBK)	ND	0.020	mg/Kg wet	1		SW-846 8260C	1/31/13	1/31/13 22:23	MFF
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/31/13	1/31/13 22:23	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/31/13	1/31/13 22:23	MFF



Project Location: Mystic, CT

Sample Description:

Work Order: 13A0744

Date Received: 1/29/2013

Field Sample #: 1273932

Sampled: 1/28/2013 09:30

Sample ID: 13A0744-01

Sample Matrix: Trip Blank Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet	1		SW-846 8260C	1/31/13	1/31/13 22:23	MFF
Methylene Chloride	ND	0.020	mg/Kg wet	1		SW-846 8260C	1/31/13	1/31/13 22:23	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet	1		SW-846 8260C	1/31/13	1/31/13 22:23	MFF
Naphthalene	ND	0.0040	mg/Kg wet	1		SW-846 8260C	1/31/13	1/31/13 22:23	MFF
n-Propylbenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/31/13	1/31/13 22:23	MFF
Styrene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/31/13	1/31/13 22:23	MFF
1,1,1,2-Tetrachloroethane	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/31/13	1/31/13 22:23	MFF
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg wet	1		SW-846 8260C	1/31/13	1/31/13 22:23	MFF
Tetrachloroethylene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/31/13	1/31/13 22:23	MFF
Tetrahydrofuran	ND	0.010	mg/Kg wet	1	V-16	SW-846 8260C	1/31/13	1/31/13 22:23	MFF
Toluene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/31/13	1/31/13 22:23	MFF
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/31/13	1/31/13 22:23	MFF
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/31/13	1/31/13 22:23	MFF
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/31/13	1/31/13 22:23	MFF
1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/31/13	1/31/13 22:23	MFF
Trichloroethylene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/31/13	1/31/13 22:23	MFF
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet	1		SW-846 8260C	1/31/13	1/31/13 22:23	MFF
1,2,3-Trichloropropane	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/31/13	1/31/13 22:23	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	mg/Kg wet	1		SW-846 8260C	1/31/13	1/31/13 22:23	MFF
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/31/13	1/31/13 22:23	MFF
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/31/13	1/31/13 22:23	MFF
Vinyl Chloride	ND	0.010	mg/Kg wet	1		SW-846 8260C	1/31/13	1/31/13 22:23	MFF
m+p Xylene	ND	0.0040	mg/Kg wet	1		SW-846 8260C	1/31/13	1/31/13 22:23	MFF
o-Xylene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	1/31/13	1/31/13 22:23	MFF
Surrogates	% Recovery	Recovery Limits	Flag						
1,2-Dichloroethane-d4	115	70-130							
Toluene-d8	99.3	70-130							
4-Bromofluorobenzene	96.6	70-130							



Project Location: Mystic, CT

Sample Description:

Work Order: 13A0744

Date Received: 1/29/2013

Field Sample #: 1273930

Sampled: 1/28/2013 15:30

Sample ID: 13A0744-02

Sample Matrix: Ground Water

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	5.8	5.0	µg/L	1		SW-846 8260C	1/31/13	1/31/13 15:30	LBD
Acrylonitrile	ND	2.0	µg/L	1		SW-846 8260C	1/31/13	1/31/13 15:30	LBD
Benzene	ND	0.50	µg/L	1		SW-846 8260C	1/31/13	1/31/13 15:30	LBD
Bromobenzene	ND	0.50	µg/L	1		SW-846 8260C	1/31/13	1/31/13 15:30	LBD
Bromodichloromethane	ND	2.0	µg/L	1		SW-846 8260C	1/31/13	1/31/13 15:30	LBD
Bromoform	ND	0.50	µg/L	1		SW-846 8260C	1/31/13	1/31/13 15:30	LBD
Bromomethane	ND	0.50	µg/L	1		SW-846 8260C	1/31/13	1/31/13 15:30	LBD
2-Butanone (MEK)	ND	5.0	µg/L	1		SW-846 8260C	1/31/13	1/31/13 15:30	LBD
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	1/31/13	1/31/13 15:30	LBD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	1/31/13	1/31/13 15:30	LBD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	1/31/13	1/31/13 15:30	LBD
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260C	1/31/13	1/31/13 15:30	LBD
Carbon Tetrachloride	ND	0.50	µg/L	1		SW-846 8260C	1/31/13	1/31/13 15:30	LBD
Chlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	1/31/13	1/31/13 15:30	LBD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	1/31/13	1/31/13 15:30	LBD
Chloroethane	ND	0.50	µg/L	1		SW-846 8260C	1/31/13	1/31/13 15:30	LBD
Chloroform	ND	0.50	µg/L	1		SW-846 8260C	1/31/13	1/31/13 15:30	LBD
Chloromethane	ND	0.50	µg/L	1	L-03, V-05	SW-846 8260C	1/31/13	1/31/13 15:30	LBD
2-Chlorotoluene	ND	0.50	µg/L	1		SW-846 8260C	1/31/13	1/31/13 15:30	LBD
4-Chlorotoluene	ND	0.50	µg/L	1		SW-846 8260C	1/31/13	1/31/13 15:30	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	1.0	µg/L	1		SW-846 8260C	1/31/13	1/31/13 15:30	LBD
1,2-Dibromoethane (EDB)	ND	1.0	µg/L	1		SW-846 8260C	1/31/13	1/31/13 15:30	LBD
Dibromomethane	ND	0.50	µg/L	1		SW-846 8260C	1/31/13	1/31/13 15:30	LBD
1,2-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	1/31/13	1/31/13 15:30	LBD
1,3-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	1/31/13	1/31/13 15:30	LBD
1,4-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	1/31/13	1/31/13 15:30	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1	L-03	SW-846 8260C	1/31/13	1/31/13 15:30	LBD
Dichlorodifluoromethane (Freon 12)	ND	0.50	µg/L	1		SW-846 8260C	1/31/13	1/31/13 15:30	LBD
1,1-Dichloroethane	ND	0.50	µg/L	1		SW-846 8260C	1/31/13	1/31/13 15:30	LBD
1,2-Dichloroethane	ND	0.50	µg/L	1		SW-846 8260C	1/31/13	1/31/13 15:30	LBD
1,1-Dichloroethylene	ND	0.50	µg/L	1		SW-846 8260C	1/31/13	1/31/13 15:30	LBD
cis-1,2-Dichloroethylene	ND	0.50	µg/L	1		SW-846 8260C	1/31/13	1/31/13 15:30	LBD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	1/31/13	1/31/13 15:30	LBD
1,2-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	1/31/13	1/31/13 15:30	LBD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	1/31/13	1/31/13 15:30	LBD
2,2-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	1/31/13	1/31/13 15:30	LBD
1,1-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	1/31/13	1/31/13 15:30	LBD
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	1/31/13	1/31/13 15:30	LBD
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	1/31/13	1/31/13 15:30	LBD
Ethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	1/31/13	1/31/13 15:30	LBD
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260C	1/31/13	1/31/13 15:30	LBD
2-Hexanone (MBK)	ND	5.0	µg/L	1		SW-846 8260C	1/31/13	1/31/13 15:30	LBD
Isopropylbenzene (Cumene)	ND	0.50	µg/L	1		SW-846 8260C	1/31/13	1/31/13 15:30	LBD
p-Isopropyltoluene (p-Cymene)	ND	0.50	µg/L	1		SW-846 8260C	1/31/13	1/31/13 15:30	LBD



Project Location: Mystic, CT

Sample Description:

Work Order: 13A0744

Date Received: 1/29/2013

Field Sample #: 1273930

Sampled: 1/28/2013 15:30

Sample ID: 13A0744-02

Sample Matrix: Ground Water

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.50	µg/L	1		SW-846 8260C	1/31/13	1/31/13 15:30	LBD
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	1/31/13	1/31/13 15:30	LBD
4-Methyl-2-pentanone (MIBK)	ND	5.0	µg/L	1		SW-846 8260C	1/31/13	1/31/13 15:30	LBD
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	1/31/13	1/31/13 15:30	LBD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	1/31/13	1/31/13 15:30	LBD
Styrene	ND	1.0	µg/L	1		SW-846 8260C	1/31/13	1/31/13 15:30	LBD
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	1/31/13	1/31/13 15:30	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	1/31/13	1/31/13 15:30	LBD
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	1/31/13	1/31/13 15:30	LBD
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	1/31/13	1/31/13 15:30	LBD
Toluene	ND	1.0	µg/L	1		SW-846 8260C	1/31/13	1/31/13 15:30	LBD
1,2,3-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	1/31/13	1/31/13 15:30	LBD
1,2,4-Trichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	1/31/13	1/31/13 15:30	LBD
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	1/31/13	1/31/13 15:30	LBD
1,1,2-Trichloroethane	ND	0.50	µg/L	1		SW-846 8260C	1/31/13	1/31/13 15:30	LBD
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	1/31/13	1/31/13 15:30	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	1/31/13	1/31/13 15:30	LBD
1,2,3-Trichloropropane	ND	0.50	µg/L	1		SW-846 8260C	1/31/13	1/31/13 15:30	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	µg/L	1		SW-846 8260C	1/31/13	1/31/13 15:30	LBD
1,2,4-Trimethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	1/31/13	1/31/13 15:30	LBD
1,3,5-Trimethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	1/31/13	1/31/13 15:30	LBD
Vinyl Chloride	ND	1.0	µg/L	1		SW-846 8260C	1/31/13	1/31/13 15:30	LBD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	1/31/13	1/31/13 15:30	LBD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	1/31/13	1/31/13 15:30	LBD
Surrogates	% Recovery	Recovery Limits	Flag						
1,2-Dichloroethane-d4	101	70-130							
Toluene-d8	100	70-130							
4-Bromofluorobenzene	93.9	70-130							



Project Location: Mystic, CT

Sample Description:

Work Order: 13A0744

Date Received: 1/29/2013

Field Sample #: 1273930

Sampled: 1/28/2013 15:30

Sample ID: 13A0744-02

Sample Matrix: Ground Water

Sample Flags: Z-01

## Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene (low)	ND	0.30	µg/L	1		SW-846 8270D	2/5/13	2/6/13 13:07	CJM
Acenaphthene (low)	ND	0.30	µg/L	1		SW-846 8270D	2/1/13	2/4/13 13:42	BGL
Acenaphthylene (low)	ND	0.30	µg/L	1		SW-846 8270D	2/5/13	2/6/13 13:07	CJM
Acenaphthylene (low)	ND	0.30	µg/L	1		SW-846 8270D	2/1/13	2/4/13 13:42	BGL
Anthracene (low)	ND	0.20	µg/L	1		SW-846 8270D	2/5/13	2/6/13 13:07	CJM
Anthracene (low)	ND	0.20	µg/L	1		SW-846 8270D	2/1/13	2/4/13 13:42	BGL
Benzo(a)anthracene (low)	ND	0.050	µg/L	1		SW-846 8270D	2/5/13	2/6/13 13:07	CJM
Benzo(a)anthracene (low)	ND	0.050	µg/L	1		SW-846 8270D	2/1/13	2/4/13 13:42	BGL
Benzo(a)pyrene (low)	ND	0.10	µg/L	1		SW-846 8270D	2/5/13	2/6/13 13:07	CJM
Benzo(a)pyrene (low)	ND	0.10	µg/L	1		SW-846 8270D	2/1/13	2/4/13 13:42	BGL
Benzo(b)fluoranthene (low)	ND	0.050	µg/L	1		SW-846 8270D	2/5/13	2/6/13 13:07	CJM
Benzo(b)fluoranthene (low)	ND	0.050	µg/L	1		SW-846 8270D	2/1/13	2/4/13 13:42	BGL
Benzo(g,h,i)perylene (low)	ND	0.50	µg/L	1		SW-846 8270D	2/5/13	2/6/13 13:07	CJM
Benzo(g,h,i)perylene (low)	ND	0.50	µg/L	1		SW-846 8270D	2/1/13	2/4/13 13:42	BGL
Benzo(k)fluoranthene (low)	ND	0.20	µg/L	1		SW-846 8270D	2/1/13	2/4/13 13:42	BGL
Benzo(k)fluoranthene (low)	ND	0.20	µg/L	1		SW-846 8270D	2/5/13	2/6/13 13:07	CJM
Chrysene (low)	ND	0.20	µg/L	1		SW-846 8270D	2/5/13	2/6/13 13:07	CJM
Chrysene (low)	ND	0.20	µg/L	1		SW-846 8270D	2/1/13	2/4/13 13:42	BGL
Dibenz(a,h)anthracene (low)	ND	0.20	µg/L	1		SW-846 8270D	2/1/13	2/4/13 13:42	BGL
Dibenz(a,h)anthracene (low)	ND	0.20	µg/L	1		SW-846 8270D	2/5/13	2/6/13 13:07	CJM
Fluoranthene (low)	ND	0.50	µg/L	1		SW-846 8270D	2/1/13	2/4/13 13:42	BGL
Fluoranthene (low)	ND	0.50	µg/L	1		SW-846 8270D	2/5/13	2/6/13 13:07	CJM
Fluorene (low)	ND	1.0	µg/L	1		SW-846 8270D	2/1/13	2/4/13 13:42	BGL
Fluorene (low)	ND	1.0	µg/L	1		SW-846 8270D	2/5/13	2/6/13 13:07	CJM
Indeno(1,2,3-cd)pyrene (low)	ND	0.20	µg/L	1		SW-846 8270D	2/1/13	2/4/13 13:42	BGL
Indeno(1,2,3-cd)pyrene (low)	ND	0.20	µg/L	1		SW-846 8270D	2/5/13	2/6/13 13:07	CJM
2-Methylnaphthalene (low)	ND	1.0	µg/L	1		SW-846 8270D	2/5/13	2/6/13 13:07	CJM
2-Methylnaphthalene (low)	ND	1.0	µg/L	1		SW-846 8270D	2/1/13	2/4/13 13:42	BGL
Naphthalene (low)	ND	1.0	µg/L	1		SW-846 8270D	2/1/13	2/4/13 13:42	BGL
Naphthalene (low)	ND	1.0	µg/L	1		SW-846 8270D	2/5/13	2/6/13 13:07	CJM
Phenanthrene (low)	0.17	0.050	µg/L	1	B	SW-846 8270D	2/1/13	2/4/13 13:42	BGL
Phenanthrene (low)	ND	0.050	µg/L	1		SW-846 8270D	2/5/13	2/6/13 13:07	CJM
Pyrene (low)	ND	1.0	µg/L	1		SW-846 8270D	2/5/13	2/6/13 13:07	CJM
Pyrene (low)	ND	1.0	µg/L	1		SW-846 8270D	2/1/13	2/4/13 13:42	BGL
Surrogates	% Recovery	Recovery Limits	Flag						
Nitrobenzene-d5 (low)	85.2	30-130							
Nitrobenzene-d5 (low)	82.2	30-130							
2-Fluorobiphenyl (low)	72.8	30-130							
2-Fluorobiphenyl (low)	76.9	30-130							
Terphenyl-d14 (low)	86.6	30-130							
Terphenyl-d14 (low)	69.0	30-130							



Project Location: Mystic, CT

Sample Description:

Work Order: 13A0744

Date Received: 1/29/2013

Field Sample #: 1273930

Sampled: 1/28/2013 15:30

Sample ID: 13A0744-02

Sample Matrix: Ground Water

### Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	2/1/13	2/4/13 16:00	MJC
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	2/1/13	2/4/13 16:00	MJC
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	2/1/13	2/4/13 16:00	MJC
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	2/1/13	2/4/13 16:00	MJC
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	2/1/13	2/4/13 16:00	MJC
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	2/1/13	2/4/13 16:00	MJC
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	2/1/13	2/4/13 16:00	MJC
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	2/1/13	2/4/13 16:00	MJC
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	2/1/13	2/4/13 16:00	MJC
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	73.3	30-150							
Decachlorobiphenyl [2]	74.2	30-150							
Tetrachloro-m-xylene [1]	67.3	30-150							
Tetrachloro-m-xylene [2]	67.3	30-150							



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

Project Location: Mystic, CT

Sample Description:

Work Order: 13A0744

Date Received: 1/29/2013

Field Sample #: 1273930

Sampled: 1/28/2013 15:30

Sample ID: 13A0744-02

Sample Matrix: Ground Water

**Petroleum Hydrocarbons Analyses**

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	ND	0.075	mg/L	1		CTDEP ETPH	2/4/13	2/5/13 18:29	SCS
Surrogates	% Recovery		Recovery Limits		Flag				
o-Terphenyl	82.6		50-150			2/5/13 18:29			



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

Project Location: Mystic, CT

Sample Description:

Work Order: 13A0744

Date Received: 1/29/2013

Field Sample #: 1273930

Sampled: 1/28/2013 15:30

Sample ID: 13A0744-02

Sample Matrix: Ground Water

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	ND	0.010	mg/L	1		SW-846 9014	2/1/13	2/1/13 15:30	AED



Project Location: Mystic, CT

Sample Description:

Work Order: 13A0744

Date Received: 1/29/2013

Field Sample #: 1273930 UF

Sampled: 1/28/2013 15:30

Sample ID: 13A0744-03

Sample Matrix: Ground Water

**Metals Analyses (Total)**

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	2.0	µg/L	5		SW-846 6020A	1/31/13	2/1/13 13:56	AMP
Barium	ND	50	µg/L	5		SW-846 6020A	1/31/13	2/1/13 13:56	AMP
Cadmium	ND	2.5	µg/L	5		SW-846 6020A	1/31/13	2/1/13 13:56	AMP
Chromium	ND	5.0	µg/L	5		SW-846 6020A	1/31/13	2/1/13 13:56	AMP
Copper	ND	25	µg/L	5		SW-846 6020A	1/31/13	2/1/13 13:56	AMP
Lead	ND	5.0	µg/L	5		SW-846 6020A	1/31/13	2/1/13 13:56	AMP
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	1/31/13	2/1/13 12:02	SAJ
Nickel	ND	25	µg/L	5		SW-846 6020A	1/31/13	2/1/13 13:56	AMP
Selenium	ND	25	µg/L	5		SW-846 6020A	1/31/13	2/1/13 13:56	AMP
Silver	ND	2.5	µg/L	5		SW-846 6020A	1/31/13	2/1/13 13:56	AMP
Zinc	ND	50	µg/L	5		SW-846 6020A	1/31/13	2/1/13 13:56	AMP



Project Location: Mystic, CT

Sample Description:

Work Order: 13A0744

Date Received: 1/29/2013

Field Sample #: 1273853

Sampled: 1/28/2013 10:15

Sample ID: 13A0744-04

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.11	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 22:51	MFF
Acrylonitrile	ND	0.0064	mg/Kg dry	1	V-16	SW-846 8260C	1/31/13	1/31/13 22:51	MFF
Benzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 22:51	MFF
Bromobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 22:51	MFF
Bromodichloromethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 22:51	MFF
Bromoform	ND	0.0021	mg/Kg dry	1	MS-08	SW-846 8260C	1/31/13	1/31/13 22:51	MFF
Bromomethane	ND	0.011	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 22:51	MFF
2-Butanone (MEK)	ND	0.043	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 22:51	MFF
n-Butylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 22:51	MFF
sec-Butylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 22:51	MFF
tert-Butylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 22:51	MFF
Carbon Disulfide	ND	0.0064	mg/Kg dry	1	MS-08	SW-846 8260C	1/31/13	1/31/13 22:51	MFF
Carbon Tetrachloride	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 22:51	MFF
Chlorobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 22:51	MFF
Chlorodibromomethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 22:51	MFF
Chloroethane	ND	0.021	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 22:51	MFF
Chloroform	ND	0.0043	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 22:51	MFF
Chloromethane	ND	0.011	mg/Kg dry	1	MS-08	SW-846 8260C	1/31/13	1/31/13 22:51	MFF
2-Chlorotoluene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 22:51	MFF
4-Chlorotoluene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 22:51	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0021	mg/Kg dry	1	MS-08, V-16	SW-846 8260C	1/31/13	1/31/13 22:51	MFF
1,2-Dibromoethane (EDB)	ND	0.0011	mg/Kg dry	1	MS-08	SW-846 8260C	1/31/13	1/31/13 22:51	MFF
Dibromomethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 22:51	MFF
1,2-Dichlorobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 22:51	MFF
1,3-Dichlorobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 22:51	MFF
1,4-Dichlorobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 22:51	MFF
trans-1,4-Dichloro-2-butene	ND	0.0043	mg/Kg dry	1	MS-08	SW-846 8260C	1/31/13	1/31/13 22:51	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.021	mg/Kg dry	1	MS-08	SW-846 8260C	1/31/13	1/31/13 22:51	MFF
1,1-Dichloroethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 22:51	MFF
1,2-Dichloroethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 22:51	MFF
1,1-Dichloroethylene	ND	0.0043	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 22:51	MFF
cis-1,2-Dichloroethylene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 22:51	MFF
trans-1,2-Dichloroethylene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 22:51	MFF
1,2-Dichloropropane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 22:51	MFF
1,3-Dichloropropane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 22:51	MFF
2,2-Dichloropropane	ND	0.0021	mg/Kg dry	1	MS-08	SW-846 8260C	1/31/13	1/31/13 22:51	MFF
1,1-Dichloropropene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 22:51	MFF
cis-1,3-Dichloropropene	ND	0.0011	mg/Kg dry	1	MS-08	SW-846 8260C	1/31/13	1/31/13 22:51	MFF
trans-1,3-Dichloropropene	ND	0.0011	mg/Kg dry	1	MS-08	SW-846 8260C	1/31/13	1/31/13 22:51	MFF
Ethylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 22:51	MFF
Hexachlorobutadiene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 22:51	MFF
2-Hexanone (MBK)	ND	0.021	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 22:51	MFF
Isopropylbenzene (Cumene)	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 22:51	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 22:51	MFF



Project Location: Mystic, CT

Sample Description:

Work Order: 13A0744

Date Received: 1/29/2013

Field Sample #: 1273853

Sampled: 1/28/2013 10:15

Sample ID: 13A0744-04

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0043	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 22:51	MFF
Methylene Chloride	ND	0.021	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 22:51	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.021	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 22:51	MFF
Naphthalene	ND	0.0043	mg/Kg dry	1	MS-08	SW-846 8260C	1/31/13	1/31/13 22:51	MFF
n-Propylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 22:51	MFF
Styrene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 22:51	MFF
1,1,1,2-Tetrachloroethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 22:51	MFF
1,1,2,2-Tetrachloroethane	ND	0.0011	mg/Kg dry	1	MS-08	SW-846 8260C	1/31/13	1/31/13 22:51	MFF
Tetrachloroethylene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 22:51	MFF
Tetrahydrofuran	ND	0.011	mg/Kg dry	1	MS-08, V-16	SW-846 8260C	1/31/13	1/31/13 22:51	MFF
Toluene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 22:51	MFF
1,2,3-Trichlorobenzene	ND	0.0021	mg/Kg dry	1	MS-08	SW-846 8260C	1/31/13	1/31/13 22:51	MFF
1,2,4-Trichlorobenzene	ND	0.0021	mg/Kg dry	1	MS-08	SW-846 8260C	1/31/13	1/31/13 22:51	MFF
1,1,1-Trichloroethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 22:51	MFF
1,1,2-Trichloroethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 22:51	MFF
Trichloroethylene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 22:51	MFF
Trichlorofluoromethane (Freon 11)	ND	0.011	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 22:51	MFF
1,2,3-Trichloropropane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 22:51	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.011	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 22:51	MFF
1,2,4-Trimethylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 22:51	MFF
1,3,5-Trimethylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 22:51	MFF
Vinyl Chloride	ND	0.011	mg/Kg dry	1	MS-08	SW-846 8260C	1/31/13	1/31/13 22:51	MFF
m+p Xylene	ND	0.0043	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 22:51	MFF
o-Xylene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/31/13	1/31/13 22:51	MFF
Surrogates	% Recovery	Recovery Limits	Flag						
1,2-Dichloroethane-d4	115	70-130							
Toluene-d8	99.9	70-130							
4-Bromofluorobenzene	93.8	70-130							



Project Location: Mystic, CT

Sample Description:

Work Order: 13A0744

Date Received: 1/29/2013

Field Sample #: 1273853

Sampled: 1/28/2013 10:15

Sample ID: 13A0744-04

Sample Matrix: Soil

## Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 12:48	BGL
Acenaphthylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 12:48	BGL
Anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 12:48	BGL
Benzo(a)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 12:48	BGL
Benzo(a)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 12:48	BGL
Benzo(b)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 12:48	BGL
Benzo(g,h,i)perylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 12:48	BGL
Benzo(k)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 12:48	BGL
Chrysene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 12:48	BGL
Dibenz(a,h)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 12:48	BGL
Fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 12:48	BGL
Fluorene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 12:48	BGL
Indeno(1,2,3-cd)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 12:48	BGL
2-Methylnaphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 12:48	BGL
Naphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 12:48	BGL
Phenanthrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 12:48	BGL
Pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 12:48	BGL
Surrogates	% Recovery	Recovery Limits	Flag						
Nitrobenzene-d5	104	30-130							
2-Fluorobiphenyl	111	30-130							
Terphenyl-d14	129	30-130							



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

Project Location: Mystic, CT

Sample Description:

Work Order: 13A0744

Date Received: 1/29/2013

Field Sample #: 1273853

Sampled: 1/28/2013 10:15

Sample ID: 13A0744-04

Sample Matrix: Soil

**Petroleum Hydrocarbons Analyses**

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	ND	11	mg/Kg dry	1		CTDEP ETPH	2/2/13	2/6/13 0:57	SCS
Surrogates	% Recovery		Recovery Limits		Flag				
o-Terphenyl	79.9		50-150			2/6/13 0:57			



Project Location: Mystic, CT

Sample Description:

Work Order: 13A0744

Date Received: 1/29/2013

Field Sample #: 1273853

Sampled: 1/28/2013 10:15

Sample ID: 13A0744-04

Sample Matrix: Soil

# Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	2.5	mg/Kg dry	1		SW-846 6010C	1/31/13	2/1/13 23:26	OP
Barium	33	2.5	mg/Kg dry	1		SW-846 6010C	1/31/13	2/1/13 23:26	OP
Cadmium	ND	0.25	mg/Kg dry	1		SW-846 6010C	1/31/13	2/1/13 23:26	OP
Chromium	8.4	0.50	mg/Kg dry	1		SW-846 6010C	1/31/13	2/1/13 23:26	OP
Copper	5.5	0.50	mg/Kg dry	1		SW-846 6010C	1/31/13	2/1/13 23:26	OP
Lead	7.5	0.76	mg/Kg dry	1	M-10	SW-846 6010C	1/31/13	2/2/13 18:12	OP
Mercury	ND	0.026	mg/Kg dry	1		SW-846 7471B	2/1/13	2/4/13 11:57	SAJ
Nickel	4.5	0.50	mg/Kg dry	1		SW-846 6010C	1/31/13	2/2/13 18:12	OP
Selenium	ND	5.0	mg/Kg dry	1		SW-846 6010C	1/31/13	2/1/13 23:26	OP
Silver	ND	0.50	mg/Kg dry	1		SW-846 6010C	1/31/13	2/1/13 23:26	OP
Zinc	18	1.0	mg/Kg dry	1		SW-846 6010C	1/31/13	2/1/13 23:26	OP



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

Project Location: Mystic, CT

Sample Description:

Work Order: 13A0744

Date Received: 1/29/2013

Sampled: 1/28/2013 10:15

Field Sample #: 1273853

Sample ID: 13A0744-04

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	ND	0.44	mg/Kg dry	1		SW-846 9014	2/1/13	2/1/13 15:30	AED
% Solids	93.5		% Wt	1		SM 2540G	1/30/13	1/31/13 11:35	CWB



Project Location: Mystic, CT

Sample Description:

Work Order: 13A0744

Date Received: 1/29/2013

Field Sample #: 1273854

Sampled: 1/28/2013 11:13

Sample ID: 13A0744-05

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.093	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 0:12	MFF
Acrylonitrile	ND	0.0056	mg/Kg dry	1	V-16	SW-846 8260C	1/31/13	2/1/13 0:12	MFF
Benzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 0:12	MFF
Bromobenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 0:12	MFF
Bromodichloromethane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 0:12	MFF
Bromoform	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 0:12	MFF
Bromomethane	ND	0.0093	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 0:12	MFF
2-Butanone (MEK)	ND	0.037	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 0:12	MFF
n-Butylbenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 0:12	MFF
sec-Butylbenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 0:12	MFF
tert-Butylbenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 0:12	MFF
Carbon Disulfide	ND	0.0056	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 0:12	MFF
Carbon Tetrachloride	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 0:12	MFF
Chlorobenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 0:12	MFF
Chlorodibromomethane	ND	0.00093	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 0:12	MFF
Chloroethane	ND	0.019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 0:12	MFF
Chloroform	ND	0.0037	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 0:12	MFF
Chloromethane	ND	0.0093	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 0:12	MFF
2-Chlorotoluene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 0:12	MFF
4-Chlorotoluene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 0:12	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0019	mg/Kg dry	1	V-16	SW-846 8260C	1/31/13	2/1/13 0:12	MFF
1,2-Dibromoethane (EDB)	ND	0.00093	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 0:12	MFF
Dibromomethane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 0:12	MFF
1,2-Dichlorobenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 0:12	MFF
1,3-Dichlorobenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 0:12	MFF
1,4-Dichlorobenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 0:12	MFF
trans-1,4-Dichloro-2-butene	ND	0.0037	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 0:12	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 0:12	MFF
1,1-Dichloroethane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 0:12	MFF
1,2-Dichloroethane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 0:12	MFF
1,1-Dichloroethylene	ND	0.0037	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 0:12	MFF
cis-1,2-Dichloroethylene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 0:12	MFF
trans-1,2-Dichloroethylene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 0:12	MFF
1,2-Dichloropropane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 0:12	MFF
1,3-Dichloropropane	ND	0.00093	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 0:12	MFF
2,2-Dichloropropane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 0:12	MFF
1,1-Dichloropropene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 0:12	MFF
cis-1,3-Dichloropropene	ND	0.00093	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 0:12	MFF
trans-1,3-Dichloropropene	ND	0.00093	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 0:12	MFF
Ethylbenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 0:12	MFF
Hexachlorobutadiene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 0:12	MFF
2-Hexanone (MBK)	ND	0.019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 0:12	MFF
Isopropylbenzene (Cumene)	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 0:12	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 0:12	MFF



Project Location: Mystic, CT

Sample Description:

Work Order: 13A0744

Date Received: 1/29/2013

Field Sample #: 1273854

Sampled: 1/28/2013 11:13

Sample ID: 13A0744-05

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0037	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 0:12	MFF
Methylene Chloride	ND	0.019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 0:12	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 0:12	MFF
Naphthalene	ND	0.0037	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 0:12	MFF
n-Propylbenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 0:12	MFF
Styrene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 0:12	MFF
1,1,1,2-Tetrachloroethane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 0:12	MFF
1,1,2,2-Tetrachloroethane	ND	0.00093	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 0:12	MFF
Tetrachloroethylene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 0:12	MFF
Tetrahydrofuran	ND	0.0093	mg/Kg dry	1	V-16	SW-846 8260C	1/31/13	2/1/13 0:12	MFF
Toluene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 0:12	MFF
1,2,3-Trichlorobenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 0:12	MFF
1,2,4-Trichlorobenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 0:12	MFF
1,1,1-Trichloroethane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 0:12	MFF
1,1,2-Trichloroethane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 0:12	MFF
Trichloroethylene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 0:12	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0093	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 0:12	MFF
1,2,3-Trichloropropane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 0:12	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0093	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 0:12	MFF
1,2,4-Trimethylbenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 0:12	MFF
1,3,5-Trimethylbenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 0:12	MFF
Vinyl Chloride	ND	0.0093	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 0:12	MFF
m+p Xylene	ND	0.0037	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 0:12	MFF
o-Xylene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 0:12	MFF
Surrogates	% Recovery	Recovery Limits	Flag						
1,2-Dichloroethane-d4	112	70-130							
Toluene-d8	99.2	70-130							
4-Bromofluorobenzene	94.2	70-130							



Project Location: Mystic, CT

Sample Description:

Work Order: 13A0744

Date Received: 1/29/2013

Field Sample #: 1273854

Sampled: 1/28/2013 11:13

Sample ID: 13A0744-05

Sample Matrix: Soil

## Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 13:22	BGL
Acenaphthylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 13:22	BGL
Anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 13:22	BGL
Benzo(a)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 13:22	BGL
Benzo(a)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 13:22	BGL
Benzo(b)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 13:22	BGL
Benzo(g,h,i)perylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 13:22	BGL
Benzo(k)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 13:22	BGL
Chrysene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 13:22	BGL
Dibenz(a,h)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 13:22	BGL
Fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 13:22	BGL
Fluorene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 13:22	BGL
Indeno(1,2,3-cd)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 13:22	BGL
2-Methylnaphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 13:22	BGL
Naphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 13:22	BGL
Phenanthrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 13:22	BGL
Pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 13:22	BGL
Surrogates	% Recovery	Recovery Limits	Flag						
Nitrobenzene-d5	87.1	30-130							
2-Fluorobiphenyl	95.4	30-130							
Terphenyl-d14	113	30-130							



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

Project Location: Mystic, CT

Sample Description:

Work Order: 13A0744

Date Received: 1/29/2013

Sampled: 1/28/2013 11:13

Field Sample #: 1273854

Sample ID: 13A0744-05

Sample Matrix: Soil

# Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	30	11	mg/Kg dry	1	MS-23	CTDEP ETPH	2/2/13	2/6/13 0:40	SCS
Surrogates	% Recovery		Recovery Limits		Flag				
o-Terphenyl	72.8		50-150			2/6/13 0:40			



Project Location: Mystic, CT

Sample Description:

Work Order: 13A0744

Date Received: 1/29/2013

Field Sample #: 1273854

Sampled: 1/28/2013 11:13

Sample ID: 13A0744-05

Sample Matrix: Soil

### Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	2.6	mg/Kg dry	1		SW-846 6010C	1/31/13	2/2/13 0:07	OP
Barium	31	2.6	mg/Kg dry	1		SW-846 6010C	1/31/13	2/2/13 0:07	OP
Cadmium	ND	0.26	mg/Kg dry	1		SW-846 6010C	1/31/13	2/2/13 0:07	OP
Chromium	6.6	0.53	mg/Kg dry	1		SW-846 6010C	1/31/13	2/2/13 0:07	OP
Copper	5.6	0.53	mg/Kg dry	1		SW-846 6010C	1/31/13	2/2/13 0:07	OP
Lead	10	0.79	mg/Kg dry	1	M-10	SW-846 6010C	1/31/13	2/2/13 18:33	OP
Mercury	ND	0.026	mg/Kg dry	1		SW-846 7471B	2/1/13	2/4/13 11:59	SAJ
Nickel	3.5	0.53	mg/Kg dry	1		SW-846 6010C	1/31/13	2/2/13 18:33	OP
Selenium	ND	5.3	mg/Kg dry	1		SW-846 6010C	1/31/13	2/2/13 0:07	OP
Silver	0.56	0.53	mg/Kg dry	1		SW-846 6010C	1/31/13	2/2/13 0:07	OP
Zinc	26	1.1	mg/Kg dry	1		SW-846 6010C	1/31/13	2/2/13 0:07	OP



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

Project Location: Mystic, CT

Sample Description:

Work Order: 13A0744

Date Received: 1/29/2013

Sampled: 1/28/2013 11:13

Field Sample #: 1273854

Sample ID: 13A0744-05

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	ND	0.31	mg/Kg dry	1		SW-846 9014	2/1/13	2/1/13 15:30	AED
% Solids	93.8		% Wt	1		SM 2540G	1/30/13	1/31/13 11:35	CWB



Project Location: Mystic, CT

Sample Description:

Work Order: 13A0744

Date Received: 1/29/2013

Field Sample #: 1273855

Sampled: 1/28/2013 11:13

Sample ID: 13A0744-06

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.093	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 0:40	MFF
Acrylonitrile	ND	0.0056	mg/Kg dry	1	V-16	SW-846 8260C	1/31/13	2/1/13 0:40	MFF
Benzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 0:40	MFF
Bromobenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 0:40	MFF
Bromodichloromethane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 0:40	MFF
Bromoform	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 0:40	MFF
Bromomethane	ND	0.0093	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 0:40	MFF
2-Butanone (MEK)	ND	0.037	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 0:40	MFF
n-Butylbenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 0:40	MFF
sec-Butylbenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 0:40	MFF
tert-Butylbenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 0:40	MFF
Carbon Disulfide	ND	0.0056	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 0:40	MFF
Carbon Tetrachloride	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 0:40	MFF
Chlorobenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 0:40	MFF
Chlorodibromomethane	ND	0.00093	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 0:40	MFF
Chloroethane	ND	0.019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 0:40	MFF
Chloroform	ND	0.0037	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 0:40	MFF
Chloromethane	ND	0.0093	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 0:40	MFF
2-Chlorotoluene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 0:40	MFF
4-Chlorotoluene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 0:40	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0019	mg/Kg dry	1	V-16	SW-846 8260C	1/31/13	2/1/13 0:40	MFF
1,2-Dibromoethane (EDB)	ND	0.00093	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 0:40	MFF
Dibromomethane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 0:40	MFF
1,2-Dichlorobenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 0:40	MFF
1,3-Dichlorobenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 0:40	MFF
1,4-Dichlorobenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 0:40	MFF
trans-1,4-Dichloro-2-butene	ND	0.0037	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 0:40	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 0:40	MFF
1,1-Dichloroethane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 0:40	MFF
1,2-Dichloroethane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 0:40	MFF
1,1-Dichloroethylene	ND	0.0037	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 0:40	MFF
cis-1,2-Dichloroethylene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 0:40	MFF
trans-1,2-Dichloroethylene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 0:40	MFF
1,2-Dichloropropane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 0:40	MFF
1,3-Dichloropropane	ND	0.00093	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 0:40	MFF
2,2-Dichloropropane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 0:40	MFF
1,1-Dichloropropene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 0:40	MFF
cis-1,3-Dichloropropene	ND	0.00093	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 0:40	MFF
trans-1,3-Dichloropropene	ND	0.00093	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 0:40	MFF
Ethylbenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 0:40	MFF
Hexachlorobutadiene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 0:40	MFF
2-Hexanone (MBK)	ND	0.019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 0:40	MFF
Isopropylbenzene (Cumene)	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 0:40	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 0:40	MFF



Project Location: Mystic, CT

Sample Description:

Work Order: 13A0744

Date Received: 1/29/2013

Field Sample #: 1273855

Sampled: 1/28/2013 11:13

Sample ID: 13A0744-06

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0037	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 0:40	MFF
Methylene Chloride	ND	0.019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 0:40	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 0:40	MFF
Naphthalene	ND	0.0037	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 0:40	MFF
n-Propylbenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 0:40	MFF
Styrene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 0:40	MFF
1,1,1,2-Tetrachloroethane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 0:40	MFF
1,1,2,2-Tetrachloroethane	ND	0.00093	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 0:40	MFF
Tetrachloroethylene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 0:40	MFF
Tetrahydrofuran	ND	0.0093	mg/Kg dry	1	V-16	SW-846 8260C	1/31/13	2/1/13 0:40	MFF
Toluene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 0:40	MFF
1,2,3-Trichlorobenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 0:40	MFF
1,2,4-Trichlorobenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 0:40	MFF
1,1,1-Trichloroethane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 0:40	MFF
1,1,2-Trichloroethane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 0:40	MFF
Trichloroethylene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 0:40	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0093	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 0:40	MFF
1,2,3-Trichloropropane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 0:40	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0093	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 0:40	MFF
1,2,4-Trimethylbenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 0:40	MFF
1,3,5-Trimethylbenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 0:40	MFF
Vinyl Chloride	ND	0.0093	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 0:40	MFF
m+p Xylene	ND	0.0037	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 0:40	MFF
o-Xylene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 0:40	MFF
Surrogates	% Recovery	Recovery Limits	Flag						
1,2-Dichloroethane-d4	115	70-130							
Toluene-d8	99.3	70-130							
4-Bromofluorobenzene	93.6	70-130							



Project Location: Mystic, CT

Sample Description:

Work Order: 13A0744

Date Received: 1/29/2013

Field Sample #: 1273855

Sampled: 1/28/2013 11:13

Sample ID: 13A0744-06

Sample Matrix: Soil

## Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 13:49	CMR
Acenaphthylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 13:49	CMR
Anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 13:49	CMR
Benzo(a)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 13:49	CMR
Benzo(a)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 13:49	CMR
Benzo(b)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 13:49	CMR
Benzo(g,h,i)perylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 13:49	CMR
Benzo(k)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 13:49	CMR
Chrysene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 13:49	CMR
Dibenz(a,h)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 13:49	CMR
Fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 13:49	CMR
Fluorene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 13:49	CMR
Indeno(1,2,3-cd)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 13:49	CMR
2-Methylnaphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 13:49	CMR
Naphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 13:49	CMR
Phenanthrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 13:49	CMR
Pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 13:49	CMR
Surrogates	% Recovery	Recovery Limits	Flag						
Nitrobenzene-d5	95.4	30-130						2/4/13 13:49	
2-Fluorobiphenyl	96.9	30-130						2/4/13 13:49	
Terphenyl-d14	75.9	30-130						2/4/13 13:49	



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Project Location: Mystic, CT

Sample Description:

Work Order: 13A0744

Date Received: 1/29/2013

Field Sample #: 1273855

Sampled: 1/28/2013 11:13

Sample ID: 13A0744-06

Sample Matrix: Soil

**Petroleum Hydrocarbons Analyses**

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	140	110	mg/Kg dry	10		CTDEP ETPH	2/2/13	2/6/13 1:15	SCS
Surrogates	% Recovery		Recovery Limits		Flag				
o-Terphenyl	77.0		50-150			2/6/13 1:15			



Project Location: Mystic, CT

Sample Description:

Work Order: 13A0744

Date Received: 1/29/2013

Field Sample #: 1273855

Sampled: 1/28/2013 11:13

Sample ID: 13A0744-06

Sample Matrix: Soil

# Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	2.6	mg/Kg dry	1		SW-846 6010C	1/31/13	2/2/13 0:12	OP
Barium	50	2.6	mg/Kg dry	1		SW-846 6010C	1/31/13	2/2/13 0:12	OP
Cadmium	ND	0.26	mg/Kg dry	1		SW-846 6010C	1/31/13	2/2/13 0:12	OP
Chromium	10	0.52	mg/Kg dry	1		SW-846 6010C	1/31/13	2/2/13 0:12	OP
Copper	5.8	0.52	mg/Kg dry	1		SW-846 6010C	1/31/13	2/2/13 0:12	OP
Lead	7.9	0.78	mg/Kg dry	1	M-10	SW-846 6010C	1/31/13	2/2/13 18:38	OP
Mercury	ND	0.026	mg/Kg dry	1		SW-846 7471B	2/1/13	2/4/13 12:05	SAJ
Nickel	6.9	0.52	mg/Kg dry	1		SW-846 6010C	1/31/13	2/2/13 18:38	OP
Selenium	ND	5.2	mg/Kg dry	1		SW-846 6010C	1/31/13	2/2/13 0:12	OP
Silver	ND	0.52	mg/Kg dry	1		SW-846 6010C	1/31/13	2/2/13 0:12	OP
Zinc	26	1.0	mg/Kg dry	1		SW-846 6010C	1/31/13	2/2/13 0:12	OP



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Project Location: Mystic, CT

Sample Description:

Work Order: 13A0744

Date Received: 1/29/2013

Sampled: 1/28/2013 11:13

Field Sample #: 1273855

Sample ID: 13A0744-06

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	1.1	0.33	mg/Kg dry	1		SW-846 9014	2/1/13	2/1/13 15:30	AED
% Solids	93.8		% Wt	1		SM 2540G	1/30/13	1/31/13 11:35	CWB



Project Location: Mystic, CT

Sample Description:

Work Order: 13A0744

Date Received: 1/29/2013

Field Sample #: 1273856

Sampled: 1/28/2013 12:00

Sample ID: 13A0744-07

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.093	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 1:07	MFF
Acrylonitrile	ND	0.0056	mg/Kg dry	1	V-16	SW-846 8260C	1/31/13	2/1/13 1:07	MFF
Benzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 1:07	MFF
Bromobenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 1:07	MFF
Bromodichloromethane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 1:07	MFF
Bromoform	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 1:07	MFF
Bromomethane	ND	0.0093	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 1:07	MFF
2-Butanone (MEK)	ND	0.037	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 1:07	MFF
n-Butylbenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 1:07	MFF
sec-Butylbenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 1:07	MFF
tert-Butylbenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 1:07	MFF
Carbon Disulfide	ND	0.0056	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 1:07	MFF
Carbon Tetrachloride	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 1:07	MFF
Chlorobenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 1:07	MFF
Chlorodibromomethane	ND	0.00093	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 1:07	MFF
Chloroethane	ND	0.019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 1:07	MFF
Chloroform	ND	0.0037	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 1:07	MFF
Chloromethane	ND	0.0093	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 1:07	MFF
2-Chlorotoluene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 1:07	MFF
4-Chlorotoluene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 1:07	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0019	mg/Kg dry	1	V-16	SW-846 8260C	1/31/13	2/1/13 1:07	MFF
1,2-Dibromoethane (EDB)	ND	0.00093	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 1:07	MFF
Dibromomethane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 1:07	MFF
1,2-Dichlorobenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 1:07	MFF
1,3-Dichlorobenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 1:07	MFF
1,4-Dichlorobenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 1:07	MFF
trans-1,4-Dichloro-2-butene	ND	0.0037	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 1:07	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 1:07	MFF
1,1-Dichloroethane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 1:07	MFF
1,2-Dichloroethane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 1:07	MFF
1,1-Dichloroethylene	ND	0.0037	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 1:07	MFF
cis-1,2-Dichloroethylene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 1:07	MFF
trans-1,2-Dichloroethylene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 1:07	MFF
1,2-Dichloropropane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 1:07	MFF
1,3-Dichloropropane	ND	0.00093	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 1:07	MFF
2,2-Dichloropropane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 1:07	MFF
1,1-Dichloropropene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 1:07	MFF
cis-1,3-Dichloropropene	ND	0.00093	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 1:07	MFF
trans-1,3-Dichloropropene	ND	0.00093	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 1:07	MFF
Ethylbenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 1:07	MFF
Hexachlorobutadiene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 1:07	MFF
2-Hexanone (MBK)	ND	0.019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 1:07	MFF
Isopropylbenzene (Cumene)	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 1:07	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 1:07	MFF



Project Location: Mystic, CT

Sample Description:

Work Order: 13A0744

Date Received: 1/29/2013

Field Sample #: 1273856

Sampled: 1/28/2013 12:00

Sample ID: 13A0744-07

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0037	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 1:07	MFF
Methylene Chloride	ND	0.019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 1:07	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 1:07	MFF
Naphthalene	ND	0.0037	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 1:07	MFF
n-Propylbenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 1:07	MFF
Styrene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 1:07	MFF
1,1,1,2-Tetrachloroethane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 1:07	MFF
1,1,2,2-Tetrachloroethane	ND	0.00093	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 1:07	MFF
Tetrachloroethylene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 1:07	MFF
Tetrahydrofuran	ND	0.0093	mg/Kg dry	1	V-16	SW-846 8260C	1/31/13	2/1/13 1:07	MFF
Toluene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 1:07	MFF
1,2,3-Trichlorobenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 1:07	MFF
1,2,4-Trichlorobenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 1:07	MFF
1,1,1-Trichloroethane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 1:07	MFF
1,1,2-Trichloroethane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 1:07	MFF
Trichloroethylene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 1:07	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0093	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 1:07	MFF
1,2,3-Trichloropropane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 1:07	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0093	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 1:07	MFF
1,2,4-Trimethylbenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 1:07	MFF
1,3,5-Trimethylbenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 1:07	MFF
Vinyl Chloride	ND	0.0093	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 1:07	MFF
m+p Xylene	ND	0.0037	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 1:07	MFF
o-Xylene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 1:07	MFF
Surrogates	% Recovery	Recovery Limits	Flag						
1,2-Dichloroethane-d4	116	70-130							
Toluene-d8	99.3	70-130							
4-Bromofluorobenzene	95.7	70-130							



Project Location: Mystic, CT

Sample Description:

Work Order: 13A0744

Date Received: 1/29/2013

Field Sample #: 1273856

Sampled: 1/28/2013 12:00

Sample ID: 13A0744-07

Sample Matrix: Soil

## Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 13:55	BGL
Acenaphthylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 13:55	BGL
Anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 13:55	BGL
Benzo(a)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 13:55	BGL
Benzo(a)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 13:55	BGL
Benzo(b)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 13:55	BGL
Benzo(g,h,i)perylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 13:55	BGL
Benzo(k)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 13:55	BGL
Chrysene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 13:55	BGL
Dibenz(a,h)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 13:55	BGL
Fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 13:55	BGL
Fluorene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 13:55	BGL
Indeno(1,2,3-cd)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 13:55	BGL
2-Methylnaphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 13:55	BGL
Naphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 13:55	BGL
Phenanthrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 13:55	BGL
Pyrene	0.18	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 13:55	BGL
Surrogates	% Recovery		Recovery Limits		Flag				
Nitrobenzene-d5	98.4		30-130				2/4/13 13:55		
2-Fluorobiphenyl	109		30-130				2/4/13 13:55		
Terphenyl-d14	132 *		30-130		S-07		2/4/13 13:55		



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

Project Location: Mystic, CT

Sample Description:

Work Order: 13A0744

Date Received: 1/29/2013

Field Sample #: 1273856

Sampled: 1/28/2013 12:00

Sample ID: 13A0744-07

Sample Matrix: Soil

#### Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	12	11	mg/Kg dry	1		CTDEP ETPH	2/2/13	2/6/13 1:33	SCS
Surrogates	% Recovery		Recovery Limits		Flag				
o-Terphenyl	69.3		50-150			2/6/13 1:33			



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

Project Location: Mystic, CT

Sample Description:

Work Order: 13A0744

Date Received: 1/29/2013

Field Sample #: 1273856

Sampled: 1/28/2013 12:00

Sample ID: 13A0744-07

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.7		% Wt	1		SM 2540G	1/30/13	1/31/13 11:35	CWB



Project Location: Mystic, CT

Sample Description:

Work Order: 13A0744

Date Received: 1/29/2013

Field Sample #: 1273857

Sampled: 1/28/2013 13:20

Sample ID: 13A0744-08

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.095	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 1:34	MFF
Acrylonitrile	ND	0.0057	mg/Kg dry	1	V-16	SW-846 8260C	1/31/13	2/1/13 1:34	MFF
Benzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 1:34	MFF
Bromobenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 1:34	MFF
Bromodichloromethane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 1:34	MFF
Bromoform	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 1:34	MFF
Bromomethane	ND	0.0095	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 1:34	MFF
2-Butanone (MEK)	ND	0.038	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 1:34	MFF
n-Butylbenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 1:34	MFF
sec-Butylbenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 1:34	MFF
tert-Butylbenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 1:34	MFF
Carbon Disulfide	ND	0.0057	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 1:34	MFF
Carbon Tetrachloride	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 1:34	MFF
Chlorobenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 1:34	MFF
Chlorodibromomethane	ND	0.00095	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 1:34	MFF
Chloroethane	ND	0.019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 1:34	MFF
Chloroform	ND	0.0038	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 1:34	MFF
Chloromethane	ND	0.0095	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 1:34	MFF
2-Chlorotoluene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 1:34	MFF
4-Chlorotoluene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 1:34	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0019	mg/Kg dry	1	V-16	SW-846 8260C	1/31/13	2/1/13 1:34	MFF
1,2-Dibromoethane (EDB)	ND	0.00095	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 1:34	MFF
Dibromomethane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 1:34	MFF
1,2-Dichlorobenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 1:34	MFF
1,3-Dichlorobenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 1:34	MFF
1,4-Dichlorobenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 1:34	MFF
trans-1,4-Dichloro-2-butene	ND	0.0038	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 1:34	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 1:34	MFF
1,1-Dichloroethane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 1:34	MFF
1,2-Dichloroethane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 1:34	MFF
1,1-Dichloroethylene	ND	0.0038	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 1:34	MFF
cis-1,2-Dichloroethylene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 1:34	MFF
trans-1,2-Dichloroethylene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 1:34	MFF
1,2-Dichloropropane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 1:34	MFF
1,3-Dichloropropane	ND	0.00095	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 1:34	MFF
2,2-Dichloropropane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 1:34	MFF
1,1-Dichloropropene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 1:34	MFF
cis-1,3-Dichloropropene	ND	0.00095	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 1:34	MFF
trans-1,3-Dichloropropene	ND	0.00095	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 1:34	MFF
Ethylbenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 1:34	MFF
Hexachlorobutadiene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 1:34	MFF
2-Hexanone (MBK)	ND	0.019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 1:34	MFF
Isopropylbenzene (Cumene)	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 1:34	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 1:34	MFF



Project Location: Mystic, CT

Sample Description:

Work Order: 13A0744

Date Received: 1/29/2013

Field Sample #: 1273857

Sampled: 1/28/2013 13:20

Sample ID: 13A0744-08

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0038	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 1:34	MFF
Methylene Chloride	ND	0.019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 1:34	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 1:34	MFF
Naphthalene	ND	0.0038	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 1:34	MFF
n-Propylbenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 1:34	MFF
Styrene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 1:34	MFF
1,1,1,2-Tetrachloroethane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 1:34	MFF
1,1,2,2-Tetrachloroethane	ND	0.00095	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 1:34	MFF
Tetrachloroethylene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 1:34	MFF
Tetrahydrofuran	ND	0.0095	mg/Kg dry	1	V-16	SW-846 8260C	1/31/13	2/1/13 1:34	MFF
Toluene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 1:34	MFF
1,2,3-Trichlorobenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 1:34	MFF
1,2,4-Trichlorobenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 1:34	MFF
1,1,1-Trichloroethane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 1:34	MFF
1,1,2-Trichloroethane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 1:34	MFF
Trichloroethylene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 1:34	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0095	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 1:34	MFF
1,2,3-Trichloropropane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 1:34	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0095	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 1:34	MFF
1,2,4-Trimethylbenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 1:34	MFF
1,3,5-Trimethylbenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 1:34	MFF
Vinyl Chloride	ND	0.0095	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 1:34	MFF
m+p Xylene	ND	0.0038	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 1:34	MFF
o-Xylene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 1:34	MFF
Surrogates	% Recovery	Recovery Limits	Flag						
1,2-Dichloroethane-d4	114	70-130							
Toluene-d8	99.0	70-130							
4-Bromofluorobenzene	94.2	70-130							



Project Location: Mystic, CT

Sample Description:

Work Order: 13A0744

Date Received: 1/29/2013

Field Sample #: 1273857

Sampled: 1/28/2013 13:20

Sample ID: 13A0744-08

Sample Matrix: Soil

## Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 14:29	BGL
Acenaphthylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 14:29	BGL
Anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 14:29	BGL
Benzo(a)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 14:29	BGL
Benzo(a)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 14:29	BGL
Benzo(b)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 14:29	BGL
Benzo(g,h,i)perylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 14:29	BGL
Benzo(k)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 14:29	BGL
Chrysene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 14:29	BGL
Dibenz(a,h)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 14:29	BGL
Fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 14:29	BGL
Fluorene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 14:29	BGL
Indeno(1,2,3-cd)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 14:29	BGL
2-Methylnaphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 14:29	BGL
Naphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 14:29	BGL
Phenanthrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 14:29	BGL
Pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 14:29	BGL
Surrogates	% Recovery		Recovery Limits		Flag				
Nitrobenzene-d5	91.8		30-130				2/4/13 14:29		
2-Fluorobiphenyl	98.2		30-130				2/4/13 14:29		
Terphenyl-d14	119		30-130				2/4/13 14:29		



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

Project Location: Mystic, CT

Sample Description:

Work Order: 13A0744

Date Received: 1/29/2013

Field Sample #: 1273857

Sampled: 1/28/2013 13:20

Sample ID: 13A0744-08

Sample Matrix: Soil

#### Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	ND	11	mg/Kg dry	1		CTDEP ETPH	2/2/13	2/6/13 1:50	SCS
Surrogates	% Recovery		Recovery Limits		Flag				
o-Terphenyl	67.6		50-150			2/6/13 1:50			



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

Project Location: Mystic, CT

Sample Description:

Work Order: 13A0744

Date Received: 1/29/2013

Sampled: 1/28/2013 13:20

Field Sample #: 1273857

Sample ID: 13A0744-08

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	92.1		% Wt	1		SM 2540G	1/30/13	1/31/13 11:35	CWB



Project Location: Mystic, CT

Sample Description:

Work Order: 13A0744

Date Received: 1/29/2013

Field Sample #: 1273858

Sampled: 1/28/2013 14:24

Sample ID: 13A0744-09

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.11	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:01	MFF
Acrylonitrile	ND	0.0065	mg/Kg dry	1	V-16	SW-846 8260C	1/31/13	2/1/13 2:01	MFF
Benzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:01	MFF
Bromobenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:01	MFF
Bromodichloromethane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:01	MFF
Bromoform	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:01	MFF
Bromomethane	ND	0.011	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:01	MFF
2-Butanone (MEK)	ND	0.043	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:01	MFF
n-Butylbenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:01	MFF
sec-Butylbenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:01	MFF
tert-Butylbenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:01	MFF
Carbon Disulfide	ND	0.0065	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:01	MFF
Carbon Tetrachloride	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:01	MFF
Chlorobenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:01	MFF
Chlorodibromomethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:01	MFF
Chloroethane	ND	0.022	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:01	MFF
Chloroform	ND	0.0043	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:01	MFF
Chloromethane	ND	0.011	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:01	MFF
2-Chlorotoluene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:01	MFF
4-Chlorotoluene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:01	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0022	mg/Kg dry	1	V-16	SW-846 8260C	1/31/13	2/1/13 2:01	MFF
1,2-Dibromoethane (EDB)	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:01	MFF
Dibromomethane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:01	MFF
1,2-Dichlorobenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:01	MFF
1,3-Dichlorobenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:01	MFF
1,4-Dichlorobenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:01	MFF
trans-1,4-Dichloro-2-butene	ND	0.0043	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:01	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.022	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:01	MFF
1,1-Dichloroethane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:01	MFF
1,2-Dichloroethane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:01	MFF
1,1-Dichloroethylene	ND	0.0043	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:01	MFF
cis-1,2-Dichloroethylene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:01	MFF
trans-1,2-Dichloroethylene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:01	MFF
1,2-Dichloropropane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:01	MFF
1,3-Dichloropropane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:01	MFF
2,2-Dichloropropane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:01	MFF
1,1-Dichloropropene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:01	MFF
cis-1,3-Dichloropropene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:01	MFF
trans-1,3-Dichloropropene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:01	MFF
Ethylbenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:01	MFF
Hexachlorobutadiene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:01	MFF
2-Hexanone (MBK)	ND	0.022	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:01	MFF
Isopropylbenzene (Cumene)	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:01	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:01	MFF



Project Location: Mystic, CT

Sample Description:

Work Order: 13A0744

Date Received: 1/29/2013

Field Sample #: 1273858

Sampled: 1/28/2013 14:24

Sample ID: 13A0744-09

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0043	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:01	MFF
Methylene Chloride	ND	0.022	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:01	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.022	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:01	MFF
Naphthalene	ND	0.0043	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:01	MFF
n-Propylbenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:01	MFF
Styrene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:01	MFF
1,1,1,2-Tetrachloroethane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:01	MFF
1,1,2,2-Tetrachloroethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:01	MFF
Tetrachloroethylene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:01	MFF
Tetrahydrofuran	ND	0.011	mg/Kg dry	1	V-16	SW-846 8260C	1/31/13	2/1/13 2:01	MFF
Toluene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:01	MFF
1,2,3-Trichlorobenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:01	MFF
1,2,4-Trichlorobenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:01	MFF
1,1,1-Trichloroethane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:01	MFF
1,1,2-Trichloroethane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:01	MFF
Trichloroethylene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:01	MFF
Trichlorofluoromethane (Freon 11)	ND	0.011	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:01	MFF
1,2,3-Trichloropropane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:01	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.011	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:01	MFF
1,2,4-Trimethylbenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:01	MFF
1,3,5-Trimethylbenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:01	MFF
Vinyl Chloride	ND	0.011	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:01	MFF
m+p Xylene	ND	0.0043	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:01	MFF
o-Xylene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:01	MFF
Surrogates	% Recovery	Recovery Limits	Flag						
1,2-Dichloroethane-d4	114	70-130							
Toluene-d8	101	70-130							
4-Bromofluorobenzene	92.2	70-130							



Project Location: Mystic, CT

Sample Description:

Work Order: 13A0744

Date Received: 1/29/2013

Field Sample #: 1273858

Sampled: 1/28/2013 14:24

Sample ID: 13A0744-09

Sample Matrix: Soil

## Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 15:05	BGL
Acenaphthylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 15:05	BGL
Anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 15:05	BGL
Benzo(a)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 15:05	BGL
Benzo(a)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 15:05	BGL
Benzo(b)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 15:05	BGL
Benzo(g,h,i)perylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 15:05	BGL
Benzo(k)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 15:05	BGL
Chrysene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 15:05	BGL
Dibenz(a,h)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 15:05	BGL
Fluoranthene	0.19	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 15:05	BGL
Fluorene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 15:05	BGL
Indeno(1,2,3-cd)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 15:05	BGL
2-Methylnaphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 15:05	BGL
Naphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 15:05	BGL
Phenanthrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 15:05	BGL
Pyrene	0.21	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 15:05	BGL
Surrogates	% Recovery		Recovery Limits		Flag				
Nitrobenzene-d5	74.6		30-130				2/4/13 15:05		
2-Fluorobiphenyl	86.9		30-130				2/4/13 15:05		
Terphenyl-d14	98.0		30-130				2/4/13 15:05		



Project Location: Mystic, CT

Sample Description:

Work Order: 13A0744

Date Received: 1/29/2013

Field Sample #: 1273858

Sampled: 1/28/2013 14:24

Sample ID: 13A0744-09

Sample Matrix: Soil

### Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	2/1/13	2/4/13 19:11	MJC
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	2/1/13	2/4/13 19:11	MJC
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	2/1/13	2/4/13 19:11	MJC
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	2/1/13	2/4/13 19:11	MJC
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	2/1/13	2/4/13 19:11	MJC
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	2/1/13	2/4/13 19:11	MJC
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	2/1/13	2/4/13 19:11	MJC
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	2/1/13	2/4/13 19:11	MJC
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	2/1/13	2/4/13 19:11	MJC
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	67.6	30-150							
Decachlorobiphenyl [2]	70.1	30-150							
Tetrachloro-m-xylene [1]	67.1	30-150							
Tetrachloro-m-xylene [2]	68.4	30-150							



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

Project Location: Mystic, CT

Sample Description:

Work Order: 13A0744

Date Received: 1/29/2013

Field Sample #: 1273858

Sampled: 1/28/2013 14:24

Sample ID: 13A0744-09

Sample Matrix: Soil

#### Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	23	11	mg/Kg dry	1		CTDEP ETPH	2/2/13	2/6/13 2:08	SCS
Surrogates	% Recovery		Recovery Limits		Flag				
o-Terphenyl	75.7		50-150			2/6/13 2:08			



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

Project Location: Mystic, CT

Sample Description:

Work Order: 13A0744

Date Received: 1/29/2013

Sampled: 1/28/2013 14:24

Field Sample #: 1273858

Sample ID: 13A0744-09

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.3		% Wt	1		SM 2540G	1/30/13	1/31/13 11:35	CWB



Project Location: Mystic, CT

Sample Description:

Work Order: 13A0744

Date Received: 1/29/2013

Field Sample #: 1273859

Sampled: 1/28/2013 15:20

Sample ID: 13A0744-10

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.11	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:29	MFF
Acrylonitrile	ND	0.0068	mg/Kg dry	1	V-16	SW-846 8260C	1/31/13	2/1/13 2:29	MFF
Benzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:29	MFF
Bromobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:29	MFF
Bromodichloromethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:29	MFF
Bromoform	ND	0.0023	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:29	MFF
Bromomethane	ND	0.011	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:29	MFF
2-Butanone (MEK)	ND	0.045	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:29	MFF
n-Butylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:29	MFF
sec-Butylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:29	MFF
tert-Butylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:29	MFF
Carbon Disulfide	ND	0.0068	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:29	MFF
Carbon Tetrachloride	ND	0.0023	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:29	MFF
Chlorobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:29	MFF
Chlorodibromomethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:29	MFF
Chloroethane	ND	0.023	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:29	MFF
Chloroform	ND	0.0045	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:29	MFF
Chloromethane	ND	0.011	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:29	MFF
2-Chlorotoluene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:29	MFF
4-Chlorotoluene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:29	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0023	mg/Kg dry	1	V-16	SW-846 8260C	1/31/13	2/1/13 2:29	MFF
1,2-Dibromoethane (EDB)	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:29	MFF
Dibromomethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:29	MFF
1,2-Dichlorobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:29	MFF
1,3-Dichlorobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:29	MFF
1,4-Dichlorobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:29	MFF
trans-1,4-Dichloro-2-butene	ND	0.0045	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:29	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.023	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:29	MFF
1,1-Dichloroethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:29	MFF
1,2-Dichloroethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:29	MFF
1,1-Dichloroethylene	ND	0.0045	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:29	MFF
cis-1,2-Dichloroethylene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:29	MFF
trans-1,2-Dichloroethylene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:29	MFF
1,2-Dichloropropane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:29	MFF
1,3-Dichloropropane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:29	MFF
2,2-Dichloropropane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:29	MFF
1,1-Dichloropropene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:29	MFF
cis-1,3-Dichloropropene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:29	MFF
trans-1,3-Dichloropropene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:29	MFF
Ethylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:29	MFF
Hexachlorobutadiene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:29	MFF
2-Hexanone (MBK)	ND	0.023	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:29	MFF
Isopropylbenzene (Cumene)	ND	0.0023	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:29	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0023	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:29	MFF



Project Location: Mystic, CT

Sample Description:

Work Order: 13A0744

Date Received: 1/29/2013

Field Sample #: 1273859

Sampled: 1/28/2013 15:20

Sample ID: 13A0744-10

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0045	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:29	MFF
Methylene Chloride	ND	0.023	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:29	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.023	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:29	MFF
Naphthalene	ND	0.0045	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:29	MFF
n-Propylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:29	MFF
Styrene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:29	MFF
1,1,1,2-Tetrachloroethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:29	MFF
1,1,2,2-Tetrachloroethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:29	MFF
Tetrachloroethylene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:29	MFF
Tetrahydrofuran	ND	0.011	mg/Kg dry	1	V-16	SW-846 8260C	1/31/13	2/1/13 2:29	MFF
Toluene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:29	MFF
1,2,3-Trichlorobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:29	MFF
1,2,4-Trichlorobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:29	MFF
1,1,1-Trichloroethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:29	MFF
1,1,2-Trichloroethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:29	MFF
Trichloroethylene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:29	MFF
Trichlorofluoromethane (Freon 11)	ND	0.011	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:29	MFF
1,2,3-Trichloropropane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:29	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.011	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:29	MFF
1,2,4-Trimethylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:29	MFF
1,3,5-Trimethylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:29	MFF
Vinyl Chloride	ND	0.011	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:29	MFF
m+p Xylene	ND	0.0045	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:29	MFF
o-Xylene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:29	MFF
Surrogates	% Recovery	Recovery Limits	Flag						
1,2-Dichloroethane-d4	118	70-130						2/1/13 2:29	
Toluene-d8	98.8	70-130						2/1/13 2:29	
4-Bromofluorobenzene	93.2	70-130						2/1/13 2:29	



Project Location: Mystic, CT

Sample Description:

Work Order: 13A0744

Date Received: 1/29/2013

Field Sample #: 1273859

Sampled: 1/28/2013 15:20

Sample ID: 13A0744-10

Sample Matrix: Soil

## Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 15:37	BGL
Acenaphthylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 15:37	BGL
Anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 15:37	BGL
Benzo(a)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 15:37	BGL
Benzo(a)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 15:37	BGL
Benzo(b)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 15:37	BGL
Benzo(g,h,i)perylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 15:37	BGL
Benzo(k)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 15:37	BGL
Chrysene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 15:37	BGL
Dibenz(a,h)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 15:37	BGL
Fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 15:37	BGL
Fluorene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 15:37	BGL
Indeno(1,2,3-cd)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 15:37	BGL
2-Methylnaphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 15:37	BGL
Naphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 15:37	BGL
Phenanthrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 15:37	BGL
Pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 15:37	BGL
Surrogates	% Recovery	Recovery Limits	Flag						
Nitrobenzene-d5	93.9	30-130							
2-Fluorobiphenyl	101	30-130							
Terphenyl-d14	120	30-130							



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

Project Location: Mystic, CT

Sample Description:

Work Order: 13A0744

Date Received: 1/29/2013

Field Sample #: 1273859

Sampled: 1/28/2013 15:20

Sample ID: 13A0744-10

Sample Matrix: Soil

#### Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	15	11	mg/Kg dry	1		CTDEP ETPH	2/2/13	2/6/13 2:26	SCS
Surrogates	% Recovery		Recovery Limits		Flag				
o-Terphenyl	72.9		50-150			2/6/13 2:26			



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

Project Location: Mystic, CT

Sample Description:

Work Order: 13A0744

Date Received: 1/29/2013

Sampled: 1/28/2013 15:20

Field Sample #: 1273859

Sample ID: 13A0744-10

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	94.6		% Wt	1		SM 2540G	1/30/13	1/31/13 11:35	CWB



Project Location: Mystic, CT

Sample Description:

Work Order: 13A0744

Date Received: 1/29/2013

Field Sample #: 1273830

Sampled: 1/28/2013 10:23

Sample ID: 13A0744-12

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.12	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:56	MFF
Acrylonitrile	ND	0.0073	mg/Kg dry	1	V-16	SW-846 8260C	1/31/13	2/1/13 2:56	MFF
Benzene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:56	MFF
Bromobenzene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:56	MFF
Bromodichloromethane	ND	0.0024	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:56	MFF
Bromoform	ND	0.0024	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:56	MFF
Bromomethane	ND	0.012	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:56	MFF
2-Butanone (MEK)	ND	0.049	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:56	MFF
n-Butylbenzene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:56	MFF
sec-Butylbenzene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:56	MFF
tert-Butylbenzene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:56	MFF
Carbon Disulfide	ND	0.0073	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:56	MFF
Carbon Tetrachloride	ND	0.0024	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:56	MFF
Chlorobenzene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:56	MFF
Chlorodibromomethane	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:56	MFF
Chloroethane	ND	0.024	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:56	MFF
Chloroform	ND	0.0049	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:56	MFF
Chloromethane	ND	0.012	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:56	MFF
2-Chlorotoluene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:56	MFF
4-Chlorotoluene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:56	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0024	mg/Kg dry	1	V-16	SW-846 8260C	1/31/13	2/1/13 2:56	MFF
1,2-Dibromoethane (EDB)	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:56	MFF
Dibromomethane	ND	0.0024	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:56	MFF
1,2-Dichlorobenzene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:56	MFF
1,3-Dichlorobenzene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:56	MFF
1,4-Dichlorobenzene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:56	MFF
trans-1,4-Dichloro-2-butene	ND	0.0049	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:56	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.024	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:56	MFF
1,1-Dichloroethane	ND	0.0024	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:56	MFF
1,2-Dichloroethane	ND	0.0024	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:56	MFF
1,1-Dichloroethylene	ND	0.0049	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:56	MFF
cis-1,2-Dichloroethylene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:56	MFF
trans-1,2-Dichloroethylene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:56	MFF
1,2-Dichloropropane	ND	0.0024	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:56	MFF
1,3-Dichloropropane	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:56	MFF
2,2-Dichloropropane	ND	0.0024	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:56	MFF
1,1-Dichloropropene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:56	MFF
cis-1,3-Dichloropropene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:56	MFF
trans-1,3-Dichloropropene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:56	MFF
Ethylbenzene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:56	MFF
Hexachlorobutadiene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:56	MFF
2-Hexanone (MBK)	ND	0.024	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:56	MFF
Isopropylbenzene (Cumene)	ND	0.0024	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:56	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0024	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:56	MFF



Project Location: Mystic, CT

Sample Description:

Work Order: 13A0744

Date Received: 1/29/2013

Field Sample #: 1273830

Sampled: 1/28/2013 10:23

Sample ID: 13A0744-12

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0049	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:56	MFF
Methylene Chloride	ND	0.024	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:56	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.024	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:56	MFF
Naphthalene	ND	0.0049	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:56	MFF
n-Propylbenzene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:56	MFF
Styrene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:56	MFF
1,1,1,2-Tetrachloroethane	ND	0.0024	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:56	MFF
1,1,2,2-Tetrachloroethane	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:56	MFF
Tetrachloroethylene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:56	MFF
Tetrahydrofuran	ND	0.012	mg/Kg dry	1	V-16	SW-846 8260C	1/31/13	2/1/13 2:56	MFF
Toluene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:56	MFF
1,2,3-Trichlorobenzene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:56	MFF
1,2,4-Trichlorobenzene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:56	MFF
1,1,1-Trichloroethane	ND	0.0024	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:56	MFF
1,1,2-Trichloroethane	ND	0.0024	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:56	MFF
Trichloroethylene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:56	MFF
Trichlorofluoromethane (Freon 11)	ND	0.012	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:56	MFF
1,2,3-Trichloropropane	ND	0.0024	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:56	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.012	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:56	MFF
1,2,4-Trimethylbenzene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:56	MFF
1,3,5-Trimethylbenzene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:56	MFF
Vinyl Chloride	ND	0.012	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:56	MFF
m+p Xylene	ND	0.0049	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:56	MFF
o-Xylene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 2:56	MFF
Surrogates	% Recovery	Recovery Limits	Flag						
1,2-Dichloroethane-d4	114	70-130							
Toluene-d8	97.8	70-130							
4-Bromofluorobenzene	85.8	70-130							



Project Location: Mystic, CT

Sample Description:

Work Order: 13A0744

Date Received: 1/29/2013

Field Sample #: 1273830

Sampled: 1/28/2013 10:23

Sample ID: 13A0744-12

Sample Matrix: Soil

## Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 16:11	BGL
Acenaphthylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 16:11	BGL
Anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 16:11	BGL
Benzo(a)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 16:11	BGL
Benzo(a)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 16:11	BGL
Benzo(b)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 16:11	BGL
Benzo(g,h,i)perylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 16:11	BGL
Benzo(k)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 16:11	BGL
Chrysene	ND	0.19	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 16:11	BGL
Dibenz(a,h)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 16:11	BGL
Fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 16:11	BGL
Fluorene	ND	0.19	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 16:11	BGL
Indeno(1,2,3-cd)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 16:11	BGL
2-Methylnaphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 16:11	BGL
Naphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 16:11	BGL
Phenanthrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 16:11	BGL
Pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 16:11	BGL
Surrogates	% Recovery	Recovery Limits	Flag						
Nitrobenzene-d5	84.4	30-130							
2-Fluorobiphenyl	92.5	30-130							
Terphenyl-d14	114	30-130							



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

Project Location: Mystic, CT

Sample Description:

Work Order: 13A0744

Date Received: 1/29/2013

Field Sample #: 1273830

Sampled: 1/28/2013 10:23

Sample ID: 13A0744-12

Sample Matrix: Soil

#### Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	25	11	mg/Kg dry	1		CTDEP ETPH	2/2/13	2/6/13 2:43	SCS
Surrogates	% Recovery		Recovery Limits		Flag				
o-Terphenyl	68.7		50-150			2/6/13 2:43			



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

Project Location: Mystic, CT

Sample Description:

Work Order: 13A0744

Date Received: 1/29/2013

Field Sample #: 1273830

Sampled: 1/28/2013 10:23

Sample ID: 13A0744-12

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	90.7		% Wt	1		SM 2540G	1/30/13	1/31/13 11:35	CWB



Project Location: Mystic, CT

Sample Description:

Work Order: 13A0744

Date Received: 1/29/2013

Field Sample #: 1273831

Sampled: 1/28/2013 10:26

Sample ID: 13A0744-13

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.12	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 3:23	MFF
Acetone	ND	0.14	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 10:13	MFF
Acrylonitrile	ND	0.0072	mg/Kg dry	1	V-16	SW-846 8260C	1/31/13	2/1/13 3:23	MFF
Acrylonitrile	ND	0.0086	mg/Kg dry	1	V-16	SW-846 8260C	1/31/13	2/1/13 10:13	MFF
Benzene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 3:23	MFF
Benzene	ND	0.0029	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 10:13	MFF
Bromobenzene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 3:23	MFF
Bromobenzene	ND	0.0029	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 10:13	MFF
Bromodichloromethane	ND	0.0024	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 3:23	MFF
Bromodichloromethane	ND	0.0029	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 10:13	MFF
Bromoform	ND	0.0024	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 3:23	MFF
Bromoform	ND	0.0029	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 10:13	MFF
Bromomethane	ND	0.012	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 3:23	MFF
Bromomethane	ND	0.014	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 10:13	MFF
2-Butanone (MEK)	ND	0.048	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 3:23	MFF
2-Butanone (MEK)	ND	0.058	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 10:13	MFF
n-Butylbenzene	ND	0.0024	mg/Kg dry	1	V-17	SW-846 8260C	1/31/13	2/1/13 3:23	MFF
n-Butylbenzene	ND	0.0029	mg/Kg dry	1	V-17	SW-846 8260C	1/31/13	2/1/13 10:13	MFF
sec-Butylbenzene	ND	0.0024	mg/Kg dry	1	V-17	SW-846 8260C	1/31/13	2/1/13 3:23	MFF
sec-Butylbenzene	ND	0.0029	mg/Kg dry	1	V-17	SW-846 8260C	1/31/13	2/1/13 10:13	MFF
tert-Butylbenzene	ND	0.0024	mg/Kg dry	1	V-17	SW-846 8260C	1/31/13	2/1/13 3:23	MFF
tert-Butylbenzene	ND	0.0029	mg/Kg dry	1	V-17	SW-846 8260C	1/31/13	2/1/13 10:13	MFF
Carbon Disulfide	ND	0.0072	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 3:23	MFF
Carbon Disulfide	ND	0.0086	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 10:13	MFF
Carbon Tetrachloride	ND	0.0024	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 3:23	MFF
Carbon Tetrachloride	ND	0.0029	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 10:13	MFF
Chlorobenzene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 3:23	MFF
Chlorobenzene	ND	0.0029	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 10:13	MFF
Chlorodibromomethane	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 3:23	MFF
Chlorodibromomethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 10:13	MFF
Chloroethane	ND	0.024	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 3:23	MFF
Chloroethane	ND	0.029	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 10:13	MFF
Chloroform	ND	0.0048	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 3:23	MFF
Chloroform	ND	0.0058	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 10:13	MFF
Chloromethane	ND	0.012	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 3:23	MFF
Chloromethane	ND	0.014	mg/Kg dry	1	L-03	SW-846 8260C	1/31/13	2/1/13 10:13	MFF
2-Chlorotoluene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 3:23	MFF
2-Chlorotoluene	ND	0.0029	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 10:13	MFF
4-Chlorotoluene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 3:23	MFF
4-Chlorotoluene	ND	0.0029	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 10:13	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0024	mg/Kg dry	1	V-16, V-17	SW-846 8260C	1/31/13	2/1/13 3:23	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0029	mg/Kg dry	1	V-16, V-17	SW-846 8260C	1/31/13	2/1/13 10:13	MFF
1,2-Dibromoethane (EDB)	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 3:23	MFF
1,2-Dibromoethane (EDB)	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 10:13	MFF



Project Location: Mystic, CT

Sample Description:

Work Order: 13A0744

Date Received: 1/29/2013

Field Sample #: 1273831

Sampled: 1/28/2013 10:26

Sample ID: 13A0744-13

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Dibromomethane	ND	0.0024	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 3:23	MFF
Dibromomethane	ND	0.0029	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 10:13	MFF
1,2-Dichlorobenzene	ND	0.0024	mg/Kg dry	1	V-17	SW-846 8260C	1/31/13	2/1/13 3:23	MFF
1,2-Dichlorobenzene	ND	0.0029	mg/Kg dry	1	V-17	SW-846 8260C	1/31/13	2/1/13 10:13	MFF
1,3-Dichlorobenzene	ND	0.0024	mg/Kg dry	1	V-17	SW-846 8260C	1/31/13	2/1/13 3:23	MFF
1,3-Dichlorobenzene	ND	0.0029	mg/Kg dry	1	V-17	SW-846 8260C	1/31/13	2/1/13 10:13	MFF
1,4-Dichlorobenzene	ND	0.0024	mg/Kg dry	1	V-17	SW-846 8260C	1/31/13	2/1/13 3:23	MFF
1,4-Dichlorobenzene	ND	0.0029	mg/Kg dry	1	V-17	SW-846 8260C	1/31/13	2/1/13 10:13	MFF
trans-1,4-Dichloro-2-butene	ND	0.0048	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 3:23	MFF
trans-1,4-Dichloro-2-butene	ND	0.0058	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 10:13	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.024	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 3:23	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.029	mg/Kg dry	1	L-03	SW-846 8260C	1/31/13	2/1/13 10:13	MFF
1,1-Dichloroethane	ND	0.0024	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 3:23	MFF
1,1-Dichloroethane	ND	0.0029	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 10:13	MFF
1,2-Dichloroethane	ND	0.0024	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 3:23	MFF
1,2-Dichloroethane	ND	0.0029	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 10:13	MFF
1,1-Dichloroethylene	ND	0.0048	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 3:23	MFF
1,1-Dichloroethylene	ND	0.0058	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 10:13	MFF
cis-1,2-Dichloroethylene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 3:23	MFF
cis-1,2-Dichloroethylene	ND	0.0029	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 10:13	MFF
trans-1,2-Dichloroethylene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 3:23	MFF
trans-1,2-Dichloroethylene	ND	0.0029	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 10:13	MFF
1,2-Dichloropropane	ND	0.0024	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 3:23	MFF
1,2-Dichloropropane	ND	0.0029	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 10:13	MFF
1,3-Dichloropropane	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 3:23	MFF
1,3-Dichloropropane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 10:13	MFF
2,2-Dichloropropane	ND	0.0024	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 3:23	MFF
2,2-Dichloropropane	ND	0.0029	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 10:13	MFF
1,1-Dichloropropene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 3:23	MFF
1,1-Dichloropropene	ND	0.0029	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 10:13	MFF
cis-1,3-Dichloropropene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 3:23	MFF
cis-1,3-Dichloropropene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 10:13	MFF
trans-1,3-Dichloropropene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 3:23	MFF
trans-1,3-Dichloropropene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 10:13	MFF
Ethylbenzene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 3:23	MFF
Ethylbenzene	ND	0.0029	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 10:13	MFF
Hexachlorobutadiene	ND	0.0024	mg/Kg dry	1	V-17	SW-846 8260C	1/31/13	2/1/13 3:23	MFF
Hexachlorobutadiene	ND	0.0029	mg/Kg dry	1	V-17	SW-846 8260C	1/31/13	2/1/13 10:13	MFF
2-Hexanone (MBK)	ND	0.024	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 3:23	MFF
2-Hexanone (MBK)	ND	0.029	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 10:13	MFF
Isopropylbenzene (Cumene)	ND	0.0024	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 3:23	MFF
Isopropylbenzene (Cumene)	ND	0.0029	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 10:13	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0024	mg/Kg dry	1	V-17	SW-846 8260C	1/31/13	2/1/13 3:23	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0029	mg/Kg dry	1	V-17	SW-846 8260C	1/31/13	2/1/13 10:13	MFF



Project Location: Mystic, CT

Sample Description:

Work Order: 13A0744

Date Received: 1/29/2013

Field Sample #: 1273831

Sampled: 1/28/2013 10:26

Sample ID: 13A0744-13

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0048	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 3:23	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0058	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 10:13	MFF
Methylene Chloride	ND	0.024	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 3:23	MFF
Methylene Chloride	ND	0.029	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 10:13	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.024	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 3:23	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.029	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 10:13	MFF
Naphthalene	ND	0.0048	mg/Kg dry	1	V-17	SW-846 8260C	1/31/13	2/1/13 3:23	MFF
Naphthalene	ND	0.0058	mg/Kg dry	1	V-17	SW-846 8260C	1/31/13	2/1/13 10:13	MFF
n-Propylbenzene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 3:23	MFF
n-Propylbenzene	ND	0.0029	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 10:13	MFF
Styrene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 3:23	MFF
Styrene	ND	0.0029	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 10:13	MFF
1,1,1,2-Tetrachloroethane	ND	0.0024	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 3:23	MFF
1,1,1,2-Tetrachloroethane	ND	0.0029	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 10:13	MFF
1,1,2,2-Tetrachloroethane	ND	0.0012	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 3:23	MFF
1,1,2,2-Tetrachloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 10:13	MFF
Tetrachloroethylene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 3:23	MFF
Tetrachloroethylene	ND	0.0029	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 10:13	MFF
Tetrahydrofuran	ND	0.012	mg/Kg dry	1	V-16	SW-846 8260C	1/31/13	2/1/13 3:23	MFF
Tetrahydrofuran	ND	0.014	mg/Kg dry	1	V-16	SW-846 8260C	1/31/13	2/1/13 10:13	MFF
Toluene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 3:23	MFF
Toluene	ND	0.0029	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 10:13	MFF
1,2,3-Trichlorobenzene	ND	0.0024	mg/Kg dry	1	V-17	SW-846 8260C	1/31/13	2/1/13 3:23	MFF
1,2,3-Trichlorobenzene	ND	0.0029	mg/Kg dry	1	V-17	SW-846 8260C	1/31/13	2/1/13 10:13	MFF
1,2,4-Trichlorobenzene	ND	0.0024	mg/Kg dry	1	V-17	SW-846 8260C	1/31/13	2/1/13 3:23	MFF
1,2,4-Trichlorobenzene	ND	0.0029	mg/Kg dry	1	V-17	SW-846 8260C	1/31/13	2/1/13 10:13	MFF
1,1,1-Trichloroethane	ND	0.0024	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 3:23	MFF
1,1,1-Trichloroethane	ND	0.0029	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 10:13	MFF
1,1,2-Trichloroethane	ND	0.0024	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 3:23	MFF
1,1,2-Trichloroethane	ND	0.0029	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 10:13	MFF
Trichloroethylene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 3:23	MFF
Trichloroethylene	ND	0.0029	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 10:13	MFF
Trichlorofluoromethane (Freon 11)	ND	0.012	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 3:23	MFF
Trichlorofluoromethane (Freon 11)	ND	0.014	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 10:13	MFF
1,2,3-Trichloropropane	ND	0.0024	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 3:23	MFF
1,2,3-Trichloropropane	ND	0.0029	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 10:13	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.012	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 3:23	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.014	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 10:13	MFF
1,2,4-Trimethylbenzene	ND	0.0024	mg/Kg dry	1	V-17	SW-846 8260C	1/31/13	2/1/13 3:23	MFF
1,2,4-Trimethylbenzene	ND	0.0029	mg/Kg dry	1	V-17	SW-846 8260C	1/31/13	2/1/13 10:13	MFF
1,3,5-Trimethylbenzene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 3:23	MFF
1,3,5-Trimethylbenzene	ND	0.0029	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 10:13	MFF
Vinyl Chloride	ND	0.012	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 3:23	MFF



Project Location: Mystic, CT

Sample Description:

Work Order: 13A0744

Date Received: 1/29/2013

Field Sample #: 1273831

Sampled: 1/28/2013 10:26

Sample ID: 13A0744-13

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Vinyl Chloride	ND	0.014	mg/Kg dry	1	L-03	SW-846 8260C	1/31/13	2/1/13 10:13	MFF
m+p Xylene	ND	0.0048	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 3:23	MFF
m+p Xylene	ND	0.0058	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 10:13	MFF
o-Xylene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 3:23	MFF
o-Xylene	ND	0.0029	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 10:13	MFF
Surrogates	% Recovery	Recovery Limits	Flag						
1,2-Dichloroethane-d4	111	70-130						2/1/13 3:23	
1,2-Dichloroethane-d4	112	70-130						2/1/13 10:13	
Toluene-d8	95.5	70-130						2/1/13 3:23	
Toluene-d8	94.4	70-130						2/1/13 10:13	
4-Bromofluorobenzene	76.4	70-130						2/1/13 3:23	
4-Bromofluorobenzene	70.0	70-130						2/1/13 10:13	



Project Location: Mystic, CT

Sample Description:

Work Order: 13A0744

Date Received: 1/29/2013

Field Sample #: 1273831

Sampled: 1/28/2013 10:26

Sample ID: 13A0744-13

Sample Matrix: Soil

## Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.50	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 14:21	CMR
Acenaphthylene	ND	0.50	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 14:21	CMR
Anthracene	ND	0.50	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 14:21	CMR
Benzo(a)anthracene	ND	0.50	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 14:21	CMR
Benzo(a)pyrene	ND	0.50	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 14:21	CMR
Benzo(b)fluoranthene	ND	0.50	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 14:21	CMR
Benzo(g,h,i)perylene	ND	0.50	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 14:21	CMR
Benzo(k)fluoranthene	ND	0.50	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 14:21	CMR
Chrysene	ND	0.50	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 14:21	CMR
Dibenz(a,h)anthracene	ND	0.50	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 14:21	CMR
Fluoranthene	ND	0.50	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 14:21	CMR
Fluorene	ND	0.50	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 14:21	CMR
Indeno(1,2,3-cd)pyrene	ND	0.50	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 14:21	CMR
2-Methylnaphthalene	ND	0.50	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 14:21	CMR
Naphthalene	ND	0.50	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 14:21	CMR
Phenanthrene	ND	0.50	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 14:21	CMR
Pyrene	ND	0.50	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 14:21	CMR
Surrogates	% Recovery	Recovery Limits	Flag						
Nitrobenzene-d5	101	30-130							
2-Fluorobiphenyl	105	30-130							
Terphenyl-d14	105	30-130							



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

Project Location: Mystic, CT

Sample Description:

Work Order: 13A0744

Date Received: 1/29/2013

Field Sample #: 1273831

Sampled: 1/28/2013 10:26

Sample ID: 13A0744-13

Sample Matrix: Soil

Sample Flags: DL-03

**Petroleum Hydrocarbons Analyses**

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	250	29	mg/Kg dry	1		CTDEP ETPH	2/2/13	2/6/13 2:26	SCS
Surrogates	% Recovery		Recovery Limits		Flag				
o-Terphenyl	68.0		50-150			2/6/13 2:26			



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

Project Location: Mystic, CT

Sample Description:

Work Order: 13A0744

Date Received: 1/29/2013

Sampled: 1/28/2013 10:26

Field Sample #: 1273831

Sample ID: 13A0744-13

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	67.4		% Wt	1		SM 2540G	1/30/13	1/31/13 11:35	CWB



Project Location: Mystic, CT

Sample Description:

Work Order: 13A0744

Date Received: 1/29/2013

Field Sample #: 1273835

Sampled: 1/28/2013 10:51

Sample ID: 13A0744-17

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.10	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 10:40	MFF
Acrylonitrile	ND	0.0061	mg/Kg dry	1	V-16	SW-846 8260C	1/31/13	2/1/13 10:40	MFF
Benzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 10:40	MFF
Bromobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 10:40	MFF
Bromodichloromethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 10:40	MFF
Bromoform	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 10:40	MFF
Bromomethane	ND	0.010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 10:40	MFF
2-Butanone (MEK)	ND	0.041	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 10:40	MFF
n-Butylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 10:40	MFF
sec-Butylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 10:40	MFF
tert-Butylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 10:40	MFF
Carbon Disulfide	ND	0.0061	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 10:40	MFF
Carbon Tetrachloride	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 10:40	MFF
Chlorobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 10:40	MFF
Chlorodibromomethane	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 10:40	MFF
Chloroethane	ND	0.020	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 10:40	MFF
Chloroform	ND	0.0041	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 10:40	MFF
Chloromethane	ND	0.010	mg/Kg dry	1	L-03	SW-846 8260C	1/31/13	2/1/13 10:40	MFF
2-Chlorotoluene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 10:40	MFF
4-Chlorotoluene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 10:40	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg dry	1	V-16	SW-846 8260C	1/31/13	2/1/13 10:40	MFF
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 10:40	MFF
Dibromomethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 10:40	MFF
1,2-Dichlorobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 10:40	MFF
1,3-Dichlorobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 10:40	MFF
1,4-Dichlorobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 10:40	MFF
trans-1,4-Dichloro-2-butene	ND	0.0041	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 10:40	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.020	mg/Kg dry	1	L-03	SW-846 8260C	1/31/13	2/1/13 10:40	MFF
1,1-Dichloroethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 10:40	MFF
1,2-Dichloroethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 10:40	MFF
1,1-Dichloroethylene	ND	0.0041	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 10:40	MFF
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 10:40	MFF
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 10:40	MFF
1,2-Dichloropropane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 10:40	MFF
1,3-Dichloropropane	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 10:40	MFF
2,2-Dichloropropane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 10:40	MFF
1,1-Dichloropropene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 10:40	MFF
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 10:40	MFF
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 10:40	MFF
Ethylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 10:40	MFF
Hexachlorobutadiene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 10:40	MFF
2-Hexanone (MBK)	ND	0.020	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 10:40	MFF
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 10:40	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 10:40	MFF



Project Location: Mystic, CT

Sample Description:

Work Order: 13A0744

Date Received: 1/29/2013

Field Sample #: 1273835

Sampled: 1/28/2013 10:51

Sample ID: 13A0744-17

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0041	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 10:40	MFF
Methylene Chloride	ND	0.020	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 10:40	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 10:40	MFF
Naphthalene	ND	0.0041	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 10:40	MFF
n-Propylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 10:40	MFF
Styrene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 10:40	MFF
1,1,1,2-Tetrachloroethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 10:40	MFF
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 10:40	MFF
Tetrachloroethylene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 10:40	MFF
Tetrahydrofuran	ND	0.010	mg/Kg dry	1	V-16	SW-846 8260C	1/31/13	2/1/13 10:40	MFF
Toluene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 10:40	MFF
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 10:40	MFF
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 10:40	MFF
1,1,1-Trichloroethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 10:40	MFF
1,1,2-Trichloroethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 10:40	MFF
Trichloroethylene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 10:40	MFF
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 10:40	MFF
1,2,3-Trichloropropane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 10:40	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 10:40	MFF
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 10:40	MFF
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 10:40	MFF
Vinyl Chloride	ND	0.010	mg/Kg dry	1	L-03	SW-846 8260C	1/31/13	2/1/13 10:40	MFF
m+p Xylene	ND	0.0041	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 10:40	MFF
o-Xylene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 10:40	MFF
Surrogates	% Recovery	Recovery Limits	Flag						
1,2-Dichloroethane-d4	116	70-130							
Toluene-d8	96.2	70-130							
4-Bromofluorobenzene	78.4	70-130							



Project Location: Mystic, CT

Sample Description:

Work Order: 13A0744

Date Received: 1/29/2013

Field Sample #: 1273835

Sampled: 1/28/2013 10:51

Sample ID: 13A0744-17

Sample Matrix: Soil

## Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.21	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 14:52	CMR
Acenaphthylene	0.24	0.21	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 14:52	CMR
Anthracene	ND	0.21	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 14:52	CMR
Benzo(a)anthracene	0.53	0.21	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 14:52	CMR
Benzo(a)pyrene	0.55	0.21	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 14:52	CMR
Benzo(b)fluoranthene	0.86	0.21	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 14:52	CMR
Benzo(g,h,i)perylene	0.23	0.21	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 14:52	CMR
Benzo(k)fluoranthene	0.33	0.21	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 14:52	CMR
Chrysene	0.69	0.21	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 14:52	CMR
Dibenz(a,h)anthracene	ND	0.21	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 14:52	CMR
Fluoranthene	1.2	0.21	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 14:52	CMR
Fluorene	ND	0.21	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 14:52	CMR
Indeno(1,2,3-cd)pyrene	0.29	0.21	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 14:52	CMR
2-Methylnaphthalene	ND	0.21	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 14:52	CMR
Naphthalene	ND	0.21	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 14:52	CMR
Phenanthrene	0.64	0.21	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 14:52	CMR
Pyrene	0.76	0.21	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 14:52	CMR
Surrogates	% Recovery	Recovery Limits	Flag						
Nitrobenzene-d5	83.6	30-130							
2-Fluorobiphenyl	99.4	30-130							
Terphenyl-d14	59.1	30-130							



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

Project Location: Mystic, CT

Sample Description:

Work Order: 13A0744

Date Received: 1/29/2013

Field Sample #: 1273835

Sampled: 1/28/2013 10:51

Sample ID: 13A0744-17

Sample Matrix: Soil

#### Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	270	120	mg/Kg dry	10		CTDEP ETPH	2/2/13	2/6/13 2:43	SCS
Surrogates	% Recovery		Recovery Limits		Flag				
o-Terphenyl	56.5		50-150			2/6/13 2:43			



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

Project Location: Mystic, CT

Sample Description:

Work Order: 13A0744

Date Received: 1/29/2013

Sampled: 1/28/2013 10:51

Field Sample #: 1273835

Sample ID: 13A0744-17

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	81.1		% Wt	1		SM 2540G	1/30/13	1/31/13 11:35	CWB



Project Location: Mystic, CT

Sample Description:

Work Order: 13A0744

Date Received: 1/29/2013

Field Sample #: 1273836

Sampled: 1/28/2013 10:55

Sample ID: 13A0744-18

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.11	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 4:18	MFF
Acrylonitrile	ND	0.0067	mg/Kg dry	1	V-16	SW-846 8260C	1/31/13	2/1/13 4:18	MFF
Benzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 4:18	MFF
Bromobenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 4:18	MFF
Bromodichloromethane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 4:18	MFF
Bromoform	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 4:18	MFF
Bromomethane	ND	0.011	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 4:18	MFF
2-Butanone (MEK)	ND	0.044	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 4:18	MFF
n-Butylbenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 4:18	MFF
sec-Butylbenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 4:18	MFF
tert-Butylbenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 4:18	MFF
Carbon Disulfide	ND	0.0067	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 4:18	MFF
Carbon Tetrachloride	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 4:18	MFF
Chlorobenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 4:18	MFF
Chlorodibromomethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 4:18	MFF
Chloroethane	ND	0.022	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 4:18	MFF
Chloroform	ND	0.0044	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 4:18	MFF
Chloromethane	ND	0.011	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 4:18	MFF
2-Chlorotoluene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 4:18	MFF
4-Chlorotoluene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 4:18	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0022	mg/Kg dry	1	V-16	SW-846 8260C	1/31/13	2/1/13 4:18	MFF
1,2-Dibromoethane (EDB)	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 4:18	MFF
Dibromomethane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 4:18	MFF
1,2-Dichlorobenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 4:18	MFF
1,3-Dichlorobenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 4:18	MFF
1,4-Dichlorobenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 4:18	MFF
trans-1,4-Dichloro-2-butene	ND	0.0044	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 4:18	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.022	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 4:18	MFF
1,1-Dichloroethane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 4:18	MFF
1,2-Dichloroethane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 4:18	MFF
1,1-Dichloroethylene	ND	0.0044	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 4:18	MFF
cis-1,2-Dichloroethylene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 4:18	MFF
trans-1,2-Dichloroethylene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 4:18	MFF
1,2-Dichloropropane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 4:18	MFF
1,3-Dichloropropane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 4:18	MFF
2,2-Dichloropropane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 4:18	MFF
1,1-Dichloropropene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 4:18	MFF
cis-1,3-Dichloropropene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 4:18	MFF
trans-1,3-Dichloropropene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 4:18	MFF
Ethylbenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 4:18	MFF
Hexachlorobutadiene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 4:18	MFF
2-Hexanone (MBK)	ND	0.022	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 4:18	MFF
Isopropylbenzene (Cumene)	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 4:18	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 4:18	MFF



Project Location: Mystic, CT

Sample Description:

Work Order: 13A0744

Date Received: 1/29/2013

Field Sample #: 1273836

Sampled: 1/28/2013 10:55

Sample ID: 13A0744-18

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0044	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 4:18	MFF
Methylene Chloride	ND	0.022	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 4:18	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.022	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 4:18	MFF
Naphthalene	ND	0.0044	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 4:18	MFF
n-Propylbenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 4:18	MFF
Styrene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 4:18	MFF
1,1,1,2-Tetrachloroethane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 4:18	MFF
1,1,2,2-Tetrachloroethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 4:18	MFF
Tetrachloroethylene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 4:18	MFF
Tetrahydrofuran	ND	0.011	mg/Kg dry	1	V-16	SW-846 8260C	1/31/13	2/1/13 4:18	MFF
Toluene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 4:18	MFF
1,2,3-Trichlorobenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 4:18	MFF
1,2,4-Trichlorobenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 4:18	MFF
1,1,1-Trichloroethane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 4:18	MFF
1,1,2-Trichloroethane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 4:18	MFF
Trichloroethylene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 4:18	MFF
Trichlorofluoromethane (Freon 11)	ND	0.011	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 4:18	MFF
1,2,3-Trichloropropane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 4:18	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.011	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 4:18	MFF
1,2,4-Trimethylbenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 4:18	MFF
1,3,5-Trimethylbenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 4:18	MFF
Vinyl Chloride	ND	0.011	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 4:18	MFF
m+p Xylene	ND	0.0044	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 4:18	MFF
o-Xylene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 4:18	MFF
Surrogates	% Recovery	Recovery Limits	Flag						
1,2-Dichloroethane-d4	115	70-130							
Toluene-d8	98.9	70-130							
4-Bromofluorobenzene	86.9	70-130							



Project Location: Mystic, CT

Sample Description:

Work Order: 13A0744

Date Received: 1/29/2013

Field Sample #: 1273836

Sampled: 1/28/2013 10:55

Sample ID: 13A0744-18

Sample Matrix: Soil

## Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 12:32	CMR
Acenaphthylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 12:32	CMR
Anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 12:32	CMR
Benzo(a)anthracene	0.32	0.19	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 12:32	CMR
Benzo(a)pyrene	0.33	0.19	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 12:32	CMR
Benzo(b)fluoranthene	0.39	0.19	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 12:32	CMR
Benzo(g,h,i)perylene	0.25	0.19	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 12:32	CMR
Benzo(k)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 12:32	CMR
Chrysene	0.42	0.19	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 12:32	CMR
Dibenz(a,h)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 12:32	CMR
Fluoranthene	0.51	0.19	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 12:32	CMR
Fluorene	ND	0.19	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 12:32	CMR
Indeno(1,2,3-cd)pyrene	0.36	0.19	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 12:32	CMR
2-Methylnaphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 12:32	CMR
Naphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 12:32	CMR
Phenanthrene	0.53	0.19	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 12:32	CMR
Pyrene	0.78	0.19	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 12:32	CMR
Surrogates	% Recovery	Recovery Limits	Flag						
Nitrobenzene-d5	58.4	30-130						2/4/13 12:32	
2-Fluorobiphenyl	47.7	30-130						2/4/13 12:32	
Terphenyl-d14	66.9	30-130						2/4/13 12:32	



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

Project Location: Mystic, CT

Sample Description:

Work Order: 13A0744

Date Received: 1/29/2013

Field Sample #: 1273836

Sampled: 1/28/2013 10:55

Sample ID: 13A0744-18

Sample Matrix: Soil

**Petroleum Hydrocarbons Analyses**

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	55	12	mg/Kg dry	1		CTDEP ETPH	2/2/13	2/6/13 0:57	SCS
Surrogates	% Recovery		Recovery Limits		Flag				
o-Terphenyl	72.3		50-150			2/6/13 0:57			



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

Project Location: Mystic, CT

Sample Description:

Work Order: 13A0744

Date Received: 1/29/2013

Sampled: 1/28/2013 10:55

Field Sample #: 1273836

Sample ID: 13A0744-18

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	86.4		% Wt	1		SM 2540G	1/30/13	1/31/13 11:35	CWB



Project Location: Mystic, CT

Sample Description:

Work Order: 13A0744

Date Received: 1/29/2013

Field Sample #: 1273837

Sampled: 1/28/2013 11:01

Sample ID: 13A0744-19

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.089	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 8:50	MFF
Acrylonitrile	ND	0.0053	mg/Kg dry	1	V-16	SW-846 8260C	1/31/13	2/1/13 8:50	MFF
Benzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 8:50	MFF
Bromobenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 8:50	MFF
Bromodichloromethane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 8:50	MFF
Bromoform	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 8:50	MFF
Bromomethane	ND	0.0089	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 8:50	MFF
2-Butanone (MEK)	ND	0.036	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 8:50	MFF
n-Butylbenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 8:50	MFF
sec-Butylbenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 8:50	MFF
tert-Butylbenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 8:50	MFF
Carbon Disulfide	ND	0.0053	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 8:50	MFF
Carbon Tetrachloride	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 8:50	MFF
Chlorobenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 8:50	MFF
Chlorodibromomethane	ND	0.00089	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 8:50	MFF
Chloroethane	ND	0.018	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 8:50	MFF
Chloroform	ND	0.0036	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 8:50	MFF
Chloromethane	ND	0.0089	mg/Kg dry	1	L-03	SW-846 8260C	1/31/13	2/1/13 8:50	MFF
2-Chlorotoluene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 8:50	MFF
4-Chlorotoluene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 8:50	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0018	mg/Kg dry	1	V-16	SW-846 8260C	1/31/13	2/1/13 8:50	MFF
1,2-Dibromoethane (EDB)	ND	0.00089	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 8:50	MFF
Dibromomethane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 8:50	MFF
1,2-Dichlorobenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 8:50	MFF
1,3-Dichlorobenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 8:50	MFF
1,4-Dichlorobenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 8:50	MFF
trans-1,4-Dichloro-2-butene	ND	0.0036	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 8:50	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.018	mg/Kg dry	1	L-03	SW-846 8260C	1/31/13	2/1/13 8:50	MFF
1,1-Dichloroethane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 8:50	MFF
1,2-Dichloroethane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 8:50	MFF
1,1-Dichloroethylene	ND	0.0036	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 8:50	MFF
cis-1,2-Dichloroethylene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 8:50	MFF
trans-1,2-Dichloroethylene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 8:50	MFF
1,2-Dichloropropane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 8:50	MFF
1,3-Dichloropropane	ND	0.00089	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 8:50	MFF
2,2-Dichloropropane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 8:50	MFF
1,1-Dichloropropene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 8:50	MFF
cis-1,3-Dichloropropene	ND	0.00089	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 8:50	MFF
trans-1,3-Dichloropropene	ND	0.00089	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 8:50	MFF
Ethylbenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 8:50	MFF
Hexachlorobutadiene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 8:50	MFF
2-Hexanone (MBK)	ND	0.018	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 8:50	MFF
Isopropylbenzene (Cumene)	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 8:50	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 8:50	MFF



Project Location: Mystic, CT

Sample Description:

Work Order: 13A0744

Date Received: 1/29/2013

Field Sample #: 1273837

Sampled: 1/28/2013 11:01

Sample ID: 13A0744-19

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0036	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 8:50	MFF
Methylene Chloride	ND	0.018	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 8:50	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.018	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 8:50	MFF
Naphthalene	ND	0.0036	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 8:50	MFF
n-Propylbenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 8:50	MFF
Styrene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 8:50	MFF
1,1,1,2-Tetrachloroethane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 8:50	MFF
1,1,2,2-Tetrachloroethane	ND	0.00089	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 8:50	MFF
Tetrachloroethylene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 8:50	MFF
Tetrahydrofuran	ND	0.0089	mg/Kg dry	1	V-16	SW-846 8260C	1/31/13	2/1/13 8:50	MFF
Toluene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 8:50	MFF
1,2,3-Trichlorobenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 8:50	MFF
1,2,4-Trichlorobenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 8:50	MFF
1,1,1-Trichloroethane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 8:50	MFF
1,1,2-Trichloroethane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 8:50	MFF
Trichloroethylene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 8:50	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0089	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 8:50	MFF
1,2,3-Trichloropropane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 8:50	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0089	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 8:50	MFF
1,2,4-Trimethylbenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 8:50	MFF
1,3,5-Trimethylbenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 8:50	MFF
Vinyl Chloride	ND	0.0089	mg/Kg dry	1	L-03	SW-846 8260C	1/31/13	2/1/13 8:50	MFF
m+p Xylene	ND	0.0036	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 8:50	MFF
o-Xylene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 8:50	MFF
Surrogates	% Recovery	Recovery Limits	Flag						
1,2-Dichloroethane-d4	113	70-130							
Toluene-d8	99.2	70-130							
4-Bromofluorobenzene	92.8	70-130							



Project Location: Mystic, CT

Sample Description:

Work Order: 13A0744

Date Received: 1/29/2013

Field Sample #: 1273837

Sampled: 1/28/2013 11:01

Sample ID: 13A0744-19

Sample Matrix: Soil

## Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 13:01	CMR
Acenaphthylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 13:01	CMR
Anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 13:01	CMR
Benzo(a)anthracene	0.28	0.19	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 13:01	CMR
Benzo(a)pyrene	0.32	0.19	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 13:01	CMR
Benzo(b)fluoranthene	0.34	0.19	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 13:01	CMR
Benzo(g,h,i)perylene	0.25	0.19	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 13:01	CMR
Benzo(k)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 13:01	CMR
Chrysene	0.34	0.19	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 13:01	CMR
Dibenz(a,h)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 13:01	CMR
Fluoranthene	0.40	0.19	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 13:01	CMR
Fluorene	ND	0.19	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 13:01	CMR
Indeno(1,2,3-cd)pyrene	0.36	0.19	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 13:01	CMR
2-Methylnaphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 13:01	CMR
Naphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 13:01	CMR
Phenanthrene	0.25	0.19	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 13:01	CMR
Pyrene	0.60	0.19	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 13:01	CMR
Surrogates	% Recovery		Recovery Limits		Flag				
Nitrobenzene-d5	113		30-130				2/4/13 13:01		
2-Fluorobiphenyl	111		30-130				2/4/13 13:01		
Terphenyl-d14	126		30-130				2/4/13 13:01		



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

Project Location: Mystic, CT

Sample Description:

Work Order: 13A0744

Date Received: 1/29/2013

Field Sample #: 1273837

Sampled: 1/28/2013 11:01

Sample ID: 13A0744-19

Sample Matrix: Soil

#### Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	45	11	mg/Kg dry	1		CTDEP ETPH	2/2/13	2/6/13 1:15	SCS
Surrogates	% Recovery		Recovery Limits		Flag				
o-Terphenyl	63.8		50-150			2/6/13 1:15			



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

Project Location: Mystic, CT

Sample Description:

Work Order: 13A0744

Date Received: 1/29/2013

Sampled: 1/28/2013 11:01

Field Sample #: 1273837

Sample ID: 13A0744-19

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	87.9		% Wt	1		SM 2540G	1/30/13	1/31/13 11:35	CWB



Project Location: Mystic, CT

Sample Description:

Work Order: 13A0744

Date Received: 1/29/2013

Field Sample #: 1273838

Sampled: 1/28/2013 11:07

Sample ID: 13A0744-20

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.051	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 9:18	MFF
Acrylonitrile	ND	0.0031	mg/Kg dry	1	V-16	SW-846 8260C	1/31/13	2/1/13 9:18	MFF
Benzene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 9:18	MFF
Bromobenzene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 9:18	MFF
Bromodichloromethane	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 9:18	MFF
Bromoform	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 9:18	MFF
Bromomethane	ND	0.0051	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 9:18	MFF
2-Butanone (MEK)	ND	0.020	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 9:18	MFF
n-Butylbenzene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 9:18	MFF
sec-Butylbenzene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 9:18	MFF
tert-Butylbenzene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 9:18	MFF
Carbon Disulfide	ND	0.0031	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 9:18	MFF
Carbon Tetrachloride	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 9:18	MFF
Chlorobenzene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 9:18	MFF
Chlorodibromomethane	ND	0.00051	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 9:18	MFF
Chloroethane	ND	0.010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 9:18	MFF
Chloroform	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 9:18	MFF
Chloromethane	ND	0.0051	mg/Kg dry	1	L-03	SW-846 8260C	1/31/13	2/1/13 9:18	MFF
2-Chlorotoluene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 9:18	MFF
4-Chlorotoluene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 9:18	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0010	mg/Kg dry	1	V-16	SW-846 8260C	1/31/13	2/1/13 9:18	MFF
1,2-Dibromoethane (EDB)	ND	0.00051	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 9:18	MFF
Dibromomethane	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 9:18	MFF
1,2-Dichlorobenzene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 9:18	MFF
1,3-Dichlorobenzene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 9:18	MFF
1,4-Dichlorobenzene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 9:18	MFF
trans-1,4-Dichloro-2-butene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 9:18	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.010	mg/Kg dry	1	L-03	SW-846 8260C	1/31/13	2/1/13 9:18	MFF
1,1-Dichloroethane	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 9:18	MFF
1,2-Dichloroethane	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 9:18	MFF
1,1-Dichloroethylene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 9:18	MFF
cis-1,2-Dichloroethylene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 9:18	MFF
trans-1,2-Dichloroethylene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 9:18	MFF
1,2-Dichloropropane	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 9:18	MFF
1,3-Dichloropropane	ND	0.00051	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 9:18	MFF
2,2-Dichloropropane	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 9:18	MFF
1,1-Dichloropropene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 9:18	MFF
cis-1,3-Dichloropropene	ND	0.00051	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 9:18	MFF
trans-1,3-Dichloropropene	ND	0.00051	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 9:18	MFF
Ethylbenzene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 9:18	MFF
Hexachlorobutadiene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 9:18	MFF
2-Hexanone (MBK)	ND	0.010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 9:18	MFF
Isopropylbenzene (Cumene)	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 9:18	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 9:18	MFF



Project Location: Mystic, CT

Sample Description:

Work Order: 13A0744

Date Received: 1/29/2013

Field Sample #: 1273838

Sampled: 1/28/2013 11:07

Sample ID: 13A0744-20

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 9:18	MFF
Methylene Chloride	ND	0.010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 9:18	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 9:18	MFF
Naphthalene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 9:18	MFF
n-Propylbenzene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 9:18	MFF
Styrene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 9:18	MFF
1,1,1,2-Tetrachloroethane	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 9:18	MFF
1,1,2,2-Tetrachloroethane	ND	0.00051	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 9:18	MFF
Tetrachloroethylene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 9:18	MFF
Tetrahydrofuran	ND	0.0051	mg/Kg dry	1	V-16	SW-846 8260C	1/31/13	2/1/13 9:18	MFF
Toluene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 9:18	MFF
1,2,3-Trichlorobenzene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 9:18	MFF
1,2,4-Trichlorobenzene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 9:18	MFF
1,1,1-Trichloroethane	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 9:18	MFF
1,1,2-Trichloroethane	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 9:18	MFF
Trichloroethylene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 9:18	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0051	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 9:18	MFF
1,2,3-Trichloropropane	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 9:18	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0051	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 9:18	MFF
1,2,4-Trimethylbenzene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 9:18	MFF
1,3,5-Trimethylbenzene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 9:18	MFF
Vinyl Chloride	ND	0.0051	mg/Kg dry	1	L-03	SW-846 8260C	1/31/13	2/1/13 9:18	MFF
m+p Xylene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 9:18	MFF
o-Xylene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 9:18	MFF
Surrogates	% Recovery	Recovery Limits	Flag						
1,2-Dichloroethane-d4	116	70-130							
Toluene-d8	100	70-130							
4-Bromofluorobenzene	92.3	70-130							



Project Location: Mystic, CT

Sample Description:

Work Order: 13A0744

Date Received: 1/29/2013

Field Sample #: 1273838

Sampled: 1/28/2013 11:07

Sample ID: 13A0744-20

Sample Matrix: Soil

## Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	0.21	0.19	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 13:30	CMR
Acenaphthylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 13:30	CMR
Anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 13:30	CMR
Benzo(a)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 13:30	CMR
Benzo(a)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 13:30	CMR
Benzo(b)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 13:30	CMR
Benzo(g,h,i)perylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 13:30	CMR
Benzo(k)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 13:30	CMR
Chrysene	ND	0.19	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 13:30	CMR
Dibenz(a,h)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 13:30	CMR
Fluoranthene	0.25	0.19	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 13:30	CMR
Fluorene	ND	0.19	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 13:30	CMR
Indeno(1,2,3-cd)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 13:30	CMR
2-Methylnaphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 13:30	CMR
Naphthalene	0.25	0.19	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 13:30	CMR
Phenanthrene	0.54	0.19	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 13:30	CMR
Pyrene	0.27	0.19	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 13:30	CMR
Surrogates	% Recovery	Recovery Limits	Flag						
Nitrobenzene-d5	94.7	30-130							
2-Fluorobiphenyl	89.9	30-130							
Terphenyl-d14	114	30-130							



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

Project Location: Mystic, CT

Sample Description:

Work Order: 13A0744

Date Received: 1/29/2013

Field Sample #: 1273838

Sampled: 1/28/2013 11:07

Sample ID: 13A0744-20

Sample Matrix: Soil

#### Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	40	11	mg/Kg dry	1		CTDEP ETPH	2/2/13	2/6/13 1:33	SCS
Surrogates	% Recovery		Recovery Limits		Flag				
o-Terphenyl	59.6		50-150			2/6/13 1:33			



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

Project Location: Mystic, CT

Sample Description:

Work Order: 13A0744

Date Received: 1/29/2013

Sampled: 1/28/2013 11:07

Field Sample #: 1273838

Sample ID: 13A0744-20

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	88.5		% Wt	1		SM 2540G	1/30/13	1/31/13 11:35	CWB



Project Location: Mystic, CT

Sample Description:

Work Order: 13A0744

Date Received: 1/29/2013

Field Sample #: 1273840

Sampled: 1/28/2013 11:20

Sample ID: 13A0744-22

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.092	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 9:45	MFF
Acrylonitrile	ND	0.0055	mg/Kg dry	1	V-16	SW-846 8260C	1/31/13	2/1/13 9:45	MFF
Benzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 9:45	MFF
Bromobenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 9:45	MFF
Bromodichloromethane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 9:45	MFF
Bromoform	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 9:45	MFF
Bromomethane	ND	0.0092	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 9:45	MFF
2-Butanone (MEK)	ND	0.037	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 9:45	MFF
n-Butylbenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 9:45	MFF
sec-Butylbenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 9:45	MFF
tert-Butylbenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 9:45	MFF
Carbon Disulfide	ND	0.0055	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 9:45	MFF
Carbon Tetrachloride	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 9:45	MFF
Chlorobenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 9:45	MFF
Chlorodibromomethane	ND	0.00092	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 9:45	MFF
Chloroethane	ND	0.018	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 9:45	MFF
Chloroform	ND	0.0037	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 9:45	MFF
Chloromethane	ND	0.0092	mg/Kg dry	1	L-03	SW-846 8260C	1/31/13	2/1/13 9:45	MFF
2-Chlorotoluene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 9:45	MFF
4-Chlorotoluene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 9:45	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0018	mg/Kg dry	1	V-16	SW-846 8260C	1/31/13	2/1/13 9:45	MFF
1,2-Dibromoethane (EDB)	ND	0.00092	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 9:45	MFF
Dibromomethane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 9:45	MFF
1,2-Dichlorobenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 9:45	MFF
1,3-Dichlorobenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 9:45	MFF
1,4-Dichlorobenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 9:45	MFF
trans-1,4-Dichloro-2-butene	ND	0.0037	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 9:45	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.018	mg/Kg dry	1	L-03	SW-846 8260C	1/31/13	2/1/13 9:45	MFF
1,1-Dichloroethane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 9:45	MFF
1,2-Dichloroethane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 9:45	MFF
1,1-Dichloroethylene	ND	0.0037	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 9:45	MFF
cis-1,2-Dichloroethylene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 9:45	MFF
trans-1,2-Dichloroethylene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 9:45	MFF
1,2-Dichloropropane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 9:45	MFF
1,3-Dichloropropane	ND	0.00092	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 9:45	MFF
2,2-Dichloropropane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 9:45	MFF
1,1-Dichloropropene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 9:45	MFF
cis-1,3-Dichloropropene	ND	0.00092	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 9:45	MFF
trans-1,3-Dichloropropene	ND	0.00092	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 9:45	MFF
Ethylbenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 9:45	MFF
Hexachlorobutadiene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 9:45	MFF
2-Hexanone (MBK)	ND	0.018	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 9:45	MFF
Isopropylbenzene (Cumene)	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 9:45	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 9:45	MFF



Project Location: Mystic, CT

Sample Description:

Work Order: 13A0744

Date Received: 1/29/2013

Field Sample #: 1273840

Sampled: 1/28/2013 11:20

Sample ID: 13A0744-22

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0037	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 9:45	MFF
Methylene Chloride	ND	0.018	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 9:45	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.018	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 9:45	MFF
Naphthalene	ND	0.0037	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 9:45	MFF
n-Propylbenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 9:45	MFF
Styrene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 9:45	MFF
1,1,1,2-Tetrachloroethane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 9:45	MFF
1,1,2,2-Tetrachloroethane	ND	0.00092	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 9:45	MFF
Tetrachloroethylene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 9:45	MFF
Tetrahydrofuran	ND	0.0092	mg/Kg dry	1	V-16	SW-846 8260C	1/31/13	2/1/13 9:45	MFF
Toluene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 9:45	MFF
1,2,3-Trichlorobenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 9:45	MFF
1,2,4-Trichlorobenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 9:45	MFF
1,1,1-Trichloroethane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 9:45	MFF
1,1,2-Trichloroethane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 9:45	MFF
Trichloroethylene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 9:45	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0092	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 9:45	MFF
1,2,3-Trichloropropane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 9:45	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0092	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 9:45	MFF
1,2,4-Trimethylbenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 9:45	MFF
1,3,5-Trimethylbenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 9:45	MFF
Vinyl Chloride	ND	0.0092	mg/Kg dry	1	L-03	SW-846 8260C	1/31/13	2/1/13 9:45	MFF
m+p Xylene	ND	0.0037	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 9:45	MFF
o-Xylene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 9:45	MFF
Surrogates	% Recovery	Recovery Limits	Flag						
1,2-Dichloroethane-d4	115	70-130							
Toluene-d8	99.0	70-130							
4-Bromofluorobenzene	95.0	70-130							



Project Location: Mystic, CT

Sample Description:

Work Order: 13A0744

Date Received: 1/29/2013

Field Sample #: 1273840

Sampled: 1/28/2013 11:20

Sample ID: 13A0744-22

Sample Matrix: Soil

## Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 13:59	CMR
Acenaphthylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 13:59	CMR
Anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 13:59	CMR
Benzo(a)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 13:59	CMR
Benzo(a)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 13:59	CMR
Benzo(b)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 13:59	CMR
Benzo(g,h,i)perylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 13:59	CMR
Benzo(k)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 13:59	CMR
Chrysene	ND	0.19	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 13:59	CMR
Dibenz(a,h)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 13:59	CMR
Fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 13:59	CMR
Fluorene	ND	0.19	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 13:59	CMR
Indeno(1,2,3-cd)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 13:59	CMR
2-Methylnaphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 13:59	CMR
Naphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 13:59	CMR
Phenanthrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 13:59	CMR
Pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 13:59	CMR
Surrogates	% Recovery	Recovery Limits	Flag						
Nitrobenzene-d5	96.1	30-130							
2-Fluorobiphenyl	84.4	30-130							
Terphenyl-d14	109	30-130							



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

Project Location: Mystic, CT

Sample Description:

Work Order: 13A0744

Date Received: 1/29/2013

Field Sample #: 1273840

Sampled: 1/28/2013 11:20

Sample ID: 13A0744-22

Sample Matrix: Soil

#### Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	20	11	mg/Kg dry	1		CTDEP ETPH	2/2/13	2/6/13 1:50	SCS
Surrogates	% Recovery		Recovery Limits		Flag				
o-Terphenyl	76.8		50-150			2/6/13 1:50			



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

Project Location: Mystic, CT

Sample Description:

Work Order: 13A0744

Date Received: 1/29/2013

Sampled: 1/28/2013 11:20

Field Sample #: 1273840

Sample ID: 13A0744-22

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	90.6		% Wt	1		SM 2540G	1/30/13	1/31/13 11:35	CWB



Project Location: Mystic, CT

Sample Description:

Work Order: 13A0744

Date Received: 1/29/2013

Field Sample #: 1273841

Sampled: 1/28/2013 11:22

Sample ID: 13A0744-23

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.087	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 11:07	MFF
Acrylonitrile	ND	0.0052	mg/Kg dry	1	V-16	SW-846 8260C	1/31/13	2/1/13 11:07	MFF
Benzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 11:07	MFF
Bromobenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 11:07	MFF
Bromodichloromethane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 11:07	MFF
Bromoform	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 11:07	MFF
Bromomethane	ND	0.0087	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 11:07	MFF
2-Butanone (MEK)	ND	0.035	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 11:07	MFF
n-Butylbenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 11:07	MFF
sec-Butylbenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 11:07	MFF
tert-Butylbenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 11:07	MFF
Carbon Disulfide	ND	0.0052	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 11:07	MFF
Carbon Tetrachloride	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 11:07	MFF
Chlorobenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 11:07	MFF
Chlorodibromomethane	ND	0.00087	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 11:07	MFF
Chloroethane	ND	0.017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 11:07	MFF
Chloroform	ND	0.0035	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 11:07	MFF
Chloromethane	ND	0.0087	mg/Kg dry	1	L-03	SW-846 8260C	1/31/13	2/1/13 11:07	MFF
2-Chlorotoluene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 11:07	MFF
4-Chlorotoluene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 11:07	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0017	mg/Kg dry	1	V-16	SW-846 8260C	1/31/13	2/1/13 11:07	MFF
1,2-Dibromoethane (EDB)	ND	0.00087	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 11:07	MFF
Dibromomethane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 11:07	MFF
1,2-Dichlorobenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 11:07	MFF
1,3-Dichlorobenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 11:07	MFF
1,4-Dichlorobenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 11:07	MFF
trans-1,4-Dichloro-2-butene	ND	0.0035	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 11:07	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.017	mg/Kg dry	1	L-03	SW-846 8260C	1/31/13	2/1/13 11:07	MFF
1,1-Dichloroethane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 11:07	MFF
1,2-Dichloroethane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 11:07	MFF
1,1-Dichloroethylene	ND	0.0035	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 11:07	MFF
cis-1,2-Dichloroethylene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 11:07	MFF
trans-1,2-Dichloroethylene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 11:07	MFF
1,2-Dichloropropane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 11:07	MFF
1,3-Dichloropropane	ND	0.00087	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 11:07	MFF
2,2-Dichloropropane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 11:07	MFF
1,1-Dichloropropene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 11:07	MFF
cis-1,3-Dichloropropene	ND	0.00087	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 11:07	MFF
trans-1,3-Dichloropropene	ND	0.00087	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 11:07	MFF
Ethylbenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 11:07	MFF
Hexachlorobutadiene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 11:07	MFF
2-Hexanone (MBK)	ND	0.017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 11:07	MFF
Isopropylbenzene (Cumene)	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 11:07	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 11:07	MFF



Project Location: Mystic, CT

Sample Description:

Work Order: 13A0744

Date Received: 1/29/2013

Field Sample #: 1273841

Sampled: 1/28/2013 11:22

Sample ID: 13A0744-23

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0035	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 11:07	MFF
Methylene Chloride	ND	0.017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 11:07	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 11:07	MFF
Naphthalene	ND	0.0035	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 11:07	MFF
n-Propylbenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 11:07	MFF
Styrene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 11:07	MFF
1,1,1,2-Tetrachloroethane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 11:07	MFF
1,1,2,2-Tetrachloroethane	ND	0.00087	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 11:07	MFF
Tetrachloroethylene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 11:07	MFF
Tetrahydrofuran	ND	0.0087	mg/Kg dry	1	V-16	SW-846 8260C	1/31/13	2/1/13 11:07	MFF
Toluene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 11:07	MFF
1,2,3-Trichlorobenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 11:07	MFF
1,2,4-Trichlorobenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 11:07	MFF
1,1,1-Trichloroethane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 11:07	MFF
1,1,2-Trichloroethane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 11:07	MFF
Trichloroethylene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 11:07	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0087	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 11:07	MFF
1,2,3-Trichloropropane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 11:07	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0087	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 11:07	MFF
1,2,4-Trimethylbenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 11:07	MFF
1,3,5-Trimethylbenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 11:07	MFF
Vinyl Chloride	ND	0.0087	mg/Kg dry	1	L-03	SW-846 8260C	1/31/13	2/1/13 11:07	MFF
m+p Xylene	ND	0.0035	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 11:07	MFF
o-Xylene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 11:07	MFF
Surrogates	% Recovery	Recovery Limits	Flag						
1,2-Dichloroethane-d4	110	70-130							
Toluene-d8	100	70-130							
4-Bromofluorobenzene	93.2	70-130							



Project Location: Mystic, CT

Sample Description:

Work Order: 13A0744

Date Received: 1/29/2013

Field Sample #: 1273841

Sampled: 1/28/2013 11:22

Sample ID: 13A0744-23

Sample Matrix: Soil

## Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/5/13 11:01	CMR
Acenaphthylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/5/13 11:01	CMR
Anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/5/13 11:01	CMR
Benzo(a)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/5/13 11:01	CMR
Benzo(a)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/5/13 11:01	CMR
Benzo(b)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/5/13 11:01	CMR
Benzo(g,h,i)perylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/5/13 11:01	CMR
Benzo(k)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/5/13 11:01	CMR
Chrysene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/5/13 11:01	CMR
Dibenz(a,h)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/5/13 11:01	CMR
Fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/5/13 11:01	CMR
Fluorene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/5/13 11:01	CMR
Indeno(1,2,3-cd)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/5/13 11:01	CMR
2-Methylnaphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/5/13 11:01	CMR
Naphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/5/13 11:01	CMR
Phenanthrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/5/13 11:01	CMR
Pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/5/13 11:01	CMR
Surrogates	% Recovery	Recovery Limits	Flag						
Nitrobenzene-d5	98.3	30-130						2/5/13 11:01	
2-Fluorobiphenyl	95.0	30-130						2/5/13 11:01	
Terphenyl-d14	101	30-130						2/5/13 11:01	



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

Project Location: Mystic, CT

Sample Description:

Work Order: 13A0744

Date Received: 1/29/2013

Sampled: 1/28/2013 11:22

Field Sample #: 1273841

Sample ID: 13A0744-23

Sample Matrix: Soil

#### Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	11	11	mg/Kg dry	1		CTDEP ETPH	2/2/13	2/6/13 2:08	SCS
Surrogates	% Recovery		Recovery Limits		Flag				
o-Terphenyl	62.4		50-150			2/6/13 2:08			



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

Project Location: Mystic, CT

Sample Description:

Work Order: 13A0744

Date Received: 1/29/2013

Sampled: 1/28/2013 11:22

Field Sample #: 1273841

Sample ID: 13A0744-23

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.2		% Wt	1		SM 2540G	1/30/13	1/31/13 11:35	CWB



Project Location: Mystic, CT

Sample Description:

Work Order: 13A0744

Date Received: 1/29/2013

Field Sample #: 1273844

Sampled: 1/28/2013 11:38

Sample ID: 13A0744-26

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.046	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 11:35	MFF
Acrylonitrile	ND	0.0028	mg/Kg dry	1	V-16	SW-846 8260C	1/31/13	2/1/13 11:35	MFF
Benzene	ND	0.00093	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 11:35	MFF
Bromobenzene	ND	0.00093	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 11:35	MFF
Bromodichloromethane	ND	0.00093	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 11:35	MFF
Bromoform	ND	0.00093	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 11:35	MFF
Bromomethane	ND	0.0046	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 11:35	MFF
2-Butanone (MEK)	ND	0.019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 11:35	MFF
n-Butylbenzene	ND	0.00093	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 11:35	MFF
sec-Butylbenzene	ND	0.00093	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 11:35	MFF
tert-Butylbenzene	ND	0.00093	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 11:35	MFF
Carbon Disulfide	ND	0.0028	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 11:35	MFF
Carbon Tetrachloride	ND	0.00093	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 11:35	MFF
Chlorobenzene	ND	0.00093	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 11:35	MFF
Chlorodibromomethane	ND	0.00046	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 11:35	MFF
Chloroethane	ND	0.0093	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 11:35	MFF
Chloroform	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 11:35	MFF
Chloromethane	ND	0.0046	mg/Kg dry	1	L-03	SW-846 8260C	1/31/13	2/1/13 11:35	MFF
2-Chlorotoluene	ND	0.00093	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 11:35	MFF
4-Chlorotoluene	ND	0.00093	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 11:35	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.00093	mg/Kg dry	1	V-16	SW-846 8260C	1/31/13	2/1/13 11:35	MFF
1,2-Dibromoethane (EDB)	ND	0.00046	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 11:35	MFF
Dibromomethane	ND	0.00093	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 11:35	MFF
1,2-Dichlorobenzene	ND	0.00093	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 11:35	MFF
1,3-Dichlorobenzene	ND	0.00093	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 11:35	MFF
1,4-Dichlorobenzene	ND	0.00093	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 11:35	MFF
trans-1,4-Dichloro-2-butene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 11:35	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.0093	mg/Kg dry	1	L-03	SW-846 8260C	1/31/13	2/1/13 11:35	MFF
1,1-Dichloroethane	ND	0.00093	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 11:35	MFF
1,2-Dichloroethane	ND	0.00093	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 11:35	MFF
1,1-Dichloroethylene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 11:35	MFF
cis-1,2-Dichloroethylene	ND	0.00093	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 11:35	MFF
trans-1,2-Dichloroethylene	ND	0.00093	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 11:35	MFF
1,2-Dichloropropane	ND	0.00093	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 11:35	MFF
1,3-Dichloropropane	ND	0.00046	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 11:35	MFF
2,2-Dichloropropane	ND	0.00093	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 11:35	MFF
1,1-Dichloropropene	ND	0.00093	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 11:35	MFF
cis-1,3-Dichloropropene	ND	0.00046	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 11:35	MFF
trans-1,3-Dichloropropene	ND	0.00046	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 11:35	MFF
Ethylbenzene	ND	0.00093	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 11:35	MFF
Hexachlorobutadiene	ND	0.00093	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 11:35	MFF
2-Hexanone (MBK)	ND	0.0093	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 11:35	MFF
Isopropylbenzene (Cumene)	ND	0.00093	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 11:35	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.00093	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 11:35	MFF



Project Location: Mystic, CT

Sample Description:

Work Order: 13A0744

Date Received: 1/29/2013

Field Sample #: 1273844

Sampled: 1/28/2013 11:38

Sample ID: 13A0744-26

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 11:35	MFF
Methylene Chloride	ND	0.0093	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 11:35	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.0093	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 11:35	MFF
Naphthalene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 11:35	MFF
n-Propylbenzene	ND	0.00093	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 11:35	MFF
Styrene	ND	0.00093	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 11:35	MFF
1,1,1,2-Tetrachloroethane	ND	0.00093	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 11:35	MFF
1,1,2,2-Tetrachloroethane	ND	0.00046	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 11:35	MFF
Tetrachloroethylene	ND	0.00093	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 11:35	MFF
Tetrahydrofuran	ND	0.0046	mg/Kg dry	1	V-16	SW-846 8260C	1/31/13	2/1/13 11:35	MFF
Toluene	ND	0.00093	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 11:35	MFF
1,2,3-Trichlorobenzene	ND	0.00093	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 11:35	MFF
1,2,4-Trichlorobenzene	ND	0.00093	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 11:35	MFF
1,1,1-Trichloroethane	ND	0.00093	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 11:35	MFF
1,1,2-Trichloroethane	ND	0.00093	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 11:35	MFF
Trichloroethylene	ND	0.00093	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 11:35	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0046	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 11:35	MFF
1,2,3-Trichloropropane	ND	0.00093	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 11:35	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0046	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 11:35	MFF
1,2,4-Trimethylbenzene	ND	0.00093	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 11:35	MFF
1,3,5-Trimethylbenzene	ND	0.00093	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 11:35	MFF
Vinyl Chloride	ND	0.0046	mg/Kg dry	1	L-03	SW-846 8260C	1/31/13	2/1/13 11:35	MFF
m+p Xylene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 11:35	MFF
o-Xylene	ND	0.00093	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 11:35	MFF
Surrogates	% Recovery	Recovery Limits	Flag						
1,2-Dichloroethane-d4	116	70-130							
Toluene-d8	100	70-130							
4-Bromofluorobenzene	95.4	70-130							



Project Location: Mystic, CT

Sample Description:

Work Order: 13A0744

Date Received: 1/29/2013

Field Sample #: 1273844

Sampled: 1/28/2013 11:38

Sample ID: 13A0744-26

Sample Matrix: Soil

## Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.17	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 16:22	CMR
Acenaphthylene	ND	0.17	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 16:22	CMR
Anthracene	ND	0.17	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 16:22	CMR
Benzo(a)anthracene	ND	0.17	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 16:22	CMR
Benzo(a)pyrene	ND	0.17	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 16:22	CMR
Benzo(b)fluoranthene	ND	0.17	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 16:22	CMR
Benzo(g,h,i)perylene	ND	0.17	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 16:22	CMR
Benzo(k)fluoranthene	ND	0.17	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 16:22	CMR
Chrysene	ND	0.17	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 16:22	CMR
Dibenz(a,h)anthracene	ND	0.17	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 16:22	CMR
Fluoranthene	ND	0.17	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 16:22	CMR
Fluorene	ND	0.17	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 16:22	CMR
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 16:22	CMR
2-Methylnaphthalene	ND	0.17	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 16:22	CMR
Naphthalene	ND	0.17	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 16:22	CMR
Phenanthrene	ND	0.17	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 16:22	CMR
Pyrene	ND	0.17	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 16:22	CMR
Surrogates	% Recovery	Recovery Limits	Flag						
Nitrobenzene-d5	104	30-130						2/4/13 16:22	
2-Fluorobiphenyl	96.1	30-130						2/4/13 16:22	
Terphenyl-d14	128	30-130						2/4/13 16:22	



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

Project Location: Mystic, CT

Sample Description:

Work Order: 13A0744

Date Received: 1/29/2013

Sampled: 1/28/2013 11:38

Field Sample #: 1273844

Sample ID: 13A0744-26

Sample Matrix: Soil

**Petroleum Hydrocarbons Analyses**

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	ND	10	mg/Kg dry	1		CTDEP ETPH	2/2/13	2/5/13 23:29	SCS
Surrogates	% Recovery		Recovery Limits		Flag				
o-Terphenyl	74.4		50-150			2/5/13 23:29			



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

Project Location: Mystic, CT

Sample Description:

Work Order: 13A0744

Date Received: 1/29/2013

Sampled: 1/28/2013 11:38

Field Sample #: 1273844

Sample ID: 13A0744-26

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	96.1		% Wt	1		SM 2540G	1/30/13	1/31/13 11:35	CWB



Project Location: Mystic, CT

Sample Description:

Work Order: 13A0744

Date Received: 1/29/2013

Field Sample #: 1273846

Sampled: 1/28/2013 12:01

Sample ID: 13A0744-28

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.048	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:02	MFF
Acrylonitrile	ND	0.0029	mg/Kg dry	1	V-16	SW-846 8260C	1/31/13	2/1/13 12:02	MFF
Benzene	ND	0.00095	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:02	MFF
Bromobenzene	ND	0.00095	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:02	MFF
Bromodichloromethane	ND	0.00095	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:02	MFF
Bromoform	ND	0.00095	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:02	MFF
Bromomethane	ND	0.0048	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:02	MFF
2-Butanone (MEK)	ND	0.019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:02	MFF
n-Butylbenzene	ND	0.00095	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:02	MFF
sec-Butylbenzene	ND	0.00095	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:02	MFF
tert-Butylbenzene	ND	0.00095	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:02	MFF
Carbon Disulfide	ND	0.0029	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:02	MFF
Carbon Tetrachloride	ND	0.00095	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:02	MFF
Chlorobenzene	ND	0.00095	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:02	MFF
Chlorodibromomethane	ND	0.00048	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:02	MFF
Chloroethane	ND	0.0095	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:02	MFF
Chloroform	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:02	MFF
Chloromethane	ND	0.0048	mg/Kg dry	1	L-03	SW-846 8260C	1/31/13	2/1/13 12:02	MFF
2-Chlorotoluene	ND	0.00095	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:02	MFF
4-Chlorotoluene	ND	0.00095	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:02	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.00095	mg/Kg dry	1	V-16	SW-846 8260C	1/31/13	2/1/13 12:02	MFF
1,2-Dibromoethane (EDB)	ND	0.00048	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:02	MFF
Dibromomethane	ND	0.00095	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:02	MFF
1,2-Dichlorobenzene	ND	0.00095	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:02	MFF
1,3-Dichlorobenzene	ND	0.00095	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:02	MFF
1,4-Dichlorobenzene	ND	0.00095	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:02	MFF
trans-1,4-Dichloro-2-butene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:02	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.0095	mg/Kg dry	1	L-03	SW-846 8260C	1/31/13	2/1/13 12:02	MFF
1,1-Dichloroethane	ND	0.00095	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:02	MFF
1,2-Dichloroethane	ND	0.00095	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:02	MFF
1,1-Dichloroethylene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:02	MFF
cis-1,2-Dichloroethylene	ND	0.00095	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:02	MFF
trans-1,2-Dichloroethylene	ND	0.00095	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:02	MFF
1,2-Dichloropropane	ND	0.00095	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:02	MFF
1,3-Dichloropropane	ND	0.00048	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:02	MFF
2,2-Dichloropropane	ND	0.00095	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:02	MFF
1,1-Dichloropropene	ND	0.00095	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:02	MFF
cis-1,3-Dichloropropene	ND	0.00048	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:02	MFF
trans-1,3-Dichloropropene	ND	0.00048	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:02	MFF
Ethylbenzene	ND	0.00095	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:02	MFF
Hexachlorobutadiene	ND	0.00095	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:02	MFF
2-Hexanone (MBK)	ND	0.0095	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:02	MFF
Isopropylbenzene (Cumene)	ND	0.00095	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:02	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.00095	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:02	MFF



Project Location: Mystic, CT

Sample Description:

Work Order: 13A0744

Date Received: 1/29/2013

Field Sample #: 1273846

Sampled: 1/28/2013 12:01

Sample ID: 13A0744-28

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:02	MFF
Methylene Chloride	ND	0.0095	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:02	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.0095	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:02	MFF
Naphthalene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:02	MFF
n-Propylbenzene	ND	0.00095	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:02	MFF
Styrene	ND	0.00095	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:02	MFF
1,1,1,2-Tetrachloroethane	ND	0.00095	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:02	MFF
1,1,2,2-Tetrachloroethane	ND	0.00048	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:02	MFF
Tetrachloroethylene	ND	0.00095	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:02	MFF
Tetrahydrofuran	ND	0.0048	mg/Kg dry	1	V-16	SW-846 8260C	1/31/13	2/1/13 12:02	MFF
Toluene	ND	0.00095	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:02	MFF
1,2,3-Trichlorobenzene	ND	0.00095	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:02	MFF
1,2,4-Trichlorobenzene	ND	0.00095	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:02	MFF
1,1,1-Trichloroethane	ND	0.00095	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:02	MFF
1,1,2-Trichloroethane	ND	0.00095	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:02	MFF
Trichloroethylene	ND	0.00095	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:02	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0048	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:02	MFF
1,2,3-Trichloropropane	ND	0.00095	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:02	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0048	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:02	MFF
1,2,4-Trimethylbenzene	ND	0.00095	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:02	MFF
1,3,5-Trimethylbenzene	ND	0.00095	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:02	MFF
Vinyl Chloride	ND	0.0048	mg/Kg dry	1	L-03	SW-846 8260C	1/31/13	2/1/13 12:02	MFF
m+p Xylene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:02	MFF
o-Xylene	ND	0.00095	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:02	MFF
Surrogates	% Recovery	Recovery Limits	Flag						
1,2-Dichloroethane-d4	115	70-130							
Toluene-d8	98.6	70-130							
4-Bromofluorobenzene	92.4	70-130							



Project Location: Mystic, CT

Sample Description:

Work Order: 13A0744

Date Received: 1/29/2013

Field Sample #: 1273846

Sampled: 1/28/2013 12:01

Sample ID: 13A0744-28

Sample Matrix: Soil

## Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 15:26	CMR
Acenaphthylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 15:26	CMR
Anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 15:26	CMR
Benzo(a)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 15:26	CMR
Benzo(a)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 15:26	CMR
Benzo(b)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 15:26	CMR
Benzo(g,h,i)perylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 15:26	CMR
Benzo(k)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 15:26	CMR
Chrysene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 15:26	CMR
Dibenz(a,h)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 15:26	CMR
Fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 15:26	CMR
Fluorene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 15:26	CMR
Indeno(1,2,3-cd)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 15:26	CMR
2-Methylnaphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 15:26	CMR
Naphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 15:26	CMR
Phenanthrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 15:26	CMR
Pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 15:26	CMR
Surrogates	% Recovery	Recovery Limits	Flag						
Nitrobenzene-d5	80.7	30-130							
2-Fluorobiphenyl	75.2	30-130							
Terphenyl-d14	96.2	30-130							



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

Project Location: Mystic, CT

Sample Description:

Work Order: 13A0744

Date Received: 1/29/2013

Field Sample #: 1273846

Sampled: 1/28/2013 12:01

Sample ID: 13A0744-28

Sample Matrix: Soil

#### Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	15	11	mg/Kg dry	1		CTDEP ETPH	2/2/13	2/5/13 23:47	SCS
Surrogates	% Recovery		Recovery Limits		Flag				
o-Terphenyl	64.7		50-150			2/5/13 23:47			



Project Location: Mystic, CT

Sample Description:

Work Order: 13A0744

Date Received: 1/29/2013

Field Sample #: 1273846

Sampled: 1/28/2013 12:01

Sample ID: 13A0744-28

Sample Matrix: Soil

## Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	2.5	mg/Kg dry	1		SW-846 6010C	1/31/13	2/2/13 0:17	OP
Barium	14	2.5	mg/Kg dry	1		SW-846 6010C	1/31/13	2/2/13 0:17	OP
Cadmium	ND	0.25	mg/Kg dry	1		SW-846 6010C	1/31/13	2/2/13 0:17	OP
Chromium	5.3	0.51	mg/Kg dry	1		SW-846 6010C	1/31/13	2/2/13 0:17	OP
Copper	5.9	0.51	mg/Kg dry	1		SW-846 6010C	1/31/13	2/2/13 0:17	OP
Lead	3.3	0.76	mg/Kg dry	1	M-10	SW-846 6010C	1/31/13	2/2/13 18:44	OP
Mercury	ND	0.026	mg/Kg dry	1		SW-846 7471B	2/1/13	2/4/13 12:06	SAJ
Nickel	2.8	0.51	mg/Kg dry	1		SW-846 6010C	1/31/13	2/2/13 18:44	OP
Selenium	ND	5.1	mg/Kg dry	1		SW-846 6010C	1/31/13	2/2/13 0:17	OP
Silver	ND	0.51	mg/Kg dry	1		SW-846 6010C	1/31/13	2/2/13 0:17	OP
Zinc	11	1.0	mg/Kg dry	1		SW-846 6010C	1/31/13	2/2/13 0:17	OP



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

Project Location: Mystic, CT

Sample Description:

Work Order: 13A0744

Date Received: 1/29/2013

Sampled: 1/28/2013 12:01

Field Sample #: 1273846

Sample ID: 13A0744-28

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.9		% Wt	1		SM 2540G	1/30/13	1/31/13 11:35	CWB



Project Location: Mystic, CT

Sample Description:

Work Order: 13A0744

Date Received: 1/29/2013

Field Sample #: 1273849

Sampled: 1/28/2013 14:20

Sample ID: 13A0744-31

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.079	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:29	MFF
Acrylonitrile	ND	0.0047	mg/Kg dry	1	V-16	SW-846 8260C	1/31/13	2/1/13 12:29	MFF
Benzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:29	MFF
Bromobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:29	MFF
Bromodichloromethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:29	MFF
Bromoform	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:29	MFF
Bromomethane	ND	0.0079	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:29	MFF
2-Butanone (MEK)	ND	0.032	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:29	MFF
n-Butylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:29	MFF
sec-Butylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:29	MFF
tert-Butylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:29	MFF
Carbon Disulfide	ND	0.0047	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:29	MFF
Carbon Tetrachloride	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:29	MFF
Chlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:29	MFF
Chlorodibromomethane	ND	0.00079	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:29	MFF
Chloroethane	ND	0.016	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:29	MFF
Chloroform	ND	0.0032	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:29	MFF
Chloromethane	ND	0.0079	mg/Kg dry	1	L-03	SW-846 8260C	1/31/13	2/1/13 12:29	MFF
2-Chlorotoluene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:29	MFF
4-Chlorotoluene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:29	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0016	mg/Kg dry	1	V-16	SW-846 8260C	1/31/13	2/1/13 12:29	MFF
1,2-Dibromoethane (EDB)	ND	0.00079	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:29	MFF
Dibromomethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:29	MFF
1,2-Dichlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:29	MFF
1,3-Dichlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:29	MFF
1,4-Dichlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:29	MFF
trans-1,4-Dichloro-2-butene	ND	0.0032	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:29	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.016	mg/Kg dry	1	L-03	SW-846 8260C	1/31/13	2/1/13 12:29	MFF
1,1-Dichloroethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:29	MFF
1,2-Dichloroethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:29	MFF
1,1-Dichloroethylene	ND	0.0032	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:29	MFF
cis-1,2-Dichloroethylene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:29	MFF
trans-1,2-Dichloroethylene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:29	MFF
1,2-Dichloropropane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:29	MFF
1,3-Dichloropropane	ND	0.00079	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:29	MFF
2,2-Dichloropropane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:29	MFF
1,1-Dichloropropene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:29	MFF
cis-1,3-Dichloropropene	ND	0.00079	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:29	MFF
trans-1,3-Dichloropropene	ND	0.00079	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:29	MFF
Ethylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:29	MFF
Hexachlorobutadiene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:29	MFF
2-Hexanone (MBK)	ND	0.016	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:29	MFF
Isopropylbenzene (Cumene)	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:29	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:29	MFF



Project Location: Mystic, CT

Sample Description:

Work Order: 13A0744

Date Received: 1/29/2013

Field Sample #: 1273849

Sampled: 1/28/2013 14:20

Sample ID: 13A0744-31

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0032	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:29	MFF
Methylene Chloride	ND	0.016	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:29	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.016	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:29	MFF
Naphthalene	ND	0.0032	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:29	MFF
n-Propylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:29	MFF
Styrene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:29	MFF
1,1,1,2-Tetrachloroethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:29	MFF
1,1,2,2-Tetrachloroethane	ND	0.00079	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:29	MFF
Tetrachloroethylene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:29	MFF
Tetrahydrofuran	ND	0.0079	mg/Kg dry	1	V-16	SW-846 8260C	1/31/13	2/1/13 12:29	MFF
Toluene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:29	MFF
1,2,3-Trichlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:29	MFF
1,2,4-Trichlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:29	MFF
1,1,1-Trichloroethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:29	MFF
1,1,2-Trichloroethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:29	MFF
Trichloroethylene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:29	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0079	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:29	MFF
1,2,3-Trichloropropane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:29	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0079	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:29	MFF
1,2,4-Trimethylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:29	MFF
1,3,5-Trimethylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:29	MFF
Vinyl Chloride	ND	0.0079	mg/Kg dry	1	L-03	SW-846 8260C	1/31/13	2/1/13 12:29	MFF
m+p Xylene	ND	0.0032	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:29	MFF
o-Xylene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:29	MFF
Surrogates	% Recovery	Recovery Limits	Flag						
1,2-Dichloroethane-d4	118	70-130							
Toluene-d8	101	70-130							
4-Bromofluorobenzene	95.5	70-130							



Project Location: Mystic, CT

Sample Description:

Work Order: 13A0744

Date Received: 1/29/2013

Field Sample #: 1273849

Sampled: 1/28/2013 14:20

Sample ID: 13A0744-31

Sample Matrix: Soil

## Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 16:44	BGL
Acenaphthylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 16:44	BGL
Anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 16:44	BGL
Benzo(a)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 16:44	BGL
Benzo(a)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 16:44	BGL
Benzo(b)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 16:44	BGL
Benzo(g,h,i)perylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 16:44	BGL
Benzo(k)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 16:44	BGL
Chrysene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 16:44	BGL
Dibenz(a,h)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 16:44	BGL
Fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 16:44	BGL
Fluorene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 16:44	BGL
Indeno(1,2,3-cd)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 16:44	BGL
2-Methylnaphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 16:44	BGL
Naphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 16:44	BGL
Phenanthrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 16:44	BGL
Pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/2/13	2/4/13 16:44	BGL
Surrogates	% Recovery	Recovery Limits	Flag						
Nitrobenzene-d5	93.7	30-130							
2-Fluorobiphenyl	102	30-130							
Terphenyl-d14	128	30-130							



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Project Location: Mystic, CT

Sample Description:

Work Order: 13A0744

Date Received: 1/29/2013

Field Sample #: 1273849

Sampled: 1/28/2013 14:20

Sample ID: 13A0744-31

Sample Matrix: Soil

#### Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	ND	11	mg/Kg dry	1		CTDEP ETPH	2/2/13	2/6/13 0:04	SCS
Surrogates	% Recovery		Recovery Limits		Flag				
o-Terphenyl	64.6		50-150			2/6/13 0:04			



Project Location: Mystic, CT

Sample Description:

Work Order: 13A0744

Date Received: 1/29/2013

Field Sample #: 1273849

Sampled: 1/28/2013 14:20

Sample ID: 13A0744-31

Sample Matrix: Soil

**Metals Analyses (Total)**

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	2.5	mg/Kg dry	1		SW-846 6010C	1/31/13	2/2/13 0:22	OP
Barium	120	2.5	mg/Kg dry	1		SW-846 6010C	1/31/13	2/2/13 0:22	OP
Cadmium	ND	0.25	mg/Kg dry	1		SW-846 6010C	1/31/13	2/2/13 0:22	OP
Chromium	4.8	0.49	mg/Kg dry	1		SW-846 6010C	1/31/13	2/2/13 0:22	OP
Copper	3.1	0.49	mg/Kg dry	1		SW-846 6010C	1/31/13	2/2/13 0:22	OP
Lead	3.6	0.74	mg/Kg dry	1	M-10	SW-846 6010C	1/31/13	2/2/13 18:49	OP
Mercury	ND	0.027	mg/Kg dry	1		SW-846 7471B	1/31/13	2/1/13 12:17	SAJ
Nickel	2.0	0.49	mg/Kg dry	1		SW-846 6010C	1/31/13	2/2/13 18:49	OP
Selenium	ND	4.9	mg/Kg dry	1		SW-846 6010C	1/31/13	2/2/13 0:22	OP
Silver	0.57	0.49	mg/Kg dry	1		SW-846 6010C	1/31/13	2/2/13 0:22	OP
Zinc	40	0.99	mg/Kg dry	1		SW-846 6010C	1/31/13	2/2/13 0:22	OP



Project Location: Mystic, CT

Sample Description:

Work Order: 13A0744

Date Received: 1/29/2013

Sampled: 1/28/2013 14:20

Field Sample #: 1273849

Sample ID: 13A0744-31

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	92.3		% Wt	1		SM 2540G	1/30/13	1/31/13 11:35	CWB



Project Location: Mystic, CT

Sample Description:

Work Order: 13A0744

Date Received: 1/29/2013

Field Sample #: 1273852

Sampled: 1/28/2013 14:42

Sample ID: 13A0744-34

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.039	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:57	MFF
Acrylonitrile	ND	0.0023	mg/Kg dry	1	V-16	SW-846 8260C	1/31/13	2/1/13 12:57	MFF
Benzene	ND	0.00077	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:57	MFF
Bromobenzene	ND	0.00077	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:57	MFF
Bromodichloromethane	ND	0.00077	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:57	MFF
Bromoform	ND	0.00077	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:57	MFF
Bromomethane	ND	0.0039	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:57	MFF
2-Butanone (MEK)	ND	0.015	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:57	MFF
n-Butylbenzene	ND	0.00077	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:57	MFF
sec-Butylbenzene	ND	0.00077	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:57	MFF
tert-Butylbenzene	ND	0.00077	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:57	MFF
Carbon Disulfide	ND	0.0023	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:57	MFF
Carbon Tetrachloride	ND	0.00077	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:57	MFF
Chlorobenzene	ND	0.00077	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:57	MFF
Chlorodibromomethane	ND	0.00039	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:57	MFF
Chloroethane	ND	0.0077	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:57	MFF
Chloroform	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:57	MFF
Chloromethane	ND	0.0039	mg/Kg dry	1	L-03	SW-846 8260C	1/31/13	2/1/13 12:57	MFF
2-Chlorotoluene	ND	0.00077	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:57	MFF
4-Chlorotoluene	ND	0.00077	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:57	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.00077	mg/Kg dry	1	V-16	SW-846 8260C	1/31/13	2/1/13 12:57	MFF
1,2-Dibromoethane (EDB)	ND	0.00039	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:57	MFF
Dibromomethane	ND	0.00077	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:57	MFF
1,2-Dichlorobenzene	ND	0.00077	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:57	MFF
1,3-Dichlorobenzene	ND	0.00077	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:57	MFF
1,4-Dichlorobenzene	ND	0.00077	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:57	MFF
trans-1,4-Dichloro-2-butene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:57	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.0077	mg/Kg dry	1	L-03	SW-846 8260C	1/31/13	2/1/13 12:57	MFF
1,1-Dichloroethane	ND	0.00077	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:57	MFF
1,2-Dichloroethane	ND	0.00077	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:57	MFF
1,1-Dichloroethylene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:57	MFF
cis-1,2-Dichloroethylene	ND	0.00077	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:57	MFF
trans-1,2-Dichloroethylene	ND	0.00077	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:57	MFF
1,2-Dichloropropane	ND	0.00077	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:57	MFF
1,3-Dichloropropane	ND	0.00039	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:57	MFF
2,2-Dichloropropane	ND	0.00077	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:57	MFF
1,1-Dichloropropene	ND	0.00077	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:57	MFF
cis-1,3-Dichloropropene	ND	0.00039	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:57	MFF
trans-1,3-Dichloropropene	ND	0.00039	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:57	MFF
Ethylbenzene	ND	0.00077	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:57	MFF
Hexachlorobutadiene	ND	0.00077	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:57	MFF
2-Hexanone (MBK)	ND	0.0077	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:57	MFF
Isopropylbenzene (Cumene)	ND	0.00077	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:57	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.00077	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:57	MFF



Project Location: Mystic, CT

Sample Description:

Work Order: 13A0744

Date Received: 1/29/2013

Field Sample #: 1273852

Sampled: 1/28/2013 14:42

Sample ID: 13A0744-34

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:57	MFF
Methylene Chloride	ND	0.0077	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:57	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.0077	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:57	MFF
Naphthalene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:57	MFF
n-Propylbenzene	ND	0.00077	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:57	MFF
Styrene	ND	0.00077	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:57	MFF
1,1,1,2-Tetrachloroethane	ND	0.00077	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:57	MFF
1,1,2,2-Tetrachloroethane	ND	0.00039	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:57	MFF
Tetrachloroethylene	ND	0.00077	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:57	MFF
Tetrahydrofuran	ND	0.0039	mg/Kg dry	1	V-16	SW-846 8260C	1/31/13	2/1/13 12:57	MFF
Toluene	ND	0.00077	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:57	MFF
1,2,3-Trichlorobenzene	ND	0.00077	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:57	MFF
1,2,4-Trichlorobenzene	ND	0.00077	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:57	MFF
1,1,1-Trichloroethane	ND	0.00077	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:57	MFF
1,1,2-Trichloroethane	ND	0.00077	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:57	MFF
Trichloroethylene	ND	0.00077	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:57	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0039	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:57	MFF
1,2,3-Trichloropropane	ND	0.00077	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:57	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0039	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:57	MFF
1,2,4-Trimethylbenzene	ND	0.00077	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:57	MFF
1,3,5-Trimethylbenzene	ND	0.00077	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:57	MFF
Vinyl Chloride	ND	0.0039	mg/Kg dry	1	L-03	SW-846 8260C	1/31/13	2/1/13 12:57	MFF
m+p Xylene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:57	MFF
o-Xylene	ND	0.00077	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 12:57	MFF
Surrogates		% Recovery	Recovery Limits		Flag				
1,2-Dichloroethane-d4		115	70-130					2/1/13 12:57	
Toluene-d8		100	70-130					2/1/13 12:57	
4-Bromofluorobenzene		96.6	70-130					2/1/13 12:57	



Project Location: Mystic, CT

Sample Description:

Work Order: 13A0744

Date Received: 1/29/2013

Field Sample #: 1273852

Sampled: 1/28/2013 14:42

Sample ID: 13A0744-34

Sample Matrix: Soil

## Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.17	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 20:02	BGL
Acenaphthylene	ND	0.17	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 20:02	BGL
Anthracene	ND	0.17	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 20:02	BGL
Benzo(a)anthracene	ND	0.17	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 20:02	BGL
Benzo(a)pyrene	ND	0.17	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 20:02	BGL
Benzo(b)fluoranthene	ND	0.17	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 20:02	BGL
Benzo(g,h,i)perylene	ND	0.17	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 20:02	BGL
Benzo(k)fluoranthene	ND	0.17	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 20:02	BGL
Chrysene	ND	0.17	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 20:02	BGL
Dibenz(a,h)anthracene	ND	0.17	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 20:02	BGL
Fluoranthene	ND	0.17	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 20:02	BGL
Fluorene	ND	0.17	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 20:02	BGL
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 20:02	BGL
2-Methylnaphthalene	ND	0.17	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 20:02	BGL
Naphthalene	ND	0.17	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 20:02	BGL
Phenanthrene	ND	0.17	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 20:02	BGL
Pyrene	ND	0.17	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 20:02	BGL
Surrogates	% Recovery	Recovery Limits	Flag						
Nitrobenzene-d5	76.4	30-130						2/4/13 20:02	
2-Fluorobiphenyl	84.2	30-130						2/4/13 20:02	
Terphenyl-d14	101	30-130						2/4/13 20:02	



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

Project Location: Mystic, CT

Sample Description:

Work Order: 13A0744

Date Received: 1/29/2013

Sampled: 1/28/2013 14:42

Field Sample #: 1273852

Sample ID: 13A0744-34

Sample Matrix: Soil

#### Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	ND	10	mg/Kg dry	1		CTDEP ETPH	2/2/13	2/6/13 0:22	SCS
Surrogates	% Recovery		Recovery Limits		Flag				
o-Terphenyl	75.6		50-150			2/6/13 0:22			



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

Project Location: Mystic, CT

Sample Description:

Work Order: 13A0744

Date Received: 1/29/2013

Sampled: 1/28/2013 14:42

Field Sample #: 1273852

Sample ID: 13A0744-34

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	96.4		% Wt	1		SM 2540G	1/30/13	1/31/13 11:35	CWB



Project Location: Mystic, CT

Sample Description:

Work Order: 13A0744

Date Received: 1/29/2013

Field Sample #: 1273929

Sampled: 1/28/2013 15:00

Sample ID: 13A0744-35

Sample Matrix: Ground Water

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	5.0	µg/L	1		SW-846 8260C	1/31/13	1/31/13 16:01	LBD
Acrylonitrile	ND	2.0	µg/L	1		SW-846 8260C	1/31/13	1/31/13 16:01	LBD
Benzene	ND	0.50	µg/L	1		SW-846 8260C	1/31/13	1/31/13 16:01	LBD
Bromobenzene	ND	0.50	µg/L	1		SW-846 8260C	1/31/13	1/31/13 16:01	LBD
Bromodichloromethane	ND	2.0	µg/L	1		SW-846 8260C	1/31/13	1/31/13 16:01	LBD
Bromoform	ND	0.50	µg/L	1		SW-846 8260C	1/31/13	1/31/13 16:01	LBD
Bromomethane	ND	0.50	µg/L	1		SW-846 8260C	1/31/13	1/31/13 16:01	LBD
2-Butanone (MEK)	ND	5.0	µg/L	1		SW-846 8260C	1/31/13	1/31/13 16:01	LBD
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	1/31/13	1/31/13 16:01	LBD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	1/31/13	1/31/13 16:01	LBD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	1/31/13	1/31/13 16:01	LBD
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260C	1/31/13	1/31/13 16:01	LBD
Carbon Tetrachloride	ND	0.50	µg/L	1		SW-846 8260C	1/31/13	1/31/13 16:01	LBD
Chlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	1/31/13	1/31/13 16:01	LBD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	1/31/13	1/31/13 16:01	LBD
Chloroethane	ND	0.50	µg/L	1		SW-846 8260C	1/31/13	1/31/13 16:01	LBD
Chloroform	ND	0.50	µg/L	1		SW-846 8260C	1/31/13	1/31/13 16:01	LBD
Chloromethane	ND	0.50	µg/L	1	L-03, V-05	SW-846 8260C	1/31/13	1/31/13 16:01	LBD
2-Chlorotoluene	ND	0.50	µg/L	1		SW-846 8260C	1/31/13	1/31/13 16:01	LBD
4-Chlorotoluene	ND	0.50	µg/L	1		SW-846 8260C	1/31/13	1/31/13 16:01	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	1.0	µg/L	1		SW-846 8260C	1/31/13	1/31/13 16:01	LBD
1,2-Dibromoethane (EDB)	ND	1.0	µg/L	1		SW-846 8260C	1/31/13	1/31/13 16:01	LBD
Dibromomethane	ND	0.50	µg/L	1		SW-846 8260C	1/31/13	1/31/13 16:01	LBD
1,2-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	1/31/13	1/31/13 16:01	LBD
1,3-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	1/31/13	1/31/13 16:01	LBD
1,4-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	1/31/13	1/31/13 16:01	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1	L-03	SW-846 8260C	1/31/13	1/31/13 16:01	LBD
Dichlorodifluoromethane (Freon 12)	ND	0.50	µg/L	1		SW-846 8260C	1/31/13	1/31/13 16:01	LBD
1,1-Dichloroethane	ND	0.50	µg/L	1		SW-846 8260C	1/31/13	1/31/13 16:01	LBD
1,2-Dichloroethane	ND	0.50	µg/L	1		SW-846 8260C	1/31/13	1/31/13 16:01	LBD
1,1-Dichloroethylene	ND	0.50	µg/L	1		SW-846 8260C	1/31/13	1/31/13 16:01	LBD
cis-1,2-Dichloroethylene	ND	0.50	µg/L	1		SW-846 8260C	1/31/13	1/31/13 16:01	LBD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	1/31/13	1/31/13 16:01	LBD
1,2-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	1/31/13	1/31/13 16:01	LBD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	1/31/13	1/31/13 16:01	LBD
2,2-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	1/31/13	1/31/13 16:01	LBD
1,1-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	1/31/13	1/31/13 16:01	LBD
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	1/31/13	1/31/13 16:01	LBD
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	1/31/13	1/31/13 16:01	LBD
Ethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	1/31/13	1/31/13 16:01	LBD
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260C	1/31/13	1/31/13 16:01	LBD
2-Hexanone (MBK)	ND	5.0	µg/L	1		SW-846 8260C	1/31/13	1/31/13 16:01	LBD
Isopropylbenzene (Cumene)	ND	0.50	µg/L	1		SW-846 8260C	1/31/13	1/31/13 16:01	LBD
p-Isopropyltoluene (p-Cymene)	ND	0.50	µg/L	1		SW-846 8260C	1/31/13	1/31/13 16:01	LBD



Project Location: Mystic, CT

Sample Description:

Work Order: 13A0744

Date Received: 1/29/2013

Field Sample #: 1273929

Sampled: 1/28/2013 15:00

Sample ID: 13A0744-35

Sample Matrix: Ground Water

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.50	µg/L	1		SW-846 8260C	1/31/13	1/31/13 16:01	LBD
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	1/31/13	1/31/13 16:01	LBD
4-Methyl-2-pentanone (MIBK)	ND	5.0	µg/L	1		SW-846 8260C	1/31/13	1/31/13 16:01	LBD
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	1/31/13	1/31/13 16:01	LBD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	1/31/13	1/31/13 16:01	LBD
Styrene	ND	1.0	µg/L	1		SW-846 8260C	1/31/13	1/31/13 16:01	LBD
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	1/31/13	1/31/13 16:01	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	1/31/13	1/31/13 16:01	LBD
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	1/31/13	1/31/13 16:01	LBD
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	1/31/13	1/31/13 16:01	LBD
Toluene	ND	1.0	µg/L	1		SW-846 8260C	1/31/13	1/31/13 16:01	LBD
1,2,3-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	1/31/13	1/31/13 16:01	LBD
1,2,4-Trichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	1/31/13	1/31/13 16:01	LBD
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	1/31/13	1/31/13 16:01	LBD
1,1,2-Trichloroethane	ND	0.50	µg/L	1		SW-846 8260C	1/31/13	1/31/13 16:01	LBD
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	1/31/13	1/31/13 16:01	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	1/31/13	1/31/13 16:01	LBD
1,2,3-Trichloropropane	ND	0.50	µg/L	1		SW-846 8260C	1/31/13	1/31/13 16:01	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	µg/L	1		SW-846 8260C	1/31/13	1/31/13 16:01	LBD
1,2,4-Trimethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	1/31/13	1/31/13 16:01	LBD
1,3,5-Trimethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	1/31/13	1/31/13 16:01	LBD
Vinyl Chloride	ND	1.0	µg/L	1		SW-846 8260C	1/31/13	1/31/13 16:01	LBD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	1/31/13	1/31/13 16:01	LBD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	1/31/13	1/31/13 16:01	LBD
Surrogates	% Recovery	Recovery Limits	Flag						
1,2-Dichloroethane-d4	98.7	70-130							
Toluene-d8	99.7	70-130							
4-Bromofluorobenzene	93.2	70-130							



Project Location: Mystic, CT

Sample Description:

Work Order: 13A0744

Date Received: 1/29/2013

Field Sample #: 1273929

Sampled: 1/28/2013 15:00

Sample ID: 13A0744-35

Sample Matrix: Ground Water

## Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene (low)	ND	0.30	µg/L	1		SW-846 8270D	2/1/13	2/4/13 14:13	BGL
Acenaphthylene (low)	ND	0.30	µg/L	1		SW-846 8270D	2/1/13	2/4/13 14:13	BGL
Anthracene (low)	ND	0.20	µg/L	1		SW-846 8270D	2/1/13	2/4/13 14:13	BGL
Benzo(a)anthracene (low)	ND	0.050	µg/L	1	B-05	SW-846 8270D	2/1/13	2/4/13 14:13	BGL
Benzo(a)pyrene (low)	ND	0.10	µg/L	1		SW-846 8270D	2/1/13	2/4/13 14:13	BGL
Benzo(b)fluoranthene (low)	ND	0.050	µg/L	1	B-05	SW-846 8270D	2/1/13	2/4/13 14:13	BGL
Benzo(g,h,i)perylene (low)	ND	0.50	µg/L	1		SW-846 8270D	2/1/13	2/4/13 14:13	BGL
Benzo(k)fluoranthene (low)	ND	0.20	µg/L	1		SW-846 8270D	2/1/13	2/4/13 14:13	BGL
Chrysene (low)	ND	0.20	µg/L	1		SW-846 8270D	2/1/13	2/4/13 14:13	BGL
Dibenz(a,h)anthracene (low)	ND	0.20	µg/L	1		SW-846 8270D	2/1/13	2/4/13 14:13	BGL
Fluoranthene (low)	ND	0.50	µg/L	1		SW-846 8270D	2/1/13	2/4/13 14:13	BGL
Fluorene (low)	ND	1.0	µg/L	1		SW-846 8270D	2/1/13	2/4/13 14:13	BGL
Indeno(1,2,3-cd)pyrene (low)	ND	0.20	µg/L	1		SW-846 8270D	2/1/13	2/4/13 14:13	BGL
2-Methylnaphthalene (low)	ND	1.0	µg/L	1		SW-846 8270D	2/1/13	2/4/13 14:13	BGL
Naphthalene (low)	ND	1.0	µg/L	1		SW-846 8270D	2/1/13	2/4/13 14:13	BGL
Phenanthrene (low)	ND	0.050	µg/L	1	B-05	SW-846 8270D	2/1/13	2/4/13 14:13	BGL
Pyrene (low)	ND	1.0	µg/L	1		SW-846 8270D	2/1/13	2/4/13 14:13	BGL
Surrogates	% Recovery	Recovery Limits	Flag						
Nitrobenzene-d5 (low)	85.8	30-130							
2-Fluorobiphenyl (low)	82.8	30-130							
Terphenyl-d14 (low)	79.0	30-130							



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

Project Location: Mystic, CT

Sample Description:

Work Order: 13A0744

Date Received: 1/29/2013

Field Sample #: 1273929

Sampled: 1/28/2013 15:00

Sample ID: 13A0744-35

Sample Matrix: Ground Water

**Petroleum Hydrocarbons Analyses**

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	ND	0.075	mg/L	1		CTDEP ETPH	2/4/13	2/5/13 19:22	SCS
Surrogates	% Recovery		Recovery Limits		Flag				
o-Terphenyl	81.0		50-150			2/5/13 19:22			



Project Location: Mystic, CT

Sample Description:

Work Order: 13A0744

Date Received: 1/29/2013

Field Sample #: 1273292 UF

Sampled: 1/28/2013 15:00

Sample ID: 13A0744-36

Sample Matrix: Ground Water

#### Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	2.0	µg/L	5		SW-846 6020A	1/31/13	2/1/13 13:59	AMP
Barium	ND	50	µg/L	5		SW-846 6020A	1/31/13	2/1/13 13:59	AMP
Cadmium	ND	2.5	µg/L	5		SW-846 6020A	1/31/13	2/1/13 13:59	AMP
Chromium	ND	5.0	µg/L	5		SW-846 6020A	1/31/13	2/1/13 13:59	AMP
Copper	ND	25	µg/L	5		SW-846 6020A	1/31/13	2/1/13 13:59	AMP
Lead	ND	5.0	µg/L	5		SW-846 6020A	1/31/13	2/1/13 13:59	AMP
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	1/31/13	2/1/13 12:04	SAJ
Nickel	ND	25	µg/L	5		SW-846 6020A	1/31/13	2/1/13 13:59	AMP
Selenium	ND	25	µg/L	5		SW-846 6020A	1/31/13	2/1/13 13:59	AMP
Silver	ND	2.5	µg/L	5		SW-846 6020A	1/31/13	2/1/13 13:59	AMP
Zinc	ND	50	µg/L	5		SW-846 6020A	1/31/13	2/1/13 13:59	AMP



Project Location: Mystic, CT

Sample Description:

Work Order: 13A0744

Date Received: 1/29/2013

Field Sample #: 1273860

Sampled: 1/28/2013 14:24

Sample ID: 13A0744-37

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.053	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 13:24	MFF
Acrylonitrile	ND	0.0032	mg/Kg dry	1	V-16	SW-846 8260C	1/31/13	2/1/13 13:24	MFF
Benzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 13:24	MFF
Bromobenzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 13:24	MFF
Bromodichloromethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 13:24	MFF
Bromoform	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 13:24	MFF
Bromomethane	ND	0.0053	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 13:24	MFF
2-Butanone (MEK)	ND	0.021	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 13:24	MFF
n-Butylbenzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 13:24	MFF
sec-Butylbenzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 13:24	MFF
tert-Butylbenzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 13:24	MFF
Carbon Disulfide	ND	0.0032	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 13:24	MFF
Carbon Tetrachloride	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 13:24	MFF
Chlorobenzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 13:24	MFF
Chlorodibromomethane	ND	0.00053	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 13:24	MFF
Chloroethane	ND	0.011	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 13:24	MFF
Chloroform	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 13:24	MFF
Chloromethane	ND	0.0053	mg/Kg dry	1	L-03	SW-846 8260C	1/31/13	2/1/13 13:24	MFF
2-Chlorotoluene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 13:24	MFF
4-Chlorotoluene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 13:24	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0011	mg/Kg dry	1	V-16	SW-846 8260C	1/31/13	2/1/13 13:24	MFF
1,2-Dibromoethane (EDB)	ND	0.00053	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 13:24	MFF
Dibromomethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 13:24	MFF
1,2-Dichlorobenzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 13:24	MFF
1,3-Dichlorobenzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 13:24	MFF
1,4-Dichlorobenzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 13:24	MFF
trans-1,4-Dichloro-2-butene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 13:24	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.011	mg/Kg dry	1	L-03	SW-846 8260C	1/31/13	2/1/13 13:24	MFF
1,1-Dichloroethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 13:24	MFF
1,2-Dichloroethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 13:24	MFF
1,1-Dichloroethylene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 13:24	MFF
cis-1,2-Dichloroethylene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 13:24	MFF
trans-1,2-Dichloroethylene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 13:24	MFF
1,2-Dichloropropane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 13:24	MFF
1,3-Dichloropropane	ND	0.00053	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 13:24	MFF
2,2-Dichloropropane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 13:24	MFF
1,1-Dichloropropene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 13:24	MFF
cis-1,3-Dichloropropene	ND	0.00053	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 13:24	MFF
trans-1,3-Dichloropropene	ND	0.00053	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 13:24	MFF
Ethylbenzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 13:24	MFF
Hexachlorobutadiene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 13:24	MFF
2-Hexanone (MBK)	ND	0.011	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 13:24	MFF
Isopropylbenzene (Cumene)	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 13:24	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 13:24	MFF



Project Location: Mystic, CT

Sample Description:

Work Order: 13A0744

Date Received: 1/29/2013

Field Sample #: 1273860

Sampled: 1/28/2013 14:24

Sample ID: 13A0744-37

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 13:24	MFF
Methylene Chloride	ND	0.011	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 13:24	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.011	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 13:24	MFF
Naphthalene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 13:24	MFF
n-Propylbenzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 13:24	MFF
Styrene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 13:24	MFF
1,1,1,2-Tetrachloroethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 13:24	MFF
1,1,2,2-Tetrachloroethane	ND	0.00053	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 13:24	MFF
Tetrachloroethylene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 13:24	MFF
Tetrahydrofuran	ND	0.0053	mg/Kg dry	1	V-16	SW-846 8260C	1/31/13	2/1/13 13:24	MFF
Toluene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 13:24	MFF
1,2,3-Trichlorobenzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 13:24	MFF
1,2,4-Trichlorobenzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 13:24	MFF
1,1,1-Trichloroethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 13:24	MFF
1,1,2-Trichloroethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 13:24	MFF
Trichloroethylene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 13:24	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0053	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 13:24	MFF
1,2,3-Trichloropropane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 13:24	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0053	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 13:24	MFF
1,2,4-Trimethylbenzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 13:24	MFF
1,3,5-Trimethylbenzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 13:24	MFF
Vinyl Chloride	ND	0.0053	mg/Kg dry	1	L-03	SW-846 8260C	1/31/13	2/1/13 13:24	MFF
m+p Xylene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 13:24	MFF
o-Xylene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 13:24	MFF
Surrogates	% Recovery	Recovery Limits	Flag						
1,2-Dichloroethane-d4	115	70-130							
Toluene-d8	98.6	70-130							
4-Bromofluorobenzene	93.2	70-130							



Project Location: Mystic, CT

Sample Description:

Work Order: 13A0744

Date Received: 1/29/2013

Field Sample #: 1273860

Sampled: 1/28/2013 14:24

Sample ID: 13A0744-37

Sample Matrix: Soil

## Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 17:49	CMR
Acenaphthylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 17:49	CMR
Anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 17:49	CMR
Benzo(a)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 17:49	CMR
Benzo(a)pyrene	0.22	0.18	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 17:49	CMR
Benzo(b)fluoranthene	0.26	0.18	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 17:49	CMR
Benzo(g,h,i)perylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 17:49	CMR
Benzo(k)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 17:49	CMR
Chrysene	0.25	0.18	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 17:49	CMR
Dibenz(a,h)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 17:49	CMR
Fluoranthene	0.28	0.18	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 17:49	CMR
Fluorene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 17:49	CMR
Indeno(1,2,3-cd)pyrene	0.27	0.18	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 17:49	CMR
2-Methylnaphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 17:49	CMR
Naphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 17:49	CMR
Phenanthrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 17:49	CMR
Pyrene	0.38	0.18	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 17:49	CMR
Surrogates	% Recovery	Recovery Limits	Flag						
Nitrobenzene-d5	97.1	30-130						2/4/13 17:49	
2-Fluorobiphenyl	89.0	30-130						2/4/13 17:49	
Terphenyl-d14	105	30-130						2/4/13 17:49	



Project Location: Mystic, CT

Sample Description:

Work Order: 13A0744

Date Received: 1/29/2013

Field Sample #: 1273860

Sampled: 1/28/2013 14:24

Sample ID: 13A0744-37

Sample Matrix: Soil

### Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	2/1/13	2/4/13 19:23	MJC
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	2/1/13	2/4/13 19:23	MJC
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	2/1/13	2/4/13 19:23	MJC
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	2/1/13	2/4/13 19:23	MJC
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	2/1/13	2/4/13 19:23	MJC
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	2/1/13	2/4/13 19:23	MJC
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	2/1/13	2/4/13 19:23	MJC
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	2/1/13	2/4/13 19:23	MJC
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	2/1/13	2/4/13 19:23	MJC
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	59.1	30-150							
Decachlorobiphenyl [2]	58.6	30-150							
Tetrachloro-m-xylene [1]	58.5	30-150							
Tetrachloro-m-xylene [2]	59.7	30-150							



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

Project Location: Mystic, CT

Sample Description:

Work Order: 13A0744

Date Received: 1/29/2013

Field Sample #: 1273860

Sampled: 1/28/2013 14:24

Sample ID: 13A0744-37

Sample Matrix: Soil

#### Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	14	11	mg/Kg dry	1		CTDEP ETPH	2/2/13	2/6/13 0:40	SCS
Surrogates	% Recovery		Recovery Limits		Flag				
o-Terphenyl	73.4		50-150			2/6/13 0:40			



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

Project Location: Mystic, CT

Sample Description:

Work Order: 13A0744

Date Received: 1/29/2013

Sampled: 1/28/2013 14:24

Field Sample #: 1273860

Sample ID: 13A0744-37

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	91.0		% Wt	1		SM 2540G	1/30/13	1/31/13 11:35	CWB



### Sample Extraction Data

Prep Method: SW-846 3546-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13A0744-04 [1273853]	B067122	30.2	1.00	02/02/13
13A0744-05 [1273854]	B067122	30.4	1.00	02/02/13
13A0744-06 [1273855]	B067122	30.0	1.00	02/02/13
13A0744-07 [1273856]	B067122	30.2	1.00	02/02/13
13A0744-08 [1273857]	B067122	30.1	1.00	02/02/13
13A0744-09 [1273858]	B067122	30.2	1.00	02/02/13
13A0744-10 [1273859]	B067122	30.2	1.00	02/02/13
13A0744-12 [1273830]	B067122	30.3	1.00	02/02/13
13A0744-13 [1273831]	B067122	15.1	1.00	02/02/13
13A0744-17 [1273835]	B067122	30.1	1.00	02/02/13
13A0744-18 [1273836]	B067122	30.1	1.00	02/02/13
13A0744-19 [1273837]	B067122	30.1	1.00	02/02/13
13A0744-20 [1273838]	B067122	30.4	1.00	02/02/13
13A0744-22 [1273840]	B067122	30.2	1.00	02/02/13
13A0744-23 [1273841]	B067122	30.4	1.00	02/02/13
13A0744-26 [1273844]	B067122	30.4	1.00	02/02/13
13A0744-28 [1273846]	B067122	30.4	1.00	02/02/13
13A0744-31 [1273849]	B067122	30.2	1.00	02/02/13
13A0744-34 [1273852]	B067122	30.2	1.00	02/02/13
13A0744-37 [1273860]	B067122	30.1	1.00	02/02/13

Prep Method: SW-846 3510C-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13A0744-02 [1273930]	B067154	1000	1.00	02/04/13
13A0744-35 [1273929]	B067154	1000	1.00	02/04/13

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
13A0744-04 [1273853]	B066947	01/30/13
13A0744-05 [1273854]	B066947	01/30/13
13A0744-06 [1273855]	B066947	01/30/13
13A0744-07 [1273856]	B066947	01/30/13
13A0744-08 [1273857]	B066947	01/30/13
13A0744-09 [1273858]	B066947	01/30/13
13A0744-10 [1273859]	B066947	01/30/13
13A0744-12 [1273830]	B066947	01/30/13
13A0744-13 [1273831]	B066947	01/30/13
13A0744-17 [1273835]	B066947	01/30/13
13A0744-18 [1273836]	B066947	01/30/13
13A0744-19 [1273837]	B066947	01/30/13
13A0744-20 [1273838]	B066947	01/30/13
13A0744-22 [1273840]	B066947	01/30/13
13A0744-23 [1273841]	B066947	01/30/13
13A0744-26 [1273844]	B066947	01/30/13
13A0744-28 [1273846]	B066947	01/30/13
13A0744-31 [1273849]	B066947	01/30/13
13A0744-34 [1273852]	B066947	01/30/13
13A0744-37 [1273860]	B066947	01/30/13



### Sample Extraction Data

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13A0744-04 [1273853]	B066971	1.06	50.0	01/31/13
13A0744-05 [1273854]	B066971	1.01	50.0	01/31/13
13A0744-06 [1273855]	B066971	1.03	50.0	01/31/13
13A0744-28 [1273846]	B066971	1.05	50.0	01/31/13
13A0744-31 [1273849]	B066971	1.10	50.0	01/31/13

**Prep Method: SW-846 3005A-SW-846 6020A**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13A0744-03 [1273930 UF]	B067031	50.0	50.0	01/31/13
13A0744-36 [1273292 UF]	B067031	50.0	50.0	01/31/13

**Prep Method: SW-846 7470A Prep-SW-846 7470A**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13A0744-03 [1273930 UF]	B066975	6.00	6.00	01/31/13
13A0744-36 [1273292 UF]	B066975	6.00	6.00	01/31/13

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13A0744-31 [1273849]	B067008	0.605	50.0	01/31/13

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13A0744-04 [1273853]	B067040	0.606	50.0	02/01/13
13A0744-05 [1273854]	B067040	0.617	50.0	02/01/13
13A0744-06 [1273855]	B067040	0.618	50.0	02/01/13
13A0744-28 [1273846]	B067040	0.604	50.0	02/01/13

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13A0744-09 [1273858]	B067035	10.3	10.0	02/01/13
13A0744-37 [1273860]	B067035	10.2	10.0	02/01/13

**Prep Method: SW-846 3510C-SW-846 8082A**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13A0744-02 [1273930]	B067108	1000	10.0	02/01/13

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13A0744-01 [1273932]	B067001	5.00	10.0	01/31/13



### Sample Extraction Data

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13A0744-04 [1273853]	B067001	5.00	10.0	01/31/13
13A0744-05 [1273854]	B067001	5.74	10.0	01/31/13
13A0744-06 [1273855]	B067001	5.73	10.0	01/31/13
13A0744-07 [1273856]	B067001	5.73	10.0	01/31/13
13A0744-08 [1273857]	B067001	5.70	10.0	01/31/13
13A0744-09 [1273858]	B067001	4.95	10.0	01/31/13
13A0744-10 [1273859]	B067001	4.67	10.0	01/31/13
13A0744-12 [1273830]	B067001	4.52	10.0	01/31/13
13A0744-13 [1273831]	B067001	6.17	10.0	01/31/13
13A0744-18 [1273836]	B067001	5.22	10.0	01/31/13

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13A0744-13RE1 [1273831]	B067034	5.16	10.0	01/31/13
13A0744-17 [1273835]	B067034	6.07	10.0	01/31/13
13A0744-19 [1273837]	B067034	6.38	10.0	01/31/13
13A0744-20 [1273838]	B067034	11.0	10.0	01/31/13
13A0744-22 [1273840]	B067034	5.98	10.0	01/31/13
13A0744-23 [1273841]	B067034	6.19	10.0	01/31/13
13A0744-26 [1273844]	B067034	11.2	10.0	01/31/13
13A0744-28 [1273846]	B067034	11.2	10.0	01/31/13
13A0744-31 [1273849]	B067034	6.86	10.0	01/31/13
13A0744-34 [1273852]	B067034	13.5	10.0	01/31/13
13A0744-37 [1273860]	B067034	10.4	10.0	01/31/13

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13A0744-02 [1273930]	B066980	5	5.00	01/31/13
13A0744-35 [1273929]	B066980	5	5.00	01/31/13

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13A0744-04 [1273853]	B067115	30.4	1.00	02/02/13
13A0744-05 [1273854]	B067115	30.0	1.00	02/02/13
13A0744-06 [1273855]	B067115	30.2	1.00	02/02/13
13A0744-07 [1273856]	B067115	30.3	1.00	02/02/13
13A0744-08 [1273857]	B067115	30.3	1.00	02/02/13
13A0744-09 [1273858]	B067115	30.2	1.00	02/02/13
13A0744-10 [1273859]	B067115	30.0	1.00	02/02/13
13A0744-12 [1273830]	B067115	30.0	1.00	02/02/13
13A0744-13 [1273831]	B067115	15.0	1.00	02/02/13
13A0744-17 [1273835]	B067115	30.2	1.00	02/02/13
13A0744-18 [1273836]	B067115	30.5	1.00	02/02/13
13A0744-19 [1273837]	B067115	30.3	1.00	02/02/13
13A0744-20 [1273838]	B067115	30.2	1.00	02/02/13
13A0744-22 [1273840]	B067115	30.0	1.00	02/02/13
13A0744-23 [1273841]	B067115	30.0	1.00	02/02/13
13A0744-26 [1273844]	B067115	30.4	1.00	02/02/13



**Sample Extraction Data****Prep Method: SW-846 3546-SW-846 8270D**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13A0744-28 [1273846]	B067115	30.2	1.00	02/02/13
13A0744-31 [1273849]	B067115	30.1	1.00	02/02/13

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13A0744-34 [1273852]	B067172	30.4	1.00	02/04/13
13A0744-37 [1273860]	B067172	30.5	1.00	02/04/13

**Prep Method: SW-846 3510C-SW-846 8270D**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13A0744-02 [1273930]	B067039	1000	1.00	02/01/13
13A0744-35 [1273929]	B067039	1000	1.00	02/01/13

**Prep Method: SW-846 3510C-SW-846 8270D**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13A0744-02RE1 [1273930]	B067253	1000	1.00	02/05/13

**SW-846 9014**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13A0744-04 [1273853]	B067063	1.22	50.0	02/01/13
13A0744-05 [1273854]	B067063	1.72	50.0	02/01/13
13A0744-06 [1273855]	B067063	1.61	50.0	02/01/13

**SW-846 9014**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13A0744-02 [1273930]	B067062	50.0	50.0	02/01/13



**QUALITY CONTROL**
**Volatile Organic Compounds by GC/MS - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B066980 - SW-846 5030B</b>										
<b>Blank (B066980-BLK1)</b>				Prepared & Analyzed: 01/31/13						
Acetone	ND	5.0	µg/L							
Acrylonitrile	ND	2.0	µg/L							
Benzene	ND	0.50	µg/L							
Bromobenzene	ND	0.50	µg/L							
Bromodichloromethane	ND	2.0	µg/L							
Bromoform	ND	0.50	µg/L							
Bromomethane	ND	0.50	µg/L							
2-Butanone (MEK)	ND	5.0	µg/L							
n-Butylbenzene	ND	1.0	µg/L							
sec-Butylbenzene	ND	1.0	µg/L							
tert-Butylbenzene	ND	1.0	µg/L							
Carbon Disulfide	ND	5.0	µg/L							
Carbon Tetrachloride	ND	0.50	µg/L							
Chlorobenzene	ND	0.50	µg/L							
Chlorodibromomethane	ND	0.50	µg/L							
Chloroethane	ND	0.50	µg/L							
Chloroform	ND	0.50	µg/L							
Chloromethane	ND	0.50	µg/L							L-03, V-05
2-Chlorotoluene	ND	0.50	µg/L							
4-Chlorotoluene	ND	0.50	µg/L							
1,2-Dibromo-3-chloropropane (DBCP)	ND	1.0	µg/L							
1,2-Dibromoethane (EDB)	ND	1.0	µg/L							
Dibromomethane	ND	0.50	µg/L							
1,2-Dichlorobenzene	ND	0.50	µg/L							
1,3-Dichlorobenzene	ND	0.50	µg/L							
1,4-Dichlorobenzene	ND	0.50	µg/L							
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L							L-03
Dichlorodifluoromethane (Freon 12)	ND	0.50	µg/L							
1,1-Dichloroethane	ND	0.50	µg/L							
1,2-Dichloroethane	ND	0.50	µg/L							
1,1-Dichloroethylene	ND	0.50	µg/L							
cis-1,2-Dichloroethylene	ND	0.50	µg/L							
trans-1,2-Dichloroethylene	ND	1.0	µg/L							
1,2-Dichloropropane	ND	0.50	µg/L							
1,3-Dichloropropane	ND	0.50	µg/L							
2,2-Dichloropropane	ND	0.50	µg/L							
1,1-Dichloropropene	ND	0.50	µg/L							
cis-1,3-Dichloropropene	ND	0.50	µg/L							
trans-1,3-Dichloropropene	ND	0.50	µg/L							
Ethylbenzene	ND	0.50	µg/L							
Hexachlorobutadiene	ND	0.50	µg/L							
2-Hexanone (MBK)	ND	5.0	µg/L							
Isopropylbenzene (Cumene)	ND	0.50	µg/L							
p-Isopropyltoluene (p-Cymene)	ND	0.50	µg/L							
Methyl tert-Butyl Ether (MTBE)	ND	0.50	µg/L							
Methylene Chloride	ND	5.0	µg/L							
4-Methyl-2-pentanone (MIBK)	ND	5.0	µg/L							
Naphthalene	ND	2.0	µg/L							
n-Propylbenzene	ND	1.0	µg/L							
Styrene	ND	1.0	µg/L							
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L							
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L							



**QUALITY CONTROL**
**Volatile Organic Compounds by GC/MS - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B066980 - SW-846 5030B</b>										
<b>Blank (B066980-BLK1)</b>				Prepared & Analyzed: 01/31/13						
Tetrachloroethylene	ND	1.0	µg/L							
Tetrahydrofuran	ND	10	µg/L							
Toluene	ND	1.0	µg/L							
1,2,3-Trichlorobenzene	ND	1.0	µg/L							
1,2,4-Trichlorobenzene	ND	0.50	µg/L							
1,1,1-Trichloroethane	ND	1.0	µg/L							
1,1,2-Trichloroethane	ND	0.50	µg/L							
Trichloroethylene	ND	1.0	µg/L							
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L							
1,2,3-Trichloropropane	ND	0.50	µg/L							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	µg/L							
1,2,4-Trimethylbenzene	ND	0.50	µg/L							
1,3,5-Trimethylbenzene	ND	0.50	µg/L							
Vinyl Chloride	ND	1.0	µg/L							
m+p Xylene	ND	2.0	µg/L							
o-Xylene	ND	1.0	µg/L							
Surrogate: 1,2-Dichloroethane-d4	24.2		µg/L	25.0		97.0	70-130			
Surrogate: Toluene-d8	24.6		µg/L	25.0		98.6	70-130			
Surrogate: 4-Bromofluorobenzene	23.9		µg/L	25.0		95.4	70-130			
<b>LCS (B066980-BS1)</b>				Prepared & Analyzed: 01/31/13						
Acetone	104	5.0	µg/L	100		104	70-130			
Acrylonitrile	10.6	2.0	µg/L	10.0		106	70-130			
Benzene	10.2	0.50	µg/L	10.0		102	70-130			
Bromobenzene	10.4	0.50	µg/L	10.0		104	70-130			
Bromodichloromethane	9.64	2.0	µg/L	10.0		96.4	70-130			
Bromoform	8.08	0.50	µg/L	10.0		80.8	70-130			
Bromomethane	10.1	0.50	µg/L	10.0		101	70-130			
2-Butanone (MEK)	102	5.0	µg/L	100		102	70-130			
n-Butylbenzene	10.3	1.0	µg/L	10.0		103	70-130			
sec-Butylbenzene	10.8	1.0	µg/L	10.0		108	70-130			
tert-Butylbenzene	11.0	1.0	µg/L	10.0		110	70-130			
Carbon Disulfide	9.31	5.0	µg/L	10.0		93.1	70-130			
Carbon Tetrachloride	9.59	0.50	µg/L	10.0		95.9	70-130			
Chlorobenzene	11.2	0.50	µg/L	10.0		112	70-130			
Chlorodibromomethane	8.99	0.50	µg/L	10.0		89.9	70-130			
Chloroethane	10.3	0.50	µg/L	10.0		103	70-130			
Chloroform	10.7	0.50	µg/L	10.0		107	70-130			
<b>Chloromethane</b>	5.67	0.50	µg/L	10.0		<b>56.7</b> *	70-130			L-03, V-05
2-Chlorotoluene	10.9	0.50	µg/L	10.0		109	70-130			
4-Chlorotoluene	11.1	0.50	µg/L	10.0		111	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	7.50	1.0	µg/L	10.0		75.0	70-130			
1,2-Dibromoethane (EDB)	9.82	1.0	µg/L	10.0		98.2	70-130			
Dibromomethane	11.1	0.50	µg/L	10.0		111	70-130			
1,2-Dichlorobenzene	11.0	0.50	µg/L	10.0		110	70-130			
1,3-Dichlorobenzene	10.8	0.50	µg/L	10.0		108	70-130			
1,4-Dichlorobenzene	9.88	0.50	µg/L	10.0		98.8	70-130			
<b>trans-1,4-Dichloro-2-butene</b>	6.65	2.0	µg/L	10.0		<b>66.5</b> *	70-130			L-03
Dichlorodifluoromethane (Freon 12)	7.92	0.50	µg/L	10.0		79.2	70-130			
1,1-Dichloroethane	10.6	0.50	µg/L	10.0		106	70-130			
1,2-Dichloroethane	10.7	0.50	µg/L	10.0		107	70-130			
1,1-Dichloroethylene	9.77	0.50	µg/L	10.0		97.7	70-130			



**QUALITY CONTROL**
**Volatile Organic Compounds by GC/MS - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B066980 - SW-846 5030B**
**LCS (B066980-BS1)**

Prepared &amp; Analyzed: 01/31/13

cis-1,2-Dichloroethylene	9.63	0.50	µg/L	10.0		96.3	70-130			
trans-1,2-Dichloroethylene	10.6	1.0	µg/L	10.0		106	70-130			
1,2-Dichloropropane	10.0	0.50	µg/L	10.0		100	70-130			
1,3-Dichloropropane	10.2	0.50	µg/L	10.0		102	70-130			
2,2-Dichloropropane	8.02	0.50	µg/L	10.0		80.2	70-130			
1,1-Dichloropropene	10.3	0.50	µg/L	10.0		103	70-130			
cis-1,3-Dichloropropene	7.66	0.50	µg/L	10.0		76.6	70-130			
trans-1,3-Dichloropropene	7.55	0.50	µg/L	10.0		75.5	70-130			
Ethylbenzene	10.3	0.50	µg/L	10.0		103	70-130			
Hexachlorobutadiene	10.6	0.50	µg/L	10.0		106	70-130			
2-Hexanone (MBK)	104	5.0	µg/L	100		104	70-130			
Isopropylbenzene (Cumene)	11.1	0.50	µg/L	10.0		111	70-130			
p-Isopropyltoluene (p-Cymene)	10.8	0.50	µg/L	10.0		108	70-130			
Methyl tert-Butyl Ether (MTBE)	11.2	0.50	µg/L	10.0		112	70-130			
Methylene Chloride	9.72	5.0	µg/L	10.0		97.2	70-130			
4-Methyl-2-pentanone (MIBK)	105	5.0	µg/L	100		105	70-130			
Naphthalene	8.86	2.0	µg/L	10.0		88.6	70-130			
n-Propylbenzene	11.0	1.0	µg/L	10.0		110	70-130			
Styrene	9.98	1.0	µg/L	10.0		99.8	70-130			
1,1,1,2-Tetrachloroethane	9.35	1.0	µg/L	10.0		93.5	70-130			
1,1,2,2-Tetrachloroethane	10.3	0.50	µg/L	10.0		103	70-130			
Tetrachloroethylene	10.9	1.0	µg/L	10.0		109	70-130			
Tetrahydrofuran	9.83	10	µg/L	10.0		98.3	70-130			
Toluene	10.7	1.0	µg/L	10.0		107	70-130			
1,2,3-Trichlorobenzene	7.80	1.0	µg/L	10.0		78.0	70-130			
1,2,4-Trichlorobenzene	7.82	0.50	µg/L	10.0		78.2	70-130			
1,1,1-Trichloroethane	9.34	1.0	µg/L	10.0		93.4	70-130			
1,1,2-Trichloroethane	10.3	0.50	µg/L	10.0		103	70-130			
Trichloroethylene	10.3	1.0	µg/L	10.0		103	70-130			
Trichlorofluoromethane (Freon 11)	12.0	2.0	µg/L	10.0		120	70-130			
1,2,3-Trichloropropane	10.4	0.50	µg/L	10.0		104	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.9	0.50	µg/L	10.0		109	70-130			
1,2,4-Trimethylbenzene	10.2	0.50	µg/L	10.0		102	70-130			
1,3,5-Trimethylbenzene	10.4	0.50	µg/L	10.0		104	70-130			
Vinyl Chloride	9.47	1.0	µg/L	10.0		94.7	70-130			
m+p Xylene	21.6	2.0	µg/L	20.0		108	70-130			
o-Xylene	11.1	1.0	µg/L	10.0		111	70-130			
Surrogate: 1,2-Dichloroethane-d4	24.4		µg/L	25.0		97.8	70-130			
Surrogate: Toluene-d8	25.5		µg/L	25.0		102	70-130			
Surrogate: 4-Bromofluorobenzene	25.0		µg/L	25.0		100	70-130			

**Batch B067001 - SW-846 5035**
**Blank (B067001-BLK1)**

Prepared &amp; Analyzed: 01/31/13

Acetone	ND	0.10	mg/Kg wet							
Acrylonitrile	ND	0.0060	mg/Kg wet							V-16
Benzene	ND	0.0020	mg/Kg wet							
Bromobenzene	ND	0.0020	mg/Kg wet							
Bromodichloromethane	ND	0.0020	mg/Kg wet							
Bromoform	ND	0.0020	mg/Kg wet							
Bromomethane	ND	0.010	mg/Kg wet							
2-Butanone (MEK)	ND	0.040	mg/Kg wet							



**QUALITY CONTROL**
**Volatile Organic Compounds by GC/MS - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B067001 - SW-846 5035</b>										
<b>Blank (B067001-BLK1)</b>				Prepared & Analyzed: 01/31/13						
n-Butylbenzene	ND	0.0020	mg/Kg wet							
sec-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butylbenzene	ND	0.0020	mg/Kg wet							
Carbon Disulfide	ND	0.0060	mg/Kg wet							
Carbon Tetrachloride	ND	0.0020	mg/Kg wet							
Chlorobenzene	ND	0.0020	mg/Kg wet							
Chlorodibromomethane	ND	0.0010	mg/Kg wet							
Chloroethane	ND	0.020	mg/Kg wet							
Chloroform	ND	0.0040	mg/Kg wet							
Chloromethane	ND	0.010	mg/Kg wet							
2-Chlorotoluene	ND	0.0020	mg/Kg wet							
4-Chlorotoluene	ND	0.0020	mg/Kg wet							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg wet							V-16
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet							
Dibromomethane	ND	0.0020	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet							
trans-1,4-Dichloro-2-butene	ND	0.0040	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.020	mg/Kg wet							
1,1-Dichloroethane	ND	0.0020	mg/Kg wet							
1,2-Dichloroethane	ND	0.0020	mg/Kg wet							
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
1,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,3-Dichloropropane	ND	0.0010	mg/Kg wet							
2,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,1-Dichloropropene	ND	0.0020	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
Ethylbenzene	ND	0.0020	mg/Kg wet							
Hexachlorobutadiene	ND	0.0020	mg/Kg wet							
2-Hexanone (MBK)	ND	0.020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet							
Methylene Chloride	ND	0.020	mg/Kg wet							
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet							
Naphthalene	ND	0.0040	mg/Kg wet							
n-Propylbenzene	ND	0.0020	mg/Kg wet							
Styrene	ND	0.0020	mg/Kg wet							
1,1,1,2-Tetrachloroethane	ND	0.0020	mg/Kg wet							
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg wet							
Tetrachloroethylene	ND	0.0020	mg/Kg wet							
Tetrahydrofuran	ND	0.010	mg/Kg wet							V-16
Toluene	ND	0.0020	mg/Kg wet							
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet							
1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet							
Trichloroethylene	ND	0.0020	mg/Kg wet							



**QUALITY CONTROL**
**Volatile Organic Compounds by GC/MS - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B067001 - SW-846 5035</b>										
<b>Blank (B067001-BLK1)</b>				Prepared & Analyzed: 01/31/13						
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet							
1,2,3-Trichloropropane	ND	0.0020	mg/Kg wet							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet							
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg wet							
Vinyl Chloride	ND	0.010	mg/Kg wet							
m+p Xylene	ND	0.0040	mg/Kg wet							
o-Xylene	ND	0.0020	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0560		mg/Kg wet	0.0500		112	70-130			
Surrogate: Toluene-d8	0.0497		mg/Kg wet	0.0500		99.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.0470		mg/Kg wet	0.0500		93.9	70-130			
<b>LCS (B067001-BS1)</b>				Prepared & Analyzed: 01/31/13						
Acetone	0.170	0.10	mg/Kg wet	0.200		84.9	70-130			
Acrylonitrile	0.0181	0.0060	mg/Kg wet	0.0200		90.4	70-130			V-16
Benzene	0.0195	0.0020	mg/Kg wet	0.0200		97.4	70-130			
Bromobenzene	0.0198	0.0020	mg/Kg wet	0.0200		99.1	70-130			
Bromodichloromethane	0.0199	0.0020	mg/Kg wet	0.0200		99.3	70-130			
Bromoform	0.0180	0.0020	mg/Kg wet	0.0200		90.1	70-130			
Bromomethane	0.0248	0.010	mg/Kg wet	0.0200		124	70-130			
2-Butanone (MEK)	0.180	0.040	mg/Kg wet	0.200		89.9	70-130			
n-Butylbenzene	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130			
sec-Butylbenzene	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130			
tert-Butylbenzene	0.0213	0.0020	mg/Kg wet	0.0200		106	70-130			
Carbon Disulfide	0.191	0.0060	mg/Kg wet	0.200		95.3	70-130			
Carbon Tetrachloride	0.0198	0.0020	mg/Kg wet	0.0200		98.9	70-130			
Chlorobenzene	0.0193	0.0020	mg/Kg wet	0.0200		96.7	70-130			
Chlorodibromomethane	0.0195	0.0010	mg/Kg wet	0.0200		97.3	70-130			
Chloroethane	0.0177	0.020	mg/Kg wet	0.0200		88.6	70-130			
Chloroform	0.0202	0.0040	mg/Kg wet	0.0200		101	70-130			
Chloromethane	0.0158	0.010	mg/Kg wet	0.0200		79.0	70-130			
2-Chlorotoluene	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130			
4-Chlorotoluene	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.0187	0.0020	mg/Kg wet	0.0200		93.3	70-130			V-16
1,2-Dibromoethane (EDB)	0.0191	0.0010	mg/Kg wet	0.0200		95.4	70-130			
Dibromomethane	0.0195	0.0020	mg/Kg wet	0.0200		97.3	70-130			
1,2-Dichlorobenzene	0.0205	0.0020	mg/Kg wet	0.0200		103	70-130			
1,3-Dichlorobenzene	0.0200	0.0020	mg/Kg wet	0.0200		100	70-130			
1,4-Dichlorobenzene	0.0196	0.0020	mg/Kg wet	0.0200		98.2	70-130			
trans-1,4-Dichloro-2-butene	0.0195	0.0040	mg/Kg wet	0.0200		97.3	70-130			
Dichlorodifluoromethane (Freon 12)	0.0174	0.020	mg/Kg wet	0.0200		87.1	70-130			
1,1-Dichloroethane	0.0189	0.0020	mg/Kg wet	0.0200		94.4	70-130			
1,2-Dichloroethane	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130			
1,1-Dichloroethylene	0.0171	0.0040	mg/Kg wet	0.0200		85.3	70-130			
cis-1,2-Dichloroethylene	0.0197	0.0020	mg/Kg wet	0.0200		98.4	70-130			
trans-1,2-Dichloroethylene	0.0195	0.0020	mg/Kg wet	0.0200		97.3	70-130			
1,2-Dichloropropane	0.0187	0.0020	mg/Kg wet	0.0200		93.5	70-130			
1,3-Dichloropropane	0.0191	0.0010	mg/Kg wet	0.0200		95.6	70-130			
2,2-Dichloropropane	0.0170	0.0020	mg/Kg wet	0.0200		85.1	70-130			
1,1-Dichloropropene	0.0196	0.0020	mg/Kg wet	0.0200		98.1	70-130			
cis-1,3-Dichloropropene	0.0189	0.0010	mg/Kg wet	0.0200		94.5	70-130			
trans-1,3-Dichloropropene	0.0180	0.0010	mg/Kg wet	0.0200		90.2	70-130			



**QUALITY CONTROL**
**Volatile Organic Compounds by GC/MS - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B067001 - SW-846 5035**
**LCS (B067001-BS1)**

Prepared &amp; Analyzed: 01/31/13

Ethylbenzene	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130			
Hexachlorobutadiene	0.0200	0.0020	mg/Kg wet	0.0200		99.8	70-130			
2-Hexanone (MBK)	0.191	0.020	mg/Kg wet	0.200		95.3	70-130			
Isopropylbenzene (Cumene)	0.0200	0.0020	mg/Kg wet	0.0200		100	70-130			
p-Isopropyltoluene (p-Cymene)	0.0205	0.0020	mg/Kg wet	0.0200		103	70-130			
Methyl tert-Butyl Ether (MTBE)	0.0182	0.0040	mg/Kg wet	0.0200		91.1	70-130			
Methylene Chloride	0.0259	0.020	mg/Kg wet	0.0200		130	70-130			
4-Methyl-2-pentanone (MIBK)	0.196	0.020	mg/Kg wet	0.200		98.0	70-130			
Naphthalene	0.0179	0.0040	mg/Kg wet	0.0200		89.4	70-130			
n-Propylbenzene	0.0199	0.0020	mg/Kg wet	0.0200		99.7	70-130			
Styrene	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130			
1,1,1,2-Tetrachloroethane	0.0205	0.0020	mg/Kg wet	0.0200		102	70-130			
1,1,2,2-Tetrachloroethane	0.0190	0.0010	mg/Kg wet	0.0200		95.2	70-130			
Tetrachloroethylene	0.0182	0.0020	mg/Kg wet	0.0200		90.8	70-130			
Tetrahydrofuran	0.0168	0.010	mg/Kg wet	0.0200		84.0	70-130			V-16
Toluene	0.0178	0.0020	mg/Kg wet	0.0200		89.2	70-130			
1,2,3-Trichlorobenzene	0.0209	0.0020	mg/Kg wet	0.0200		104	70-130			
1,2,4-Trichlorobenzene	0.0189	0.0020	mg/Kg wet	0.0200		94.5	70-130			
1,1,1-Trichloroethane	0.0193	0.0020	mg/Kg wet	0.0200		96.7	70-130			
1,1,2-Trichloroethane	0.0193	0.0020	mg/Kg wet	0.0200		96.6	70-130			
Trichloroethylene	0.0190	0.0020	mg/Kg wet	0.0200		95.2	70-130			
Trichlorofluoromethane (Freon 11)	0.0175	0.010	mg/Kg wet	0.0200		87.4	70-130			
1,2,3-Trichloropropane	0.0195	0.0020	mg/Kg wet	0.0200		97.7	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0180	0.010	mg/Kg wet	0.0200		90.1	70-130			
1,2,4-Trimethylbenzene	0.0215	0.0020	mg/Kg wet	0.0200		107	70-130			
1,3,5-Trimethylbenzene	0.0207	0.0020	mg/Kg wet	0.0200		104	70-130			
Vinyl Chloride	0.0166	0.010	mg/Kg wet	0.0200		83.0	70-130			
m+p Xylene	0.0410	0.0040	mg/Kg wet	0.0400		102	70-130			
o-Xylene	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0552		mg/Kg wet	0.0500		110	70-130			
Surrogate: Toluene-d8	0.0509		mg/Kg wet	0.0500		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.0486		mg/Kg wet	0.0500		97.2	70-130			

**Matrix Spike (B067001-MS1)**

Source: 13A0744-04

Prepared &amp; Analyzed: 01/31/13

Acetone	0.161	0.097	mg/Kg dry	0.193	ND	83.6	70-130			
Acrylonitrile	0.0138	0.0058	mg/Kg dry	0.0193	ND	71.7	70-130			V-16
Benzene	0.0157	0.0019	mg/Kg dry	0.0193	ND	81.4	70-130			
Bromobenzene	0.0147	0.0019	mg/Kg dry	0.0193	ND	76.1	70-130			
Bromodichloromethane	0.0148	0.0019	mg/Kg dry	0.0193	ND	76.9	70-130			
<b>Bromoform</b>	0.0134	0.0019	mg/Kg dry	0.0193	ND	<b>69.2</b> *	70-130			MS-08
Bromomethane	0.0176	0.0097	mg/Kg dry	0.0193	ND	91.4	70-130			
2-Butanone (MEK)	0.140	0.039	mg/Kg dry	0.193	ND	72.3	70-130			
n-Butylbenzene	0.0153	0.0019	mg/Kg dry	0.0193	ND	79.4	70-130			
sec-Butylbenzene	0.0158	0.0019	mg/Kg dry	0.0193	ND	82.0	70-130			
tert-Butylbenzene	0.0170	0.0019	mg/Kg dry	0.0193	ND	88.0	70-130			
<b>Carbon Disulfide</b>	0.0128	0.0058	mg/Kg dry	0.0193	ND	<b>66.3</b> *	70-130			MS-08
Carbon Tetrachloride	0.0160	0.0019	mg/Kg dry	0.0193	ND	83.1	70-130			
Chlorobenzene	0.0146	0.0019	mg/Kg dry	0.0193	ND	75.8	70-130			
Chlorodibromomethane	0.0143	0.00097	mg/Kg dry	0.0193	ND	73.9	70-130			
Chloroethane	0.0150	0.019	mg/Kg dry	0.0193	ND	77.8	70-130			
Chloroform	0.0167	0.0039	mg/Kg dry	0.0193	ND	86.4	70-130			
<b>Chloromethane</b>	0.0126	0.0097	mg/Kg dry	0.0193	ND	<b>65.4</b> *	70-130			MS-08



## QUALITY CONTROL

## Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B067001 - SW-846 5035</b>										
<b>Matrix Spike (B067001-MS1)</b>	<b>Source: 13A0744-04</b>			Prepared & Analyzed: 01/31/13						
2-Chlorotoluene	0.0149	0.0019	mg/Kg dry	0.0193	ND	77.0	70-130			
4-Chlorotoluene	0.0147	0.0019	mg/Kg dry	0.0193	ND	76.3	70-130			
<b>1,2-Dibromo-3-chloropropane (DBCP)</b>	0.0123	0.0019	mg/Kg dry	0.0193	ND	<b>63.6</b>	* 70-130			MS-08, V-16
1,2-Dibromoethane (EDB)	0.0145	0.00097	mg/Kg dry	0.0193	ND	75.2	70-130			MS-08
Dibromomethane	0.0155	0.0019	mg/Kg dry	0.0193	ND	80.5	70-130			
1,2-Dichlorobenzene	0.0151	0.0019	mg/Kg dry	0.0193	ND	78.4	70-130			
1,3-Dichlorobenzene	0.0144	0.0019	mg/Kg dry	0.0193	ND	74.8	70-130			
1,4-Dichlorobenzene	0.0151	0.0019	mg/Kg dry	0.0193	ND	78.0	70-130			
<b>trans-1,4-Dichloro-2-butene</b>	0.0131	0.0039	mg/Kg dry	0.0193	ND	<b>68.0</b>	* 70-130			MS-08
<b>Dichlorodifluoromethane (Freon 12)</b>	0.00969	0.019	mg/Kg dry	0.0193	ND	<b>50.2</b>	* 70-130			MS-08
1,1-Dichloroethane	0.0159	0.0019	mg/Kg dry	0.0193	ND	82.5	70-130			
1,2-Dichloroethane	0.0168	0.0019	mg/Kg dry	0.0193	ND	87.1	70-130			
1,1-Dichloroethylene	0.0139	0.0039	mg/Kg dry	0.0193	ND	72.0	70-130			
cis-1,2-Dichloroethylene	0.0149	0.0019	mg/Kg dry	0.0193	ND	77.3	70-130			
trans-1,2-Dichloroethylene	0.0153	0.0019	mg/Kg dry	0.0193	ND	79.4	70-130			
1,2-Dichloropropane	0.0155	0.0019	mg/Kg dry	0.0193	ND	80.2	70-130			
1,3-Dichloropropane	0.0150	0.00097	mg/Kg dry	0.0193	ND	77.6	70-130			
<b>2,2-Dichloropropane</b>	0.0134	0.0019	mg/Kg dry	0.0193	ND	<b>69.3</b>	* 70-130			MS-08
1,1-Dichloropropene	0.0158	0.0019	mg/Kg dry	0.0193	ND	81.9	70-130			
<b>cis-1,3-Dichloropropene</b>	0.0132	0.00097	mg/Kg dry	0.0193	ND	<b>68.5</b>	* 70-130			MS-08
<b>trans-1,3-Dichloropropene</b>	0.0134	0.00097	mg/Kg dry	0.0193	ND	<b>69.5</b>	* 70-130			MS-08
Ethylbenzene	0.0159	0.0019	mg/Kg dry	0.0193	ND	82.3	70-130			
Hexachlorobutadiene	0.0138	0.0019	mg/Kg dry	0.0193	ND	71.4	70-130			
2-Hexanone (MBK)	0.140	0.019	mg/Kg dry	0.193	ND	72.8	70-130			
Isopropylbenzene (Cumene)	0.0152	0.0019	mg/Kg dry	0.0193	ND	78.6	70-130			
p-Isopropyltoluene (p-Cymene)	0.0168	0.0019	mg/Kg dry	0.0193	ND	86.8	70-130			
Methyl tert-Butyl Ether (MTBE)	0.0155	0.0039	mg/Kg dry	0.0193	ND	80.4	70-130			
Methylene Chloride	0.0220	0.019	mg/Kg dry	0.0193	ND	114	70-130			
4-Methyl-2-pentanone (MIBK)	0.144	0.019	mg/Kg dry	0.193	ND	74.6	70-130			
<b>Naphthalene</b>	0.0114	0.0039	mg/Kg dry	0.0193	ND	<b>59.1</b>	* 70-130			MS-08
n-Propylbenzene	0.0146	0.0019	mg/Kg dry	0.0193	ND	75.4	70-130			
Styrene	0.0153	0.0019	mg/Kg dry	0.0193	ND	79.0	70-130			
1,1,1,2-Tetrachloroethane	0.0159	0.0019	mg/Kg dry	0.0193	ND	82.5	70-130			
<b>1,1,2,2-Tetrachloroethane</b>	0.0122	0.00097	mg/Kg dry	0.0193	ND	<b>63.2</b>	* 70-130			MS-08
Tetrachloroethylene	0.0145	0.0019	mg/Kg dry	0.0193	ND	75.1	70-130			
<b>Tetrahydrofuran</b>	0.0125	0.0097	mg/Kg dry	0.0193	ND	<b>64.6</b>	* 70-130			MS-08, V-16
Toluene	0.0145	0.0019	mg/Kg dry	0.0193	ND	75.2	70-130			
<b>1,2,3-Trichlorobenzene</b>	0.0116	0.0019	mg/Kg dry	0.0193	ND	<b>59.9</b>	* 70-130			MS-08
<b>1,2,4-Trichlorobenzene</b>	0.0109	0.0019	mg/Kg dry	0.0193	ND	<b>56.3</b>	* 70-130			MS-08
1,1,1-Trichloroethane	0.0160	0.0019	mg/Kg dry	0.0193	ND	82.8	70-130			
1,1,2-Trichloroethane	0.0143	0.0019	mg/Kg dry	0.0193	ND	74.2	70-130			
Trichloroethylene	0.0176	0.0019	mg/Kg dry	0.0193	ND	91.2	70-130			
Trichlorofluoromethane (Freon 11)	0.0145	0.0097	mg/Kg dry	0.0193	ND	75.3	70-130			
1,2,3-Trichloropropane	0.0153	0.0019	mg/Kg dry	0.0193	ND	79.3	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0156	0.0097	mg/Kg dry	0.0193	ND	80.8	70-130			
1,2,4-Trimethylbenzene	0.0165	0.0019	mg/Kg dry	0.0193	ND	85.4	70-130			
1,3,5-Trimethylbenzene	0.0150	0.0019	mg/Kg dry	0.0193	ND	77.6	70-130			
<b>Vinyl Chloride</b>	0.0121	0.0097	mg/Kg dry	0.0193	ND	<b>62.8</b>	* 70-130			MS-08
m+p Xylene	0.0319	0.0039	mg/Kg dry	0.0386	ND	82.6	70-130			
o-Xylene	0.0157	0.0019	mg/Kg dry	0.0193	ND	81.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0531		mg/Kg dry	0.0483		110	70-130			



**QUALITY CONTROL**
**Volatile Organic Compounds by GC/MS - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B067001 - SW-846 5035**
**Matrix Spike (B067001-MS1)**
**Source: 13A0744-04**

Prepared &amp; Analyzed: 01/31/13

Surrogate: Toluene-d8	0.0490		mg/Kg dry	0.0483		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.0460		mg/Kg dry	0.0483		95.3	70-130			

**Batch B067034 - SW-846 5035**
**Blank (B067034-BLK1)**

Prepared &amp; Analyzed: 02/01/13

Acetone	ND	0.10	mg/Kg wet							
Acrylonitrile	ND	0.0060	mg/Kg wet							V-16
Benzene	ND	0.0020	mg/Kg wet							
Bromobenzene	ND	0.0020	mg/Kg wet							
Bromodichloromethane	ND	0.0020	mg/Kg wet							
Bromoform	ND	0.0020	mg/Kg wet							
Bromomethane	ND	0.010	mg/Kg wet							
2-Butanone (MEK)	ND	0.040	mg/Kg wet							
n-Butylbenzene	ND	0.0020	mg/Kg wet							
sec-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butylbenzene	ND	0.0020	mg/Kg wet							
Carbon Disulfide	ND	0.0060	mg/Kg wet							
Carbon Tetrachloride	ND	0.0020	mg/Kg wet							
Chlorobenzene	ND	0.0020	mg/Kg wet							
Chlorodibromomethane	ND	0.0010	mg/Kg wet							
Chloroethane	ND	0.020	mg/Kg wet							
Chloroform	ND	0.0040	mg/Kg wet							
Chloromethane	ND	0.010	mg/Kg wet							L-03
2-Chlorotoluene	ND	0.0020	mg/Kg wet							
4-Chlorotoluene	ND	0.0020	mg/Kg wet							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg wet							V-16
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet							
Dibromomethane	ND	0.0020	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet							
trans-1,4-Dichloro-2-butene	ND	0.0040	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.020	mg/Kg wet							L-03
1,1-Dichloroethane	ND	0.0020	mg/Kg wet							
1,2-Dichloroethane	ND	0.0020	mg/Kg wet							
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
1,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,3-Dichloropropane	ND	0.0010	mg/Kg wet							
2,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,1-Dichloropropene	ND	0.0020	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
Ethylbenzene	ND	0.0020	mg/Kg wet							
Hexachlorobutadiene	ND	0.0020	mg/Kg wet							
2-Hexanone (MBK)	ND	0.020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet							
Methylene Chloride	ND	0.020	mg/Kg wet							



# QUALITY CONTROL

## Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B067034 - SW-846 5035</b>										
<b>Blank (B067034-BLK1)</b>				Prepared & Analyzed: 02/01/13						
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet							
Naphthalene	ND	0.0040	mg/Kg wet							
n-Propylbenzene	ND	0.0020	mg/Kg wet							
Styrene	ND	0.0020	mg/Kg wet							
1,1,1,2-Tetrachloroethane	ND	0.0020	mg/Kg wet							
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg wet							
Tetrachloroethylene	ND	0.0020	mg/Kg wet							
Tetrahydrofuran	ND	0.010	mg/Kg wet							V-16
Toluene	ND	0.0020	mg/Kg wet							
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet							
1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet							
Trichloroethylene	ND	0.0020	mg/Kg wet							
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet							
1,2,3-Trichloropropane	ND	0.0020	mg/Kg wet							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet							
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg wet							
Vinyl Chloride	ND	0.010	mg/Kg wet							L-03
m+p Xylene	ND	0.0040	mg/Kg wet							
o-Xylene	ND	0.0020	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0558		mg/Kg wet	0.0500		112	70-130			
Surrogate: Toluene-d8	0.0499		mg/Kg wet	0.0500		99.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.0479		mg/Kg wet	0.0500		95.9	70-130			
<b>LCS (B067034-BS1)</b>				Prepared & Analyzed: 02/01/13						
Acetone	0.150	0.10	mg/Kg wet	0.200		74.8	70-130			
Acrylonitrile	0.0145	0.0060	mg/Kg wet	0.0200		72.7	70-130			V-16
Benzene	0.0176	0.0020	mg/Kg wet	0.0200		87.8	70-130			
Bromobenzene	0.0180	0.0020	mg/Kg wet	0.0200		90.2	70-130			
Bromodichloromethane	0.0166	0.0020	mg/Kg wet	0.0200		83.1	70-130			
Bromoform	0.0161	0.0020	mg/Kg wet	0.0200		80.4	70-130			
Bromomethane	0.0172	0.010	mg/Kg wet	0.0200		85.8	70-130			V-20
2-Butanone (MEK)	0.152	0.040	mg/Kg wet	0.200		76.0	70-130			
n-Butylbenzene	0.0207	0.0020	mg/Kg wet	0.0200		103	70-130			
sec-Butylbenzene	0.0205	0.0020	mg/Kg wet	0.0200		103	70-130			
tert-Butylbenzene	0.0201	0.0020	mg/Kg wet	0.0200		100	70-130			
Carbon Disulfide	0.0154	0.0060	mg/Kg wet	0.0200		77.0	70-130			
Carbon Tetrachloride	0.0190	0.0020	mg/Kg wet	0.0200		95.0	70-130			
Chlorobenzene	0.0173	0.0020	mg/Kg wet	0.0200		86.3	70-130			
Chlorodibromomethane	0.0160	0.0010	mg/Kg wet	0.0200		80.2	70-130			
Chloroethane	0.0174	0.020	mg/Kg wet	0.0200		87.2	70-130			
Chloroform	0.0189	0.0040	mg/Kg wet	0.0200		94.7	70-130			
<b>Chloromethane</b>	0.0138	0.010	mg/Kg wet	0.0200		<b>69.2</b>	70-130	*		L-03
2-Chlorotoluene	0.0186	0.0020	mg/Kg wet	0.0200		92.9	70-130			
4-Chlorotoluene	0.0193	0.0020	mg/Kg wet	0.0200		96.5	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.0154	0.0020	mg/Kg wet	0.0200		77.0	70-130			V-16
1,2-Dibromoethane (EDB)	0.0171	0.0010	mg/Kg wet	0.0200		85.7	70-130			
Dibromomethane	0.0176	0.0020	mg/Kg wet	0.0200		88.1	70-130			
1,2-Dichlorobenzene	0.0190	0.0020	mg/Kg wet	0.0200		95.2	70-130			
1,3-Dichlorobenzene	0.0188	0.0020	mg/Kg wet	0.0200		93.9	70-130			



## QUALITY CONTROL

## Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B067034 - SW-846 5035</b>										
<b>LCS (B067034-BS1)</b>				Prepared & Analyzed: 02/01/13						
1,4-Dichlorobenzene	0.0195	0.0020	mg/Kg wet	0.0200		97.5	70-130			
trans-1,4-Dichloro-2-butene	0.0173	0.0040	mg/Kg wet	0.0200		86.4	70-130			
<b>Dichlorodifluoromethane (Freon 12)</b>	0.0107	0.020	mg/Kg wet	0.0200		<b>53.4</b>	* 70-130			L-03
1,1-Dichloroethane	0.0174	0.0020	mg/Kg wet	0.0200		87.0	70-130			
1,2-Dichloroethane	0.0186	0.0020	mg/Kg wet	0.0200		93.0	70-130			
1,1-Dichloroethylene	0.0161	0.0040	mg/Kg wet	0.0200		80.5	70-130			
cis-1,2-Dichloroethylene	0.0175	0.0020	mg/Kg wet	0.0200		87.5	70-130			
trans-1,2-Dichloroethylene	0.0176	0.0020	mg/Kg wet	0.0200		88.0	70-130			
1,2-Dichloropropane	0.0173	0.0020	mg/Kg wet	0.0200		86.5	70-130			
1,3-Dichloropropane	0.0166	0.0010	mg/Kg wet	0.0200		82.9	70-130			
2,2-Dichloropropane	0.0158	0.0020	mg/Kg wet	0.0200		79.1	70-130			
1,1-Dichloropropene	0.0189	0.0020	mg/Kg wet	0.0200		94.7	70-130			
cis-1,3-Dichloropropene	0.0156	0.0010	mg/Kg wet	0.0200		78.1	70-130			
trans-1,3-Dichloropropene	0.0160	0.0010	mg/Kg wet	0.0200		80.2	70-130			
Ethylbenzene	0.0188	0.0020	mg/Kg wet	0.0200		93.9	70-130			
Hexachlorobutadiene	0.0198	0.0020	mg/Kg wet	0.0200		99.2	70-130			
2-Hexanone (MBK)	0.163	0.020	mg/Kg wet	0.200		81.7	70-130			
Isopropylbenzene (Cumene)	0.0182	0.0020	mg/Kg wet	0.0200		91.2	70-130			
p-Isopropyltoluene (p-Cymene)	0.0207	0.0020	mg/Kg wet	0.0200		104	70-130			
Methyl tert-Butyl Ether (MTBE)	0.0175	0.0040	mg/Kg wet	0.0200		87.7	70-130			
Methylene Chloride	0.0160	0.020	mg/Kg wet	0.0200		80.0	70-130			
4-Methyl-2-pentanone (MIBK)	0.171	0.020	mg/Kg wet	0.200		85.5	70-130			
Naphthalene	0.0157	0.0040	mg/Kg wet	0.0200		78.6	70-130			
n-Propylbenzene	0.0186	0.0020	mg/Kg wet	0.0200		93.0	70-130			
Styrene	0.0185	0.0020	mg/Kg wet	0.0200		92.7	70-130			
1,1,1,2-Tetrachloroethane	0.0181	0.0020	mg/Kg wet	0.0200		90.7	70-130			
1,1,2,2-Tetrachloroethane	0.0173	0.0010	mg/Kg wet	0.0200		86.5	70-130			
Tetrachloroethylene	0.0178	0.0020	mg/Kg wet	0.0200		88.8	70-130			
Tetrahydrofuran	0.0157	0.010	mg/Kg wet	0.0200		78.7	70-130			V-16
Toluene	0.0170	0.0020	mg/Kg wet	0.0200		85.2	70-130			
1,2,3-Trichlorobenzene	0.0189	0.0020	mg/Kg wet	0.0200		94.4	70-130			
1,2,4-Trichlorobenzene	0.0179	0.0020	mg/Kg wet	0.0200		89.6	70-130			
1,1,1-Trichloroethane	0.0182	0.0020	mg/Kg wet	0.0200		91.0	70-130			
1,1,2-Trichloroethane	0.0173	0.0020	mg/Kg wet	0.0200		86.4	70-130			
Trichloroethylene	0.0181	0.0020	mg/Kg wet	0.0200		90.6	70-130			
Trichlorofluoromethane (Freon 11)	0.0162	0.010	mg/Kg wet	0.0200		80.8	70-130			
1,2,3-Trichloropropane	0.0173	0.0020	mg/Kg wet	0.0200		86.7	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0182	0.010	mg/Kg wet	0.0200		90.9	70-130			
1,2,4-Trimethylbenzene	0.0203	0.0020	mg/Kg wet	0.0200		102	70-130			
1,3,5-Trimethylbenzene	0.0191	0.0020	mg/Kg wet	0.0200		95.5	70-130			
<b>Vinyl Chloride</b>	0.0132	0.010	mg/Kg wet	0.0200		<b>66.1</b>	* 70-130			L-03
m+p Xylene	0.0384	0.0040	mg/Kg wet	0.0400		96.0	70-130			
o-Xylene	0.0186	0.0020	mg/Kg wet	0.0200		93.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0560		mg/Kg wet	0.0500		112	70-130			
Surrogate: Toluene-d8	0.0513		mg/Kg wet	0.0500		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.0489		mg/Kg wet	0.0500		97.8	70-130			



**QUALITY CONTROL**
**Semivolatile Organic Compounds by GC/MS - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B067039 - SW-846 3510C</b>										
<b>Blank (B067039-BLK1)</b>				Prepared: 02/01/13 Analyzed: 02/02/13						
Acenaphthene (low)	ND	0.30	µg/L							
Acenaphthylene (low)	ND	0.30	µg/L							
Anthracene (low)	ND	0.20	µg/L							
Benzo(a)anthracene (low)	0.080	0.050	µg/L							B-05
Benzo(a)pyrene (low)	ND	0.10	µg/L							
Benzo(b)fluoranthene (low)	0.090	0.050	µg/L							B-05
Benzo(g,h,i)perylene (low)	ND	0.50	µg/L							
Benzo(k)fluoranthene (low)	ND	0.20	µg/L							
Chrysene (low)	ND	0.20	µg/L							
Dibenz(a,h)anthracene (low)	ND	0.20	µg/L							
Fluoranthene (low)	ND	0.50	µg/L							
Fluorene (low)	ND	1.0	µg/L							
Indeno(1,2,3-cd)pyrene (low)	ND	0.20	µg/L							V-20
2-Methylnaphthalene (low)	ND	1.0	µg/L							
Naphthalene (low)	ND	1.0	µg/L							
Phenanthrene (low)	0.37	0.050	µg/L							B-05
Pyrene (low)	ND	1.0	µg/L							
Surrogate: Nitrobenzene-d5 (low)	83.8		µg/L	100		83.8	30-130			
Surrogate: 2-Fluorobiphenyl (low)	79.2		µg/L	100		79.2	30-130			
Surrogate: Terphenyl-d14 (low)	84.8		µg/L	100		84.8	30-130			
<b>LCS (B067039-BS1)</b>				Prepared: 02/01/13 Analyzed: 02/04/13						
Acenaphthene (low)	80.5	7.5	µg/L	100		80.5	40-140			
Acenaphthylene (low)	81.6	7.5	µg/L	100		81.6	40-140			
Anthracene (low)	82.4	5.0	µg/L	100		82.4	40-140			
Benzo(a)anthracene (low)	84.2	1.2	µg/L	100		84.2	40-140			B
Benzo(a)pyrene (low)	84.4	2.5	µg/L	100		84.4	40-140			
Benzo(b)fluoranthene (low)	88.0	1.2	µg/L	100		88.0	40-140			B
Benzo(g,h,i)perylene (low)	82.3	12	µg/L	100		82.3	40-140			
Benzo(k)fluoranthene (low)	81.0	5.0	µg/L	100		81.0	40-140			
Chrysene (low)	76.6	5.0	µg/L	100		76.6	40-140			
Dibenz(a,h)anthracene (low)	86.0	5.0	µg/L	100		86.0	40-140			
Fluoranthene (low)	77.8	12	µg/L	100		77.8	40-140			
Fluorene (low)	82.2	25	µg/L	100		82.2	40-140			
Indeno(1,2,3-cd)pyrene (low)	87.1	5.0	µg/L	100		87.1	40-140			
2-Methylnaphthalene (low)	68.3	25	µg/L	100		68.3	40-140			
Naphthalene (low)	66.2	25	µg/L	100		66.2	40-140			
Phenanthrene (low)	73.4	1.2	µg/L	100		73.4	40-140			B
Pyrene (low)	80.2	25	µg/L	100		80.2	40-140			
Surrogate: Nitrobenzene-d5 (low)	78.0		µg/L	100		78.0	30-130			
Surrogate: 2-Fluorobiphenyl (low)	78.6		µg/L	100		78.6	30-130			
Surrogate: Terphenyl-d14 (low)	78.6		µg/L	100		78.6	30-130			



**QUALITY CONTROL**
**Semivolatile Organic Compounds by GC/MS - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B067039 - SW-846 3510C**
**LCS Dup (B067039-BSD1)**

Prepared: 02/01/13 Analyzed: 02/04/13

Acenaphthene (low)	86.0	7.5	µg/L	100		86.0	40-140	6.55	20	
Acenaphthylene (low)	87.1	7.5	µg/L	100		87.1	40-140	6.46	20	
Anthracene (low)	88.9	5.0	µg/L	100		88.9	40-140	7.62	20	
Benzo(a)anthracene (low)	90.8	1.2	µg/L	100		90.8	40-140	7.54	20	B
Benzo(a)pyrene (low)	91.2	2.5	µg/L	100		91.2	40-140	7.80	20	
Benzo(b)fluoranthene (low)	95.0	1.2	µg/L	100		95.0	40-140	7.68	20	B
Benzo(g,h,i)perylene (low)	89.0	12	µg/L	100		89.0	40-140	7.82	20	
Benzo(k)fluoranthene (low)	87.0	5.0	µg/L	100		87.0	40-140	7.23	20	
Chrysene (low)	82.3	5.0	µg/L	100		82.3	40-140	7.17	20	
Dibenz(a,h)anthracene (low)	92.2	5.0	µg/L	100		92.2	40-140	7.01	20	
Fluoranthene (low)	85.0	12	µg/L	100		85.0	40-140	8.81	20	
Fluorene (low)	88.4	25	µg/L	100		88.4	40-140	7.36	20	
Indeno(1,2,3-cd)pyrene (low)	94.2	5.0	µg/L	100		94.2	40-140	7.86	50	
2-Methylnaphthalene (low)	73.4	25	µg/L	100		73.4	40-140	7.23	20	
Naphthalene (low)	71.4	25	µg/L	100		71.4	40-140	7.67	20	
Phenanthrene (low)	78.3	1.2	µg/L	100		78.3	40-140	6.50	20	B
Pyrene (low)	85.2	25	µg/L	100		85.2	40-140	5.98	20	
Surrogate: Nitrobenzene-d5 (low)	82.9		µg/L	100		82.9	30-130			
Surrogate: 2-Fluorobiphenyl (low)	83.4		µg/L	100		83.4	30-130			
Surrogate: Terphenyl-d14 (low)	83.2		µg/L	100		83.2	30-130			

**Batch B067115 - SW-846 3546**
**Blank (B067115-BLK1)**

Prepared &amp; Analyzed: 02/02/13

Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Surrogate: Nitrobenzene-d5	3.74		mg/Kg wet	3.33		112	30-130			
Surrogate: 2-Fluorobiphenyl	3.64		mg/Kg wet	3.33		109	30-130			
Surrogate: Terphenyl-d14	4.11		mg/Kg wet	3.33		123	30-130			



**QUALITY CONTROL**
**Semivolatile Organic Compounds by GC/MS - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B067115 - SW-846 3546</b>										
<b>LCS (B067115-BS1)</b>				Prepared & Analyzed: 02/02/13						
Acenaphthene	2.01	0.17	mg/Kg wet	1.67		121	40-140			
Acenaphthylene	2.01	0.17	mg/Kg wet	1.67		121	40-140			
Anthracene	2.04	0.17	mg/Kg wet	1.67		122	40-140			
Benzo(a)anthracene	2.12	0.17	mg/Kg wet	1.67		127	40-140			
Benzo(a)pyrene	2.14	0.17	mg/Kg wet	1.67		128	40-140			
Benzo(b)fluoranthene	2.08	0.17	mg/Kg wet	1.67		125	40-140			
Benzo(g,h,i)perylene	2.13	0.17	mg/Kg wet	1.67		128	40-140			
Benzo(k)fluoranthene	2.12	0.17	mg/Kg wet	1.67		127	40-140			
Chrysene	1.94	0.17	mg/Kg wet	1.67		117	40-140			
Dibenz(a,h)anthracene	2.15	0.17	mg/Kg wet	1.67		129	40-140			
Fluoranthene	2.08	0.17	mg/Kg wet	1.67		125	40-140			
Fluorene	2.10	0.17	mg/Kg wet	1.67		126	40-140			
Indeno(1,2,3-cd)pyrene	2.22	0.17	mg/Kg wet	1.67		133	40-140			
2-Methylnaphthalene	1.99	0.17	mg/Kg wet	1.67		119	40-140			
Naphthalene	1.98	0.17	mg/Kg wet	1.67		119	40-140			
Phenanthrene	2.03	0.17	mg/Kg wet	1.67		122	40-140			
Pyrene	2.18	0.17	mg/Kg wet	1.67		131	40-140			
Surrogate: Nitrobenzene-d5	4.26		mg/Kg wet	3.33		128	30-130			
Surrogate: 2-Fluorobiphenyl	4.00		mg/Kg wet	3.33		120	30-130			
<b>Surrogate: Terphenyl-d14</b>	4.77		mg/Kg wet	3.33		<b>143</b>	* 30-130			S-07
<b>LCS Dup (B067115-BS1)</b>				Prepared & Analyzed: 02/02/13						
Acenaphthene	1.77	0.17	mg/Kg wet	1.67		106	40-140	12.6	30	
Acenaphthylene	1.76	0.17	mg/Kg wet	1.67		106	40-140	13.2	30	
Anthracene	1.82	0.17	mg/Kg wet	1.67		109	40-140	11.3	30	
Benzo(a)anthracene	1.93	0.17	mg/Kg wet	1.67		116	40-140	9.62	30	
Benzo(a)pyrene	1.91	0.17	mg/Kg wet	1.67		114	40-140	11.3	30	
Benzo(b)fluoranthene	1.86	0.17	mg/Kg wet	1.67		112	40-140	11.2	30	
Benzo(g,h,i)perylene	1.89	0.17	mg/Kg wet	1.67		113	40-140	11.9	30	
Benzo(k)fluoranthene	1.83	0.17	mg/Kg wet	1.67		110	40-140	14.9	30	
Chrysene	1.78	0.17	mg/Kg wet	1.67		107	40-140	8.58	30	
Dibenz(a,h)anthracene	1.90	0.17	mg/Kg wet	1.67		114	40-140	12.4	30	
Fluoranthene	1.67	0.17	mg/Kg wet	1.67		100	40-140	22.0	30	
Fluorene	1.90	0.17	mg/Kg wet	1.67		114	40-140	10.0	30	
Indeno(1,2,3-cd)pyrene	1.99	0.17	mg/Kg wet	1.67		119	40-140	11.0	30	
2-Methylnaphthalene	1.83	0.17	mg/Kg wet	1.67		110	40-140	8.43	30	
Naphthalene	1.73	0.17	mg/Kg wet	1.67		104	40-140	13.4	30	
Phenanthrene	1.79	0.17	mg/Kg wet	1.67		107	40-140	12.7	30	
Pyrene	2.25	0.17	mg/Kg wet	1.67		135	40-140	2.90	30	
Surrogate: Nitrobenzene-d5	3.48		mg/Kg wet	3.33		104	30-130			
Surrogate: 2-Fluorobiphenyl	3.40		mg/Kg wet	3.33		102	30-130			
<b>Surrogate: Terphenyl-d14</b>	4.68		mg/Kg wet	3.33		<b>140</b>	* 30-130			S-07



**QUALITY CONTROL**
**Semivolatile Organic Compounds by GC/MS - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B067115 - SW-846 3546**
**Matrix Spike (B067115-MS1)**
**Source: 13A0744-04**

Prepared: 02/02/13 Analyzed: 02/04/13

Acenaphthene	1.82	0.18	mg/Kg dry	1.78	ND	102	40-140			
Acenaphthylene	1.85	0.18	mg/Kg dry	1.78	ND	104	40-140			
Anthracene	1.89	0.18	mg/Kg dry	1.78	ND	106	40-140			
Benzo(a)anthracene	1.98	0.18	mg/Kg dry	1.78	ND	111	40-140			
Benzo(a)pyrene	1.97	0.18	mg/Kg dry	1.78	ND	111	40-140			
Benzo(b)fluoranthene	1.90	0.18	mg/Kg dry	1.78	ND	107	40-140			
Benzo(g,h,i)perylene	1.88	0.18	mg/Kg dry	1.78	ND	106	40-140			
Benzo(k)fluoranthene	1.92	0.18	mg/Kg dry	1.78	ND	108	40-140			
Chrysene	1.87	0.18	mg/Kg dry	1.78	ND	105	40-140			
Dibenz(a,h)anthracene	2.01	0.18	mg/Kg dry	1.78	ND	113	40-140			
Fluoranthene	1.91	0.18	mg/Kg dry	1.78	ND	107	40-140			
Fluorene	1.94	0.18	mg/Kg dry	1.78	ND	109	40-140			
Indeno(1,2,3-cd)pyrene	1.99	0.18	mg/Kg dry	1.78	ND	112	40-140			
2-Methylnaphthalene	1.73	0.18	mg/Kg dry	1.78	ND	97.2	40-140			
Naphthalene	1.70	0.18	mg/Kg dry	1.78	ND	95.9	40-140			
Phenanthrene	1.88	0.18	mg/Kg dry	1.78	ND	106	40-140			
Pyrene	1.90	0.18	mg/Kg dry	1.78	ND	107	40-140			
Surrogate: Nitrobenzene-d5	3.60		mg/Kg dry	3.55		101	30-130			
Surrogate: 2-Fluorobiphenyl	3.59		mg/Kg dry	3.55		101	30-130			
Surrogate: Terphenyl-d14	3.91		mg/Kg dry	3.55		110	30-130			

**Matrix Spike Dup (B067115-MSD1)**
**Source: 13A0744-04**

Prepared: 02/02/13 Analyzed: 02/04/13

Acenaphthene	1.86	0.18	mg/Kg dry	1.78	ND	105	40-140	2.52	30	
Acenaphthylene	1.87	0.18	mg/Kg dry	1.78	ND	105	40-140	1.50	30	
Anthracene	1.87	0.18	mg/Kg dry	1.78	ND	105	40-140	1.11	30	
Benzo(a)anthracene	1.99	0.18	mg/Kg dry	1.78	ND	112	40-140	0.548	30	
Benzo(a)pyrene	1.94	0.18	mg/Kg dry	1.78	ND	109	40-140	1.45	30	
Benzo(b)fluoranthene	1.85	0.18	mg/Kg dry	1.78	ND	104	40-140	2.53	30	
Benzo(g,h,i)perylene	1.89	0.18	mg/Kg dry	1.78	ND	106	40-140	0.541	30	
Benzo(k)fluoranthene	1.82	0.18	mg/Kg dry	1.78	ND	102	40-140	5.48	30	
Chrysene	1.86	0.18	mg/Kg dry	1.78	ND	104	40-140	0.602	30	
Dibenz(a,h)anthracene	2.00	0.18	mg/Kg dry	1.78	ND	112	40-140	0.182	30	
Fluoranthene	1.85	0.18	mg/Kg dry	1.78	ND	104	40-140	2.94	30	
Fluorene	1.90	0.18	mg/Kg dry	1.78	ND	106	40-140	2.27	30	
Indeno(1,2,3-cd)pyrene	2.05	0.18	mg/Kg dry	1.78	ND	115	40-140	2.59	30	
2-Methylnaphthalene	1.73	0.18	mg/Kg dry	1.78	ND	96.8	40-140	0.100	30	
Naphthalene	1.75	0.18	mg/Kg dry	1.78	ND	98.4	40-140	2.89	30	
Phenanthrene	1.87	0.18	mg/Kg dry	1.78	ND	105	40-140	0.805	30	
Pyrene	1.89	0.18	mg/Kg dry	1.78	ND	106	40-140	0.529	30	
Surrogate: Nitrobenzene-d5	3.71		mg/Kg dry	3.57		104	30-130			
Surrogate: 2-Fluorobiphenyl	3.79		mg/Kg dry	3.57		106	30-130			
Surrogate: Terphenyl-d14	3.78		mg/Kg dry	3.57		106	30-130			



**QUALITY CONTROL**
**Semivolatile Organic Compounds by GC/MS - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B067172 - SW-846 3546</b>										
<b>Blank (B067172-BLK1)</b>				Prepared & Analyzed: 02/04/13						
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Surrogate: Nitrobenzene-d5	3.31		mg/Kg wet	3.33		99.4	30-130			
Surrogate: 2-Fluorobiphenyl	3.37		mg/Kg wet	3.33		101	30-130			
<b>Surrogate: Terphenyl-d14</b>	<b>4.38</b>		mg/Kg wet	<b>3.33</b>		<b>131 *</b>	<b>30-130</b>			<b>S-07</b>
<b>LCS (B067172-BS1)</b>				Prepared & Analyzed: 02/04/13						
Acenaphthene	1.71	0.17	mg/Kg wet	1.67		103	40-140			
Acenaphthylene	1.69	0.17	mg/Kg wet	1.67		101	40-140			
Anthracene	1.80	0.17	mg/Kg wet	1.67		108	40-140			
Benzo(a)anthracene	1.74	0.17	mg/Kg wet	1.67		104	40-140			
Benzo(a)pyrene	1.90	0.17	mg/Kg wet	1.67		114	40-140			
Benzo(b)fluoranthene	2.24	0.17	mg/Kg wet	1.67		135	40-140			
Benzo(g,h,i)perylene	0.786	0.17	mg/Kg wet	1.67		47.2	40-140			
Benzo(k)fluoranthene	1.95	0.17	mg/Kg wet	1.67		117	40-140			
Chrysene	1.75	0.17	mg/Kg wet	1.67		105	40-140			
Dibenz(a,h)anthracene	1.04	0.17	mg/Kg wet	1.67		62.5	40-140			
Fluoranthene	1.74	0.17	mg/Kg wet	1.67		105	40-140			
Fluorene	1.74	0.17	mg/Kg wet	1.67		104	40-140			
Indeno(1,2,3-cd)pyrene	1.01	0.17	mg/Kg wet	1.67		60.4	40-140			
2-Methylnaphthalene	1.68	0.17	mg/Kg wet	1.67		101	40-140			
Naphthalene	1.58	0.17	mg/Kg wet	1.67		94.9	40-140			
Phenanthrene	1.85	0.17	mg/Kg wet	1.67		111	40-140			
Pyrene	1.81	0.17	mg/Kg wet	1.67		109	40-140			
Surrogate: Nitrobenzene-d5	3.15		mg/Kg wet	3.33		94.5	30-130			
Surrogate: 2-Fluorobiphenyl	3.39		mg/Kg wet	3.33		102	30-130			
Surrogate: Terphenyl-d14	3.91		mg/Kg wet	3.33		117	30-130			



**QUALITY CONTROL**
**Semivolatile Organic Compounds by GC/MS - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B067172 - SW-846 3546**
**LCS Dup (B067172-BSD1)**

Prepared &amp; Analyzed: 02/04/13

Acenaphthene	1.66	0.17	mg/Kg wet	1.67		99.6	40-140	3.01	30	
Acenaphthylene	1.63	0.17	mg/Kg wet	1.67		97.5	40-140	3.76	30	
Anthracene	1.79	0.17	mg/Kg wet	1.67		107	40-140	0.501	30	
Benzo(a)anthracene	1.74	0.17	mg/Kg wet	1.67		104	40-140	0.211	30	
Benzo(a)pyrene	1.89	0.17	mg/Kg wet	1.67		113	40-140	0.529	30	
Benzo(b)fluoranthene	2.17	0.17	mg/Kg wet	1.67		130	40-140	3.31	30	
Benzo(g,h,i)perylene	0.930	0.17	mg/Kg wet	1.67		55.8	40-140	16.8	30	
Benzo(k)fluoranthene	1.92	0.17	mg/Kg wet	1.67		115	40-140	1.86	30	
Chrysene	1.78	0.17	mg/Kg wet	1.67		107	40-140	1.76	30	
Dibenz(a,h)anthracene	1.17	0.17	mg/Kg wet	1.67		70.4	40-140	12.0	30	
Fluoranthene	1.88	0.17	mg/Kg wet	1.67		113	40-140	7.70	30	
Fluorene	1.72	0.17	mg/Kg wet	1.67		103	40-140	1.33	30	
Indeno(1,2,3-cd)pyrene	1.12	0.17	mg/Kg wet	1.67		67.0	40-140	10.4	30	
2-Methylnaphthalene	1.62	0.17	mg/Kg wet	1.67		97.1	40-140	3.70	30	
Naphthalene	1.52	0.17	mg/Kg wet	1.67		91.0	40-140	4.24	30	
Phenanthrene	1.81	0.17	mg/Kg wet	1.67		108	40-140	2.35	30	
Pyrene	1.80	0.17	mg/Kg wet	1.67		108	40-140	0.869	30	
Surrogate: Nitrobenzene-d5	2.99		mg/Kg wet	3.33		89.6	30-130			
Surrogate: 2-Fluorobiphenyl	3.23		mg/Kg wet	3.33		97.0	30-130			
Surrogate: Terphenyl-d14	3.86		mg/Kg wet	3.33		116	30-130			

**Batch B067253 - SW-846 3510C**
**Blank (B067253-BLK1)**

Prepared: 02/05/13 Analyzed: 02/06/13

Acenaphthene (low)	ND	0.30	µg/L							
Acenaphthylene (low)	ND	0.30	µg/L							
Anthracene (low)	ND	0.20	µg/L							
Benzo(a)anthracene (low)	ND	0.050	µg/L							
Benzo(a)pyrene (low)	ND	0.10	µg/L							
Benzo(b)fluoranthene (low)	ND	0.050	µg/L							
Benzo(g,h,i)perylene (low)	ND	0.50	µg/L							
Benzo(k)fluoranthene (low)	ND	0.20	µg/L							
Chrysene (low)	ND	0.20	µg/L							
Dibenz(a,h)anthracene (low)	ND	0.20	µg/L							
Fluoranthene (low)	ND	0.50	µg/L							
Fluorene (low)	ND	1.0	µg/L							
Indeno(1,2,3-cd)pyrene (low)	ND	0.20	µg/L							
2-Methylnaphthalene (low)	ND	1.0	µg/L							
Naphthalene (low)	ND	1.0	µg/L							
Phenanthrene (low)	ND	0.050	µg/L							
Pyrene (low)	ND	1.0	µg/L							
Surrogate: Nitrobenzene-d5 (low)	82.3		µg/L	100		82.3	30-130			
Surrogate: 2-Fluorobiphenyl (low)	75.2		µg/L	100		75.2	30-130			
Surrogate: Terphenyl-d14 (low)	82.8		µg/L	100		82.8	30-130			



**QUALITY CONTROL**
**Polychlorinated Biphenyls By GC/ECD - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B067035 - SW-846 3546**
**Blank (B067035-BLK1)**

Prepared: 02/01/13 Analyzed: 02/04/13

Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.160		mg/Kg wet	0.200		80.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.157		mg/Kg wet	0.200		78.6	30-150			
Surrogate: Tetrachloro-m-xylene	0.150		mg/Kg wet	0.200		74.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.150		mg/Kg wet	0.200		75.0	30-150			

**LCS (B067035-BS1)**

Prepared: 02/01/13 Analyzed: 02/04/13

Aroclor-1016	0.14	0.10	mg/Kg wet	0.200		70.3	40-140			
Aroclor-1016 [2C]	0.13	0.10	mg/Kg wet	0.200		67.4	40-140			
Aroclor-1260	0.14	0.10	mg/Kg wet	0.200		71.5	40-140			
Aroclor-1260 [2C]	0.14	0.10	mg/Kg wet	0.200		70.8	40-140			
Surrogate: Decachlorobiphenyl	0.121		mg/Kg wet	0.200		60.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.119		mg/Kg wet	0.200		59.4	30-150			
Surrogate: Tetrachloro-m-xylene	0.111		mg/Kg wet	0.200		55.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.113		mg/Kg wet	0.200		56.4	30-150			

**LCS Dup (B067035-BSD1)**

Prepared: 02/01/13 Analyzed: 02/04/13

Aroclor-1016	0.18	0.10	mg/Kg wet	0.200		87.8	40-140	22.1	30	
Aroclor-1016 [2C]	0.17	0.10	mg/Kg wet	0.200		83.5	40-140	21.3	30	
Aroclor-1260	0.17	0.10	mg/Kg wet	0.200		83.9	40-140	16.0	30	
Aroclor-1260 [2C]	0.17	0.10	mg/Kg wet	0.200		86.8	40-140	20.3	30	
Surrogate: Decachlorobiphenyl	0.148		mg/Kg wet	0.200		74.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.150		mg/Kg wet	0.200		75.2	30-150			
Surrogate: Tetrachloro-m-xylene	0.138		mg/Kg wet	0.200		68.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.139		mg/Kg wet	0.200		69.6	30-150			



**QUALITY CONTROL**
**Polychlorinated Biphenyls By GC/ECD - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B067108 - SW-846 3510C**
**Blank (B067108-BLK1)**

Prepared: 02/01/13 Analyzed: 02/04/13

Aroclor-1016	ND	0.20	µg/L							
Aroclor-1016 [2C]	ND	0.20	µg/L							
Aroclor-1221	ND	0.20	µg/L							
Aroclor-1221 [2C]	ND	0.20	µg/L							
Aroclor-1232	ND	0.20	µg/L							
Aroclor-1232 [2C]	ND	0.20	µg/L							
Aroclor-1242	ND	0.20	µg/L							
Aroclor-1242 [2C]	ND	0.20	µg/L							
Aroclor-1248	ND	0.20	µg/L							
Aroclor-1248 [2C]	ND	0.20	µg/L							
Aroclor-1254	ND	0.20	µg/L							
Aroclor-1254 [2C]	ND	0.20	µg/L							
Aroclor-1260	ND	0.20	µg/L							
Aroclor-1260 [2C]	ND	0.20	µg/L							
Aroclor-1262	ND	0.20	µg/L							
Aroclor-1262 [2C]	ND	0.20	µg/L							
Aroclor-1268	ND	0.20	µg/L							
Aroclor-1268 [2C]	ND	0.20	µg/L							
Surrogate: Decachlorobiphenyl	1.41		µg/L	2.00		70.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.43		µg/L	2.00		71.3	30-150			
Surrogate: Tetrachloro-m-xylene	1.41		µg/L	2.00		70.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.41		µg/L	2.00		70.4	30-150			

**LCS (B067108-BS1)**

Prepared: 02/01/13 Analyzed: 02/04/13

Aroclor-1016	0.49	0.20	µg/L	0.500		97.9	40-140			
Aroclor-1016 [2C]	0.45	0.20	µg/L	0.500		90.6	40-140			
Aroclor-1260	0.48	0.20	µg/L	0.500		96.9	40-140			
Aroclor-1260 [2C]	0.44	0.20	µg/L	0.500		88.4	40-140			
Surrogate: Decachlorobiphenyl	1.44		µg/L	2.00		71.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.45		µg/L	2.00		72.6	30-150			
Surrogate: Tetrachloro-m-xylene	1.37		µg/L	2.00		68.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.37		µg/L	2.00		68.3	30-150			

**LCS Dup (B067108-BSD1)**

Prepared: 02/01/13 Analyzed: 02/04/13

Aroclor-1016	0.49	0.20	µg/L	0.500		97.5	40-140	0.436	20	
Aroclor-1016 [2C]	0.46	0.20	µg/L	0.500		92.8	40-140	2.48	20	
Aroclor-1260	0.48	0.20	µg/L	0.500		96.4	40-140	0.532	20	
Aroclor-1260 [2C]	0.45	0.20	µg/L	0.500		89.6	40-140	1.34	20	
Surrogate: Decachlorobiphenyl	1.43		µg/L	2.00		71.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.45		µg/L	2.00		72.5	30-150			
Surrogate: Tetrachloro-m-xylene	1.41		µg/L	2.00		70.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.41		µg/L	2.00		70.5	30-150			



**QUALITY CONTROL**
**Petroleum Hydrocarbons Analyses - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B067122 - SW-846 3546</b>										
<b>Blank (B067122-BLK1)</b>				Prepared: 02/02/13 Analyzed: 02/05/13						
CT ETPH	ND	10	mg/Kg wet							
Surrogate: o-Terphenyl	2.93		mg/Kg wet	3.33		88.0	50-150			
<b>LCS (B067122-BS1)</b>				Prepared: 02/02/13 Analyzed: 02/05/13						
CT ETPH	28.3	10	mg/Kg wet	33.3		84.9	60-120			
Surrogate: o-Terphenyl	2.77		mg/Kg wet	3.33		83.0	50-150			
<b>Matrix Spike (B067122-MS1)</b>				<b>Source: 13A0744-05</b>		Prepared: 02/02/13 Analyzed: 02/06/13				
CT ETPH	69.5	11	mg/Kg dry	35.3	29.5	113	50-150			MS-23
Surrogate: o-Terphenyl	2.01		mg/Kg dry	3.53		56.9	50-150			
<b>Matrix Spike Dup (B067122-MSD1)</b>				<b>Source: 13A0744-05</b>		Prepared: 02/02/13 Analyzed: 02/06/13				
CT ETPH	43.8	11	mg/Kg dry	35.4	29.5	40.4 *	50-150	45.4 *	30	MS-23
Surrogate: o-Terphenyl	2.26		mg/Kg dry	3.54		63.7	50-150			
<b>Batch B067154 - SW-846 3510C</b>										
<b>Blank (B067154-BLK1)</b>				Prepared: 02/04/13 Analyzed: 02/05/13						
CT ETPH	ND	0.075	mg/L							
Surrogate: o-Terphenyl	0.0782		mg/L	0.100		78.2	50-150			
<b>LCS (B067154-BS2)</b>				Prepared: 02/04/13 Analyzed: 02/05/13						
CT ETPH	0.763	0.075	mg/L	1.00		76.3	60-120			
Surrogate: o-Terphenyl	0.0792		mg/L	0.100		79.2	50-150			



**QUALITY CONTROL**
**Metals Analyses (Total) - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B066971 - SW-846 3050B</b>										
<b>Blank (B066971-BLK1)</b>				Prepared: 01/31/13 Analyzed: 02/01/13						
Arsenic	ND	2.5	mg/Kg wet							
Barium	ND	2.5	mg/Kg wet							
Cadmium	ND	0.25	mg/Kg wet							
Chromium	ND	0.50	mg/Kg wet							
Copper	ND	0.50	mg/Kg wet							
Lead	ND	0.75	mg/Kg wet							
Nickel	ND	0.50	mg/Kg wet							
Selenium	ND	5.0	mg/Kg wet							
Silver	ND	0.50	mg/Kg wet							
Zinc	ND	1.0	mg/Kg wet							
<b>LCS (B066971-BS1)</b>				Prepared: 01/31/13 Analyzed: 02/01/13						
Arsenic	101	5.0	mg/Kg wet	94.5		107	82.2-117.5			
Barium	177	5.0	mg/Kg wet	166		107	83.1-116.3			
Cadmium	57.4	0.50	mg/Kg wet	59.9		95.8	84-115.9			
Chromium	74.6	1.0	mg/Kg wet	69.3		108	81.4-118.6			
Copper	85.3	1.0	mg/Kg wet	78.0		109	83.7-116.2			
Lead	92.7	1.5	mg/Kg wet	91.7		101	82.4-117.8			
Nickel	58.2	1.0	mg/Kg wet	56.6		103	82.2-117.8			
Selenium	169	10	mg/Kg wet	159		106	79.2-120.8			
Silver	34.9	1.0	mg/Kg wet	33.9		103	66.4-133.9			
Zinc	141	2.0	mg/Kg wet	137		103	81-119			
<b>LCS Dup (B066971-BSD1)</b>				Prepared: 01/31/13 Analyzed: 02/01/13						
Arsenic	95.8	5.0	mg/Kg wet	94.5		101	82.2-117.5	5.55	30	
Barium	171	5.0	mg/Kg wet	166		103	83.1-116.3	3.81	30	
Cadmium	53.7	0.50	mg/Kg wet	59.9		89.7	84-115.9	6.65	30	
Chromium	72.1	1.0	mg/Kg wet	69.3		104	81.4-118.6	3.35	30	
Copper	79.9	1.0	mg/Kg wet	78.0		102	83.7-116.2	6.62	30	
Lead	89.9	1.5	mg/Kg wet	91.7		98.0	82.4-117.8	3.05	30	
Nickel	56.3	1.0	mg/Kg wet	56.6		99.5	82.2-117.8	3.30	30	
Selenium	159	10	mg/Kg wet	159		100	79.2-120.8	6.04	30	
Silver	33.1	1.0	mg/Kg wet	33.9		97.6	66.4-133.9	5.38	30	
Zinc	134	2.0	mg/Kg wet	137		97.9	81-119	4.71	30	
<b>Duplicate (B066971-DUP1)</b>				<b>Source: 13A0744-04</b>		Prepared: 01/31/13 Analyzed: 02/01/13				
Arsenic	ND	2.5	mg/Kg dry		ND			NC	35	
Barium	31.4	2.5	mg/Kg dry		33.0			5.12	35	
Cadmium	ND	0.25	mg/Kg dry		ND			NC	35	
Chromium	9.22	0.51	mg/Kg dry		8.38			9.56	35	
Copper	5.79	0.51	mg/Kg dry		5.52			4.81	35	
Lead	8.43	0.76	mg/Kg dry		7.51			11.6	35	M-10
Nickel	5.28	0.51	mg/Kg dry		4.53			15.4	35	
Selenium	ND	5.1	mg/Kg dry		ND			NC	35	
Silver	ND	0.51	mg/Kg dry		ND			NC	35	
Zinc	17.9	1.0	mg/Kg dry		18.1			1.28	35	



**QUALITY CONTROL**
**Metals Analyses (Total) - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B066971 - SW-846 3050B**
**MRL Check (B066971-MRL1)**

Prepared: 01/31/13 Analyzed: 02/02/13

<b>Lead</b>	0.874	0.70	mg/Kg wet	0.700		<b>125</b>	*	80-120		M-10
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**Matrix Spike (B066971-MS1)**
**Source: 13A0744-04**

Prepared: 01/31/13 Analyzed: 02/01/13

Arsenic	22.9	2.5	mg/Kg dry	25.0	ND	91.3		75-125		
Barium	55.9	2.5	mg/Kg dry	25.0	33.0	91.4		75-125		
Cadmium	21.1	0.25	mg/Kg dry	25.0	ND	84.4		75-125		
Chromium	32.1	0.50	mg/Kg dry	25.0	8.38	94.8		75-125		
Copper	30.5	0.50	mg/Kg dry	25.0	5.52	99.9		75-125		
Lead	32.1	0.75	mg/Kg dry	25.0	7.51	98.3		75-125		
Nickel	26.8	0.50	mg/Kg dry	25.0	4.53	88.9		75-125		
Selenium	20.7	5.0	mg/Kg dry	25.0	ND	82.9		75-125		
Silver	23.0	0.50	mg/Kg dry	25.0	ND	92.1		75-125		
Zinc	40.0	1.0	mg/Kg dry	25.0	18.1	87.4		75-125		

**Batch B066975 - SW-846 7470A Prep**
**Blank (B066975-BLK1)**

Prepared: 01/31/13 Analyzed: 02/01/13

Mercury	ND	0.00010	mg/L							
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**LCS (B066975-BS1)**

Prepared: 01/31/13 Analyzed: 02/01/13

Mercury	0.00174	0.00010	mg/L	0.00200		86.9		80-120		
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**LCS Dup (B066975-BSD1)**

Prepared: 01/31/13 Analyzed: 02/01/13

Mercury	0.00176	0.00010	mg/L	0.00200		88.1		80-120	1.37	20
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**Duplicate (B066975-DUP1)**
**Source: 13A0744-03**

Prepared: 01/31/13 Analyzed: 02/01/13

Mercury	ND	0.00010	mg/L		ND			NC		20
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**Matrix Spike (B066975-MS1)**
**Source: 13A0744-03**

Prepared: 01/31/13 Analyzed: 02/01/13

Mercury	0.00176	0.00010	mg/L	0.00200	ND	87.8		75-125		
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**Batch B067008 - SW-846 7471**
**Blank (B067008-BLK1)**

Prepared: 01/31/13 Analyzed: 02/01/13

Mercury	ND	0.025	mg/Kg wet							
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**LCS (B067008-BS1)**

Prepared: 01/31/13 Analyzed: 02/01/13

Mercury	3.40	0.33	mg/Kg wet	3.73		91.1		71.7-128.3		
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**LCS Dup (B067008-BSD1)**

Prepared: 01/31/13 Analyzed: 02/01/13

Mercury	3.22	0.33	mg/Kg wet	3.73		86.3		71.7-128.3	5.40	30
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**QUALITY CONTROL**
**Metals Analyses (Total) - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B067008 - SW-846 7471**
**Duplicate (B067008-DUP1)**
**Source: 13A0744-31**

Prepared: 01/31/13 Analyzed: 02/01/13

Mercury	ND	0.027	mg/Kg dry		ND			NC	35	
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**Matrix Spike (B067008-MS1)**
**Source: 13A0744-31**

Prepared: 01/31/13 Analyzed: 02/01/13

Mercury	0.174	0.027	mg/Kg dry	0.180	ND	96.2	75-125			
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**Batch B067031 - SW-846 3005A**
**Blank (B067031-BLK1)**

Prepared: 01/31/13 Analyzed: 02/01/13

Arsenic	ND	2.0	µg/L							
Barium	ND	50	µg/L							
Cadmium	ND	2.5	µg/L							
Chromium	ND	5.0	µg/L							
Copper	ND	25	µg/L							
Lead	ND	5.0	µg/L							
Nickel	ND	25	µg/L							
Selenium	ND	25	µg/L							
Silver	ND	2.5	µg/L							
Zinc	ND	50	µg/L							

**LCS (B067031-BS1)**

Prepared: 01/31/13 Analyzed: 02/01/13

Arsenic	241	2.0	µg/L	250		96.4	80-120			
Barium	240	50	µg/L	250		96.2	80-120			
Cadmium	244	2.5	µg/L	250		97.6	80-120			
Chromium	256	5.0	µg/L	250		103	80-120			
Copper	255	25	µg/L	250		102	80-120			
Lead	250	5.0	µg/L	250		99.9	80-120			
Nickel	253	25	µg/L	250		101	80-120			
Selenium	243	25	µg/L	250		97.0	80-120			
Silver	272	2.5	µg/L	250		109	80-120			
Zinc	259	50	µg/L	250		104	80-120			

**LCS Dup (B067031-BSD1)**

Prepared: 01/31/13 Analyzed: 02/01/13

Arsenic	242	2.0	µg/L	250		96.8	80-120	0.397	20	
Barium	233	50	µg/L	250		93.3	80-120	3.07	20	
Cadmium	243	2.5	µg/L	250		97.3	80-120	0.339	20	
Chromium	261	5.0	µg/L	250		104	80-120	1.64	20	
Copper	247	25	µg/L	250		98.6	80-120	3.34	20	
Lead	247	5.0	µg/L	250		98.8	80-120	1.08	20	
Nickel	248	25	µg/L	250		99.1	80-120	2.25	20	
Selenium	235	25	µg/L	250		93.9	80-120	3.31	20	
Silver	276	2.5	µg/L	250		110	80-120	1.33	20	
Zinc	253	50	µg/L	250		101	80-120	2.57	20	



**QUALITY CONTROL**
**Metals Analyses (Total) - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B067031 - SW-846 3005A**

<b>Duplicate (B067031-DUP1)</b>		<b>Source: 13A0744-03</b>		Prepared: 01/31/13 Analyzed: 02/01/13						
Arsenic	ND	2.0	µg/L		ND			NC	20	
Barium	ND	50	µg/L		ND			NC	20	
Cadmium	ND	2.5	µg/L		ND			NC	20	
Chromium	ND	5.0	µg/L		ND			NC	20	
Copper	ND	25	µg/L		ND			NC	20	
Lead	ND	5.0	µg/L		ND			NC	20	
Nickel	ND	25	µg/L		ND			NC	20	
Selenium	ND	25	µg/L		ND			NC	20	
Silver	ND	2.5	µg/L		ND			NC	20	
Zinc	ND	50	µg/L		ND			NC	20	

<b>Matrix Spike (B067031-MS1)</b>		<b>Source: 13A0744-03</b>		Prepared: 01/31/13 Analyzed: 02/01/13						
Arsenic	241	2.0	µg/L	250	ND	96.3	75-125			
Barium	236	50	µg/L	250	ND	94.4	75-125			
Cadmium	238	2.5	µg/L	250	ND	95.3	75-125			
Chromium	250	5.0	µg/L	250	ND	100	75-125			
Copper	242	25	µg/L	250	ND	96.7	75-125			
Lead	249	5.0	µg/L	250	ND	99.5	75-125			
Nickel	245	25	µg/L	250	ND	98.0	75-125			
Selenium	233	25	µg/L	250	ND	93.2	75-125			
Silver	272	2.5	µg/L	250	ND	109	75-125			
Zinc	257	50	µg/L	250	10.8	98.5	75-125			

**Batch B067040 - SW-846 7471**

<b>Blank (B067040-BLK1)</b>		Prepared: 02/01/13 Analyzed: 02/04/13								
Mercury	ND	0.025	mg/Kg wet							
<b>LCS (B067040-BS1)</b>		Prepared: 02/01/13 Analyzed: 02/04/13								
Mercury	4.30	0.33	mg/Kg wet	4.05		106	71.7-128.3			
<b>LCS Dup (B067040-BSD1)</b>		Prepared: 02/01/13 Analyzed: 02/04/13								
Mercury	3.82	0.33	mg/Kg wet	4.05		94.3	71.7-128.3	11.7	30	
<b>Duplicate (B067040-DUP1)</b>		<b>Source: 13A0744-04</b>		Prepared: 02/01/13 Analyzed: 02/04/13						
Mercury	ND	0.026	mg/Kg dry		ND			NC	35	
<b>Matrix Spike (B067040-MS1)</b>		<b>Source: 13A0744-04</b>		Prepared: 02/01/13 Analyzed: 02/04/13						
Mercury	0.175	0.027	mg/Kg dry	0.177	0.00934	93.7	75-125			



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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B066947 - % Solids</b>										
<b>Duplicate (B066947-DUP2)</b>	<b>Source: 13A0744-04</b>			Prepared: 01/30/13 Analyzed: 01/31/13						
% Solids	93.9		% Wt		93.5			0.427	20	
<b>Batch B067062 - SW-846 9014</b>										
<b>Blank (B067062-BLK1)</b>	Prepared & Analyzed: 02/01/13									
Cyanide	ND	0.010	mg/L							
<b>LCS (B067062-BS1)</b>	Prepared & Analyzed: 02/01/13									
Cyanide	0.59	0.010	mg/L	0.660		89.8	80-120			
<b>LCS Dup (B067062-BSD1)</b>	Prepared & Analyzed: 02/01/13									
Cyanide	0.61	0.010	mg/L	0.660		92.7	80-120	3.19	20	
<b>Batch B067063 - SW-846 9014</b>										
<b>Blank (B067063-BLK1)</b>	Prepared & Analyzed: 02/01/13									
Cyanide	ND	0.50	mg/Kg wet							
<b>LCS (B067063-BS1)</b>	Prepared & Analyzed: 02/01/13									
Cyanide	67	2.4	mg/Kg wet	57.4		116	80-120			
<b>LCS Dup (B067063-BSD1)</b>	Prepared & Analyzed: 02/01/13									
Cyanide	64	2.4	mg/Kg wet	57.5		111	80-120	4.22	20	
<b>Matrix Spike (B067063-MS1)</b>	<b>Source: 13A0744-05</b>			Prepared & Analyzed: 02/01/13						
Cyanide	12	0.36	mg/Kg dry	11.5	ND	105	75-125			
<b>Matrix Spike Dup (B067063-MSD1)</b>	<b>Source: 13A0744-05</b>			Prepared & Analyzed: 02/01/13						
Cyanide	11	0.32	mg/Kg dry	10.1	ND	108	75-125	10.1	35	



# FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
B	Analyte is found in the associated blank as well as in the sample.
B-05	Data is not affected by elevated level in blank since sample(s) result is "Not Detected".
DL-03	Elevated reporting limit due to matrix.
L-03	Laboratory fortified blank/laboratory control sample recovery is outside of control limits. Reported value for this compound is likely to be biased on the low side.
M-10	The reporting limit verification for the AIHA lead program is outside of control limits for this element. Any reported result at or near the detection limit may be biased on the high side.
MS-08	Matrix spike recovery outside of control limits. Possibility of sample matrix effects that lead to a low bias for reported result or non-homogeneous sample aliquots cannot be eliminated.
MS-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.
S-07	One associated surrogate standard recovery is outside of control limits but the other(s) is/are within limits. All recoveries are > 10%.
V-05	Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.
V-16	Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.
V-17	Internal standard area <50% of associated calibration standard internal standard area.
V-20	Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.
Z-01	Sample was re-extracted one day outside of holding time due to phenanthrene contamination in laboratory blank and sample, per CT RCP requirements, both sets of data are reported.



# CERTIFICATIONS

## Certified Analyses included in this Report

Analyte	Certifications
<b>CTDEP ETPH in Soil</b>	
CT ETPH	CT
<b>CTDEP ETPH in Water</b>	
CT ETPH	CT
<b>SW-846 6010C in Soil</b>	
Arsenic	CT,NH,NY,ME,NC,VA
Barium	CT,NH,NY,ME,NC,VA
Cadmium	CT,NH,NY,ME,NC,VA
Chromium	CT,NH,NY,ME,NC,VA
Copper	CT,NH,NY,ME,NC,VA
Lead	CT,NH,NY,AIHA,ME,NC,VA
Nickel	CT,NH,NY,ME,NC,VA
Selenium	CT,NH,NY,ME,NC,VA
Silver	CT,NH,NY,ME,NC,VA
Zinc	CT,NH,NY,ME,NC,VA
<b>SW-846 6020A in Water</b>	
Arsenic	CT,NH,NY,RI,NC,ME,VA
Barium	CT,NH,NY,RI,NC,ME,VA
Cadmium	CT,NH,NY,RI,NC,ME,VA
Chromium	CT,NH,NY,RI,NC,ME,VA
Copper	CT,NH,NY,RI,NC,ME,VA
Lead	CT,NH,NY,RI,NC,ME,VA
Nickel	CT,NH,NY,RI,NC,ME,VA
Selenium	CT,NH,NY,RI,NC,ME,VA
Silver	CT,NH,NY,RI,NC,ME,VA
Zinc	CT,NH,NY,RI,NC,ME,VA
<b>SW-846 7470A in Water</b>	
Mercury	CT,NH,NY,RI,NC,ME,VA
<b>SW-846 7471B in Soil</b>	
Mercury	CT,NH,NY,NC,ME,VA
<b>SW-846 8082A in Soil</b>	
Aroclor-1016	CT,NH,NY,NC,ME,VA
Aroclor-1016 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1221	CT,NH,NY,NC,ME,VA
Aroclor-1221 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1232	CT,NH,NY,NC,ME,VA
Aroclor-1232 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1242	CT,NH,NY,NC,ME,VA
Aroclor-1242 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1248	CT,NH,NY,NC,ME,VA
Aroclor-1248 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1254	CT,NH,NY,NC,ME,VA
Aroclor-1254 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1260	CT,NH,NY,NC,ME,VA
Aroclor-1260 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1262	NC



# CERTIFICATIONS

## Certified Analyses included in this Report

Analyte	Certifications
<b><i>SW-846 8082A in Soil</i></b>	
Aroclor-1262 [2C]	NC
Aroclor-1268	NC
Aroclor-1268 [2C]	NC
<b><i>SW-846 8082A in Water</i></b>	
Aroclor-1016	CT,NH,NY,RI,NC,ME,VA
Aroclor-1016 [2C]	CT,NH,NY,RI,NC,ME,VA
Aroclor-1221	CT,NH,NY,RI,NC,ME,VA
Aroclor-1221 [2C]	CT,NH,NY,RI,NC,ME,VA
Aroclor-1232	CT,NH,NY,RI,NC,ME,VA
Aroclor-1232 [2C]	CT,NH,NY,RI,NC,ME,VA
Aroclor-1242	CT,NH,NY,RI,NC,ME,VA
Aroclor-1242 [2C]	CT,NH,NY,RI,NC,ME,VA
Aroclor-1248	CT,NH,NY,RI,NC,ME,VA
Aroclor-1248 [2C]	CT,NH,NY,RI,NC,ME,VA
Aroclor-1254	CT,NH,NY,RI,NC,ME,VA
Aroclor-1254 [2C]	CT,NH,NY,RI,NC,ME,VA
Aroclor-1260	CT,NH,NY,RI,NC,ME,VA
Aroclor-1260 [2C]	CT,NH,NY,RI,NC,ME,VA
Aroclor-1262	NC
Aroclor-1262 [2C]	NC
Aroclor-1268	NC
Aroclor-1268 [2C]	NC
<b><i>SW-846 8260C in Soil</i></b>	
Acetone	CT,NH,NY,ME
Acrylonitrile	CT,NH,NY,ME
Benzene	CT,NH,NY,ME
Bromobenzene	NH,NY,ME
Bromodichloromethane	CT,NH,NY,ME
Bromoform	CT,NH,NY,ME
Bromomethane	CT,NH,NY,ME
2-Butanone (MEK)	CT,NH,NY,ME
n-Butylbenzene	CT,NH,NY,ME
sec-Butylbenzene	CT,NH,NY,ME
tert-Butylbenzene	CT,NH,NY,ME
Carbon Disulfide	CT,NH,NY,ME
Carbon Tetrachloride	CT,NH,NY,ME
Chlorobenzene	CT,NH,NY,ME
Chlorodibromomethane	CT,NH,NY,ME
Chloroethane	CT,NH,NY,ME
Chloroform	CT,NH,NY,ME
Chloromethane	CT,NH,NY,ME
2-Chlorotoluene	CT,NH,NY,ME
4-Chlorotoluene	CT,NH,NY,ME
Dibromomethane	NH,NY,ME
1,2-Dichlorobenzene	CT,NH,NY,ME
1,3-Dichlorobenzene	CT,NH,NY,ME



# CERTIFICATIONS

## Certified Analyses included in this Report

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



# CERTIFICATIONS

## Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260C in Water</i>	
2-Butanone (MEK)	CT,NH,NY,ME
n-Butylbenzene	NY,ME
sec-Butylbenzene	NY,ME
tert-Butylbenzene	NY,ME
Carbon Disulfide	CT,NH,NY,ME
Carbon Tetrachloride	CT,NH,NY,ME,RI
Chlorobenzene	CT,NH,NY,ME,RI
Chlorodibromomethane	CT,NH,NY,ME,RI
Chloroethane	CT,NH,NY,ME,RI
Chloroform	CT,NH,NY,ME,RI
Chloromethane	CT,NH,NY,ME,RI
2-Chlorotoluene	NY,ME
4-Chlorotoluene	NY,ME
Dibromomethane	NH,NY,ME
1,2-Dichlorobenzene	CT,NY,ME,RI
1,3-Dichlorobenzene	CT,NH,NY,ME,RI
1,4-Dichlorobenzene	CT,NH,NY,ME,RI
trans-1,4-Dichloro-2-butene	NH,NY,ME
Dichlorodifluoromethane (Freon 12)	NH,NY,ME,RI
1,1-Dichloroethane	CT,NH,NY,ME,RI
1,2-Dichloroethane	CT,NH,NY,ME,RI
1,1-Dichloroethylene	CT,NH,NY,ME,RI
cis-1,2-Dichloroethylene	NY,ME
trans-1,2-Dichloroethylene	CT,NH,NY,ME,RI
1,2-Dichloropropane	CT,NH,NY,ME,RI
1,3-Dichloropropane	NY,ME
2,2-Dichloropropane	NH,NY,ME
1,1-Dichloropropene	NH,NY,ME
cis-1,3-Dichloropropene	CT,NH,NY,ME,RI
trans-1,3-Dichloropropene	CT,NH,NY,ME,RI
Ethylbenzene	CT,NH,NY,ME,RI
Hexachlorobutadiene	CT,NH,NY,ME
2-Hexanone (MBK)	CT,NH,NY,ME
Isopropylbenzene (Cumene)	NY,ME
p-Isopropyltoluene (p-Cymene)	CT,NH,NY,ME
Methyl tert-Butyl Ether (MTBE)	CT,NH,NY,ME
Methylene Chloride	CT,NH,NY,ME,RI
4-Methyl-2-pentanone (MIBK)	CT,NH,NY,ME
Naphthalene	NH,NY,ME
n-Propylbenzene	CT,NH,NY,ME
Styrene	CT,NH,NY,ME
1,1,1,2-Tetrachloroethane	CT,NH,NY,ME
1,1,2,2-Tetrachloroethane	CT,NH,NY,ME,RI
Tetrachloroethylene	CT,NH,NY,ME,RI
Toluene	CT,NH,NY,ME,RI
1,2,3-Trichlorobenzene	NH,NY,ME
1,2,4-Trichlorobenzene	CT,NH,NY,ME



# CERTIFICATIONS

## Certified Analyses included in this Report

Analyte	Certifications
<b>SW-846 8260C in Water</b>	
1,1,1-Trichloroethane	CT,NH,NY,ME,RI
1,1,2-Trichloroethane	CT,NH,NY,ME,RI
Trichloroethylene	CT,NH,NY,ME,RI
Trichlorofluoromethane (Freon 11)	CT,NH,NY,ME,RI
1,2,3-Trichloropropane	NH,NY,ME
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	NY
1,2,4-Trimethylbenzene	NY,ME
1,3,5-Trimethylbenzene	NY,ME
Vinyl Chloride	CT,NH,NY,ME,RI
m+p Xylene	CT,NH,NY,ME,RI
o-Xylene	CT,NH,NY,ME,RI
<b>SW-846 8270D in Soil</b>	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA
<b>SW-846 9014 in Soil</b>	
Cyanide	NY,CT,NC,ME,NH,VA
<b>SW-846 9014 in Water</b>	
Cyanide	NY,CT,NH,RI,NC,ME,VA



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

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









**Contest**  
ANALYTICAL LABORATORY

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

**CHAIN OF CUSTODY RECORD**

39 Spruce Street  
East Longmeadow, MA 01028

Company Name: Levee Inc

Telephone: 860-747-181

Address: 100 Northwest Dr

Project # 18H43C01.CC2

Attention: Dave Scott

Client PO# DATA DELIVERY (check at that apply)

Project Location: Merlin CT

Fax # DATA DELIVERY (check at that apply)

Sampled By: L. Boland / T. Hester

Email: dlscott@leveeinc.com

Project Proposal Provided? (for billing purposes)  
☐ Yes ☐ No

Format ☐ PDF ☐ EXCEL ☐ OGIS

Collection ☐ "Enhanced Data Package"

Con. Test Lab ID (Laboratory Use Only)	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix	Sample Date	Analysis Requested
1	1273829	1/28/13	1017		X	S	U	HOLD
2	1273830		1023		X	S	U	HOLD
3	1273831		1026		X	S	U	HOLD
4	1273832		1037		X	S	U	HOLD
5	1273833		1049		X	S	U	HOLD
6	1273834		1051		X	S	U	HOLD
7	1273835		1055		X	S	U	HOLD
8	1273836		1101		X	S	U	HOLD
9	1273837		1107		X	S	U	HOLD
10	1273838				X	S	U	HOLD

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

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

Relinquished by: (signature) [Signature] Date/Time: 1/28/13 11:00

Received by: (signature) [Signature] Date/Time: 1/28/13 11:00

Relinquished by: (signature) [Signature] Date/Time: 1/28/13 11:00

Received by: (signature) [Signature] Date/Time: 1/28/13 11:00

Turnaround Time ☐ 7-Day ☒ 10-Day ☐ Other RUSH

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

Deflection Limit Requirements Massachusetts

Is your project MCP or RCP? ☐ MCP Form Required ☐ RCP Form Required ☐ MA State DW Form Required PWSID # NELAC & AIHA-LAP, LLC

# of Containers 3  
Preservation 0  
Container Code VA A

Dissolved Metals 0  
Field Filtered 0  
Lab to Filter 0

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

\*\*\*Matrix Code: GW=groundwater WW=wastewater DW=drinking water A=soil/solid SL=sediment O=other





05.com

1340744

REC- 04:05:12

# CHAIN OF CUSTODY RECORD

**39 Spruce Street**  
**Eastlongmeadow, MA 01028**

Page 3 of 4

Telephone: 81007476181

Project # 1844501.002

Client PO#

☐ FAX ☒ EMAIL ☐ WEBSITE

Fax # \_\_\_\_\_

Email: [direct@calia.com](mailto:direct@calia.com)

☐ PDf ☐ EXCEL ☐ OGIS  
☐ OTHER

Ending	Composite	Grab	Index
1	100	100	100
2	100	100	100
3	100	100	100
4	100	100	100
5	100	100	100
6	100	100	100
7	100	100	100
8	100	100	100
9	100	100	100
10	100	100	100
11	100	100	100
12	100	100	100
13	100	100	100
14	100	100	100
15	100	100	100
16	100	100	100
17	100	100	100
18	100	100	100
19	100	100	100
20	100	100	100
21	100	100	100
22	100	100	100
23	100	100	100
24	100	100	100
25	100	100	100
26	100	100	100
27	100	100	100
28	100	100	100
29	100	100	100
30	100	100	100
31	100	100	100
32	100	100	100
33	100	100	100
34	100	100	100
35	100	100	100
36	100	100	100
37	100	100	100
38	100	100	100
39	100	100	100
40	100	100	100
41	100	100	100
42	100	100	100
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90	100	100	100
91	100	100	100
92	100	100	100
93	100	100	100
94	100	100	100
95	100	100	100
96	100	100	100
97	100		

11/16		X	S
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1170	X	5
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1122	X	5
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1127  
X  
5

1135		X	5
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1138	X	S
------	---	---

1154	X	5
------	---	---

10201	X	W
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1205	X	3
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1	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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[illegible]

1

**DETECTION LIMIT AND**

10-Day

Connecticut

48-H

Other: \_\_\_\_\_

EXCEPT UNLESS THERE ARE QUESTIONS

☐ Field Filtered  
☐ Lab to Filter

\*\*\*Cont. Code:  
A-amber glass  
G-glass  
P-plastic  
CR-crystal

V=Vol  
Σ=Summa can  
T=feeder bag

[illegible][illegible][illegible]

	X								I = Na thiosulfate
	X								O = Other 70% WCC
		X	X	X	X				

[illegible]

High M - Medium, Low G - Clean; U - Unknown  
 The following codes are for each test, know if a specific sample  
 is high in concentration in Matrix/Conc. Code Box:  
 -----  
 A = air  
 S = soil/solid  
 SL = sludge

Is your project MCP or RCP? ☐ MCP ☐ RCP ☐ Other \_\_\_\_\_

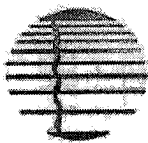
☐ RCP Form Required  
☐ MA State DW Form Required PWSID # \_\_\_\_\_

IN ACCOUNT WITH NEIAC & AIHA-IAP, LLC

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**WBE/DBE Certified**

Page 169 of 179 13A0744\_1 Contest Final 02 06 13 1805 02/06/13 18:07:05





**CONTEST**  
ANALYTICAL LABORATORY

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

**CHAIN OF CUSTODY RECORD**

39 Spruce Street  
East Longmeadow, MA 01028

Page 11 of 14

Company Name: Loare inc

Telephone: 860 747 6181

Address: 100 Northwest Dr

Project # 18HHS01.002

Attention: Pauline A Carter

Client PO#

DATA DELIVERY (check all that apply)  
☐ FAX ☐ EMAIL ☐ WEBSITE

Project Location: Mystic CT

Format: discuss/Chromat

Project Proposal Provided? (for billing purposes)  
☐ Yes ☐ No

PDF OXCEL OGIS  
☐ OTHER

Con-Test Lab ID

Client Sample ID / Description

Collection  
Beginning Date/Time Ending Date/Time

Composite Grab

Matrix Date Date

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

Con-Test Lab ID

Client Sample ID / Description

Collection  
Beginning Date/Time Ending Date/Time

Composite Grab

Matrix Date Date

Matrix Code:  
GW= groundwater  
WW= wastewater  
DW= drinking water  
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Client Sample ID / Description

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Beginning Date/Time Ending Date/Time

Composite Grab

Matrix Date Date

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

IF TURNAROUND TIME STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT-UNTIL THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR





# of Containers
** Preservation
*** Container Con

Dissolved Meta

☐ Field Filtered

☐ Lab to Filter

**\*\*\*Cont. Code:**

A=amber glass  
G=green glass

**ST=sterile**  
**V=vial**

S=summa can  
T=tedlar bag  
O=O:hor

**Journal**

**\*\*Preservation**

$$I = I_{\text{ced}}$$

$$H = H_{\text{cl}}$$

M = Methanol

**N = Nitric Acid**  
**S = Sulfuric Acid**

**B** = Sodium bisulfate

T = Na thiosulfate

0 = Other and

**\*Matrix Code:**

GW = groundwater  
WW = wastewater

**DW** = drinking water  
**A** = air

**S** = soil/solid

SL = single  
O = other

1000

林

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**E/DBE Certified**

**PLETELTY OR**

DOCUMENT





Page 2 of 3

**www.contestilabs.com**

Container Code

**Dissolved Meta**

☐ Field Filtered

Can't find

\*\*\*Cont. Code:\*\*\*

**G=glass**

ST=sterile  
V=vial

T=tedlar bag  
N=Othar

4  
4  
4  
4  
4

### **\*\*Preservation**

I = Iced  
H = Hot

**M** = Methanol

**S** = Sulfuric Acid

**X = Na hydroxide**

T = Na thiosulfate

SECRET

**\*Matrix Code:**

WW = wastewater

DW = drinking water

agoris - 75

**Wiederholungsfragen**

1883

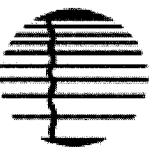
# \_\_\_\_\_  
AUSA LARSON

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**PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT**





**con-test**  
ANALYTICAL LABORATORY

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

**CHAIN OF CUSTODY RECORD**

39 Spruce Street  
East Longmeadow, MA 01028

Page 3 of 4

Company Name: Leavenworth

Telephone: 8007476181

Address: 100 Northwest St

Project # 18H4501.002

City: Melville CT 06002

Attention: Steve Scott

Client PO#

Project Location: Mystic CT

Fax #

Sampled By: K. Walker / J. Harwood

Email: dwscott@leavenworth.com

Project Proposal Provided? (for billing purposes)  
☐ Yes ☐ No

Format: ☐ PDF ☐ EXCEL ☐ GIS  
☐ OTHER

Collection: ☐ "Enhanced Data Package"

Con-Test Lab ID (laboratory use only)

Client Sample ID / Description

Beginning Date/Time Ending Date/Time Composite Grab

\*Matrix Conc. Code

HOLD

HOLD

HOLD

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

\*\*\*Preservation I=iced H=HCL M=Methanol N=Nitric Acid S=Sulfuric Acid B=Sodium bisulfate X=Na hydroxide T=Na thiosulfate O=Other

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

\*\*\*Container Code: # of Containers \*\* Preservation \*\*\*Container Code

Dissolved Metal ☐ Field Filtered ☐ Lab to Filter

ANALYSIS REQUESTED

Is your project MCP or RCP?

MA State DW Form Required PWSID #

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YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR



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



## Sample Receipt Checklist

CLIENT NAME: LOURIRO ENG RECEIVED BY: WJ DATE: 1-29-13

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

2) Does the chain agree with the samples?

If not, explain:

3) Are all the samples in good condition?

If not, explain:

4) How were the samples received:

On Ice ☒ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☒  
Were the samples received in Temperature Compliance of (2-6°C)? Yes ☒ No ☐ N/A

Temperature °C by Temp blank \_\_\_\_\_ Temperature °C by Temp gun 2-3

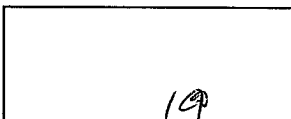
5) Are there Dissolved samples for the lab to filter? Yes ☐ No ☐

Who was notified \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_

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

Who was notified \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_

7) Location where samples are stored:



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

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

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

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

### Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber	10	8 oz amber/clear jar	52
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Air Cassette	
500 mL Plastic	1	Hg/Hopcalite Tube	
250 mL plastic	2	Plastic Bag / Ziploc	
40 mL Vial - type listed below	105	PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments: Samples 33434 do NOT show VIALS on CoC  
Received 1 VIAL (MROH) & 2 VIALS (OI) FOR samples 33434 NOT on CoC

40 mL vials: # HCl 6 # Methanol 33

Doc# 277 # Bisulfate \_\_\_\_\_ # DI Water 66

Rev. 3 May 2012 # Thiosulfate \_\_\_\_\_

Time and Date Frozen: \_\_\_\_\_



**CT ETPH DISCRIMINATION CHECK**

Date Acquired 2/5/13  
Data File Name A0205048.D  
Sample Name ETPH 1500  
Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.23	304096	336854	-10
c - 10	1.58	325252	336854	-3
c - 12	2.31	329603	336854	-2
c - 14	2.98	338443	336854	0
c - 16	3.58	340033	336854	1
c - 18	4.19	350519	336854	4
o-Terphenyl	4.49	404357	336854	
c - 20	4.80	350589	336854	4
c - 22	5.31	351683	336854	4
c - 24	5.75	350884	336854	4
c - 26	6.15	347662	336854	3
c - 28	6.51	340123	336854	1
c - 30	6.84	335626	336854	0
c - 32	7.15	326077	336854	-3
c - 34	7.45	328309	336854	-3
c - 36	7.76	333919	336854	-1

\* One compound allowed %D <= 50%

**Samples**

13A0744-02  
13A0744-35  
13A0745-12  
13A0792-05  
13A0804-01  
13A0804-07



**CT ETPH DISCRIMINATION CHECK**

Date Acquired 2/5/13  
Data File Name A0205090.D  
Sample Name ETPH 1500  
Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.23	274800	299840	-8
c - 10	1.58	289584	299840	-3
c - 12	2.31	292686	299840	-2
c - 14	2.98	302385	299840	1
c - 16	3.58	303816	299840	1
c - 18	4.19	312103	299840	4
o-Terphenyl	4.49	358460	299840	
c - 20	4.80	311466	299840	4
c - 22	5.31	311555	299840	4
c - 24	5.75	309881	299840	3
c - 26	6.15	306701	299840	2
c - 28	6.51	300110	299840	0
c - 30	6.84	297697	299840	-1
c - 32	7.15	290848	299840	-3
c - 34	7.45	294277	299840	-2
c - 36	7.77	299684	299840	0

\* One compound allowed %D <= 50%

**Samples**

13A0744-26  
13A0744-28  
13A0744-31  
13A0744-34  
13A0744-37  
13A0744-04  
13A0744-06@10X  
13A0744-07  
13A0744-08  
13A0744-09  
13A0744-13  
13A0744-17@10X



**CT ETPH DISCRIMINATION CHECK**

Date Acquired 2/5/13  
Data File Name A0205091.D  
Sample Name ETPH 1500  
Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.25	267446	285343	-6
c - 10	1.60	281865	285343	-1
c - 12	2.31	284737	285343	0
c - 14	2.97	292090	285343	2
c - 16	3.57	291059	285343	2
c - 18	4.16	296162	285343	4
o-Terphenyl	4.46	335008	285343	
c - 20	4.77	292870	285343	3
c - 22	5.28	290954	285343	2
c - 24	5.71	288689	285343	1
c - 26	6.11	286046	285343	0
c - 28	6.46	281439	285343	-1
c - 30	6.80	281423	285343	-1
c - 32	7.11	277127	285343	-3
c - 34	7.40	281334	285343	-1
c - 36	7.70	286907	285343	1

\* One compound allowed %D <= 50%

**Samples**

13A0745-10@10X  
13A0744-05  
13A0744-18  
13A0744-19  
13A0744-20  
13A0744-22  
13A0744-23  
13A0744-10  
13A0744-12





## REASONABLE CONFIDENCE PROTOCOL LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

**Laboratory Name:** Con-Test Analytical Laboratory

**Client:** Loureiro Engineering Associates

**Project Location:** Mystic, CT

**Project Number:** 13A0744

**Laboratory Sample ID(s):**

13A0744-01 thru 13A0744-37

**Sample Date(s):**

01/28/2013

**List RCP Methods Used:**

CTDEP ETPH, SW-846 6010C, SW-846 6020A, SW-846 7470A, SW-846 7471B, SW-846 8082A, SW-846 8260C, SW-846 8270D, SW-846 9014

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1A	Were the method specified preservation and holding time requirements met?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
1B	VPH and EPH Methods only: Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3	Were samples received at an appropriate temperature (< 6 degrees C.)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5A	Were reporting limits specified or referenced on the chain-of-custody?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5B	Were these reporting limits met?	<input type="checkbox"/> Yes <input type="checkbox"/> No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence."

This form may not be altered and all questions must be answered.

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

**Authorized Signature:**

**Position:** Laboratory Director

**Printed Name:** Michael A. Erickson

**Date:** 02/06/13

**Name of Laboratory:** Con-Test Analytical Laboratory

**This certification form is to be used for RCP methods only.**



February 6, 2013

David Scotti  
Loureiro Engineering Associates  
100 Northwest Drive  
Plainville, CT 06062

Project Location: Mystic, CT  
Client Job Number:  
Project Number: 18HM301  
Laboratory Work Order Number: 13A0745

Enclosed are results of analyses for samples received by the laboratory on January 29, 2013. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Lisa Worthington", is displayed on a light gray rectangular background.

Lisa A. Worthington  
Project Manager





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

Loureiro Engineering Associates  
100 Northwest Drive  
Plainville, CT 06062  
ATTN: David Scotti

REPORT DATE: 2/6/2013

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 18HM301

#### ANALYTICAL SUMMARY

WORK ORDER NUMBER: 13A0745

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

PROJECT LOCATION: Mystic, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
1273861	13A0745-01	Soil		CTDEP ETPH SM 2540G SW-846 6010C SW-846 7471B SW-846 8260C SW-846 8270D	
1273862	13A0745-02	Soil		SM 2540G SW-846 6010C SW-846 7471B SW-846 8260C SW-846 8270D	
1273863	13A0745-03	Soil		CTDEP ETPH SM 2540G SW-846 6010C SW-846 7471B SW-846 8260C SW-846 8270D	
1273864	13A0745-04	Soil		CTDEP ETPH SM 2540G SW-846 6010C SW-846 7471B SW-846 8260C SW-846 8270D	
1273865	13A0745-05	Soil		CTDEP ETPH SM 2540G SW-846 6010C SW-846 7471B SW-846 8260C SW-846 8270D	
1273866	13A0745-06	Soil		CTDEP ETPH SM 2540G SW-846 6010C SW-846 7471B SW-846 8260C SW-846 8270D	





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

Loureiro Engineering Associates  
100 Northwest Drive  
Plainville, CT 06062  
ATTN: David Scotti

REPORT DATE: 2/6/2013

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 18HM301

#### ANALYTICAL SUMMARY

WORK ORDER NUMBER: 13A0745

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

PROJECT LOCATION: Mystic, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
1273867	13A0745-07	Soil		CTDEP ETPH SM 2540G SW-846 6010C SW-846 7471B SW-846 8082A SW-846 8260C SW-846 8270D	
1273868	13A0745-08	Soil		CTDEP ETPH SM 2540G SW-846 6010C SW-846 7471B SW-846 8082A SW-846 8260C SW-846 8270D	
1273869	13A0745-09	Soil		CTDEP ETPH SM 2540G SW-846 8260C SW-846 8270D	
1273870	13A0745-10	Soil		CTDEP ETPH SM 2540G SW-846 6010C SW-846 7471B SW-846 8260C SW-846 8270D	
1273927	13A0745-12	Equipment Blank Water		CTDEP ETPH SW-846 8082A SW-846 8260C SW-846 8270D	
1273928 UF	13A0745-13	Equipment Blank Water		SW-846 6020A SW-846 7470A	



#### **CASE NARRATIVE SUMMARY**

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

For method 6010, only RCRA 8 metals, Cu, Ni and Zn results were requested and reported.

For method 6020, only RCRA 8 metals, Cu, Ni and Zn results were requested and reported.

For method 8270 only PAHs were requested and reported.



**CTDEP ETPH****Qualifications:**

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

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

13A0745-07[1273867], 13A0745-08[1273868]

**SW-846 6010C****Qualifications:**

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

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

13A0745-01[1273861], 13A0745-02[1273862], 13A0745-03[1273863], 13A0745-04[1273864], 13A0745-05[1273865], 13A0745-06[1273866], 13A0745-07[1273867], 13A0745-08[1273868], 13A0745-10[1273870], B066971-MRL1

**SW-846 8260C****Qualifications:**

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

**Analyte & Samples(s) Qualified:****Chloromethane, Dichlorodifluoromethane (Freon 12), trans-1,4-Dichloro-2-butene, Vinyl Chloride**

13A0745-01[1273861], 13A0745-02[1273862], 13A0745-03[1273863], 13A0745-04[1273864], 13A0745-05[1273865], 13A0745-06[1273866], 13A0745-07[1273867], 13A0745-08[1273868], 13A0745-09[1273869], 13A0745-10[1273870], 13A0745-12[1273927], B066980-BLK1, B066980-BS1, B067034-BLK1, B067034-BS1

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

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

13A0745-12[1273927], B066980-BLK1, B066980-BS1

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

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

13A0745-01[1273861], 13A0745-02[1273862], 13A0745-03[1273863], 13A0745-04[1273864], 13A0745-05[1273865], 13A0745-06[1273866], 13A0745-07[1273867], 13A0745-08[1273868], 13A0745-09[1273869], 13A0745-10[1273870], B067034-BLK1, B067034-BS1

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

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

B067034-BS1

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

Analyte is found in the associated blank as well as in the sample.

**Analyte & Samples(s) Qualified:****Benzo(a)anthracene (low), Benzo(b)fluoranthene (low), Phenanthrene (low)**

B067039-BS1, B067039-BSD1



Data is not affected by elevated level in blank since sample(s) result is "Not Detected".

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

**Benzo(a)anthracene (low), Benzo(b)fluoranthene (low), Phenanthrene (low)**

13A0745-12[1273927], B067039-BLK1

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

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

**Benzo(b)fluoranthene**

B067172-MSD1

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:**

**Terphenyl-d14**

B067172-BLK1

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:**

**Benzo(g,h,i)perylene, Indeno(1,2,3-cd)pyrene, Indeno(1,2,3-cd)pyrene (low)**

13A0745-04[1273864], 13A0745-08[1273868], B067039-BLK1

**SW-846 8260C**

All water reporting limits specified on the chain-of-custody were met except for Acrylonitrile, where the most protective criteria are not met since the laboratory cannot achieve the required RCP calibration criteria at these levels, unless otherwise listed in this narrative.

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

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



Michael A. Erickson  
Laboratory Director



Project Location: Mystic, CT

Sample Description:

Work Order: 13A0745

Date Received: 1/29/2013

Field Sample #: 1273861

Sampled: 1/29/2013 10:30

Sample ID: 13A0745-01

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.095	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 13:52	MFF
Acrylonitrile	ND	0.0057	mg/Kg dry	1	V-16	SW-846 8260C	1/31/13	2/1/13 13:52	MFF
Benzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 13:52	MFF
Bromobenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 13:52	MFF
Bromodichloromethane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 13:52	MFF
Bromoform	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 13:52	MFF
Bromomethane	ND	0.0095	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 13:52	MFF
2-Butanone (MEK)	ND	0.038	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 13:52	MFF
n-Butylbenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 13:52	MFF
sec-Butylbenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 13:52	MFF
tert-Butylbenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 13:52	MFF
Carbon Disulfide	ND	0.0057	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 13:52	MFF
Carbon Tetrachloride	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 13:52	MFF
Chlorobenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 13:52	MFF
Chlorodibromomethane	ND	0.00095	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 13:52	MFF
Chloroethane	ND	0.019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 13:52	MFF
Chloroform	ND	0.0038	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 13:52	MFF
Chloromethane	ND	0.0095	mg/Kg dry	1	L-03	SW-846 8260C	1/31/13	2/1/13 13:52	MFF
2-Chlorotoluene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 13:52	MFF
4-Chlorotoluene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 13:52	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0019	mg/Kg dry	1	V-16	SW-846 8260C	1/31/13	2/1/13 13:52	MFF
1,2-Dibromoethane (EDB)	ND	0.00095	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 13:52	MFF
Dibromomethane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 13:52	MFF
1,2-Dichlorobenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 13:52	MFF
1,3-Dichlorobenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 13:52	MFF
1,4-Dichlorobenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 13:52	MFF
trans-1,4-Dichloro-2-butene	ND	0.0038	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 13:52	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.019	mg/Kg dry	1	L-03	SW-846 8260C	1/31/13	2/1/13 13:52	MFF
1,1-Dichloroethane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 13:52	MFF
1,2-Dichloroethane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 13:52	MFF
1,1-Dichloroethylene	ND	0.0038	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 13:52	MFF
cis-1,2-Dichloroethylene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 13:52	MFF
trans-1,2-Dichloroethylene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 13:52	MFF
1,2-Dichloropropane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 13:52	MFF
1,3-Dichloropropane	ND	0.00095	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 13:52	MFF
2,2-Dichloropropane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 13:52	MFF
1,1-Dichloropropene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 13:52	MFF
cis-1,3-Dichloropropene	ND	0.00095	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 13:52	MFF
trans-1,3-Dichloropropene	ND	0.00095	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 13:52	MFF
Ethylbenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 13:52	MFF
Hexachlorobutadiene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 13:52	MFF
2-Hexanone (MBK)	ND	0.019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 13:52	MFF
Isopropylbenzene (Cumene)	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 13:52	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 13:52	MFF



Project Location: Mystic, CT

Sample Description:

Work Order: 13A0745

Date Received: 1/29/2013

Field Sample #: 1273861

Sampled: 1/29/2013 10:30

Sample ID: 13A0745-01

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0038	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 13:52	MFF
Methylene Chloride	ND	0.019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 13:52	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 13:52	MFF
Naphthalene	ND	0.0038	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 13:52	MFF
n-Propylbenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 13:52	MFF
Styrene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 13:52	MFF
1,1,1,2-Tetrachloroethane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 13:52	MFF
1,1,2,2-Tetrachloroethane	ND	0.00095	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 13:52	MFF
Tetrachloroethylene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 13:52	MFF
Tetrahydrofuran	ND	0.0095	mg/Kg dry	1	V-16	SW-846 8260C	1/31/13	2/1/13 13:52	MFF
Toluene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 13:52	MFF
1,2,3-Trichlorobenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 13:52	MFF
1,2,4-Trichlorobenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 13:52	MFF
1,1,1-Trichloroethane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 13:52	MFF
1,1,2-Trichloroethane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 13:52	MFF
Trichloroethylene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 13:52	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0095	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 13:52	MFF
1,2,3-Trichloropropane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 13:52	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0095	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 13:52	MFF
1,2,4-Trimethylbenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 13:52	MFF
1,3,5-Trimethylbenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 13:52	MFF
Vinyl Chloride	ND	0.0095	mg/Kg dry	1	L-03	SW-846 8260C	1/31/13	2/1/13 13:52	MFF
m+p Xylene	ND	0.0038	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 13:52	MFF
o-Xylene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 13:52	MFF
Surrogates	% Recovery	Recovery Limits	Flag						
1,2-Dichloroethane-d4	115	70-130							
Toluene-d8	99.9	70-130							
4-Bromofluorobenzene	95.5	70-130							



Project Location: Mystic, CT

Sample Description:

Work Order: 13A0745

Date Received: 1/29/2013

Field Sample #: 1273861

Sampled: 1/29/2013 10:30

Sample ID: 13A0745-01

Sample Matrix: Soil

## Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 20:36	BGL
Acenaphthylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 20:36	BGL
Anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 20:36	BGL
Benzo(a)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 20:36	BGL
Benzo(a)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 20:36	BGL
Benzo(b)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 20:36	BGL
Benzo(g,h,i)perylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 20:36	BGL
Benzo(k)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 20:36	BGL
Chrysene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 20:36	BGL
Dibenz(a,h)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 20:36	BGL
Fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 20:36	BGL
Fluorene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 20:36	BGL
Indeno(1,2,3-cd)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 20:36	BGL
2-Methylnaphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 20:36	BGL
Naphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 20:36	BGL
Phenanthrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 20:36	BGL
Pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 20:36	BGL
Surrogates	% Recovery	Recovery Limits	Flag						
Nitrobenzene-d5	66.6	30-130							
2-Fluorobiphenyl	71.4	30-130							
Terphenyl-d14	90.7	30-130							



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Project Location: Mystic, CT

Sample Description:

Work Order: 13A0745

Date Received: 1/29/2013

Field Sample #: 1273861

Sampled: 1/29/2013 10:30

Sample ID: 13A0745-01

Sample Matrix: Soil

#### Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	ND	11	mg/Kg dry	1		CTDEP ETPH	2/4/13	2/5/13 18:47	SCS
Surrogates	% Recovery		Recovery Limits		Flag				
o-Terphenyl	76.7		50-150			2/5/13 18:47			



Project Location: Mystic, CT

Sample Description:

Work Order: 13A0745

Date Received: 1/29/2013

Field Sample #: 1273861

Sampled: 1/29/2013 10:30

Sample ID: 13A0745-01

Sample Matrix: Soil

### Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	2.6	mg/Kg dry	1		SW-846 6010C	1/31/13	2/2/13 0:26	OP
Barium	31	2.6	mg/Kg dry	1		SW-846 6010C	1/31/13	2/2/13 0:26	OP
Cadmium	ND	0.26	mg/Kg dry	1		SW-846 6010C	1/31/13	2/2/13 0:26	OP
Chromium	21	0.51	mg/Kg dry	1		SW-846 6010C	1/31/13	2/2/13 0:26	OP
Copper	32	0.51	mg/Kg dry	1		SW-846 6010C	1/31/13	2/2/13 0:26	OP
Lead	5.8	0.77	mg/Kg dry	1	M-10	SW-846 6010C	1/31/13	2/2/13 18:54	OP
Mercury	ND	0.026	mg/Kg dry	1		SW-846 7471B	1/31/13	2/1/13 12:22	SAJ
Nickel	14	0.51	mg/Kg dry	1		SW-846 6010C	1/31/13	2/2/13 18:54	OP
Selenium	ND	5.1	mg/Kg dry	1		SW-846 6010C	1/31/13	2/2/13 0:26	OP
Silver	ND	0.51	mg/Kg dry	1		SW-846 6010C	1/31/13	2/2/13 0:26	OP
Zinc	26	1.0	mg/Kg dry	1		SW-846 6010C	1/31/13	2/2/13 0:26	OP



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

Project Location: Mystic, CT

Sample Description:

Work Order: 13A0745

Date Received: 1/29/2013

Sampled: 1/29/2013 10:30

Field Sample #: 1273861

Sample ID: 13A0745-01

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	94.3		% Wt	1		SM 2540G	1/30/13	1/31/13 11:35	CWB



Project Location: Mystic, CT

Sample Description:

Work Order: 13A0745

Date Received: 1/29/2013

Field Sample #: 1273862

Sampled: 1/29/2013 11:05

Sample ID: 13A0745-02

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.051	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 14:19	MFF
Acrylonitrile	ND	0.0030	mg/Kg dry	1	V-16	SW-846 8260C	1/31/13	2/1/13 14:19	MFF
Benzene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 14:19	MFF
Bromobenzene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 14:19	MFF
Bromodichloromethane	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 14:19	MFF
Bromoform	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 14:19	MFF
Bromomethane	ND	0.0051	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 14:19	MFF
2-Butanone (MEK)	ND	0.020	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 14:19	MFF
n-Butylbenzene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 14:19	MFF
sec-Butylbenzene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 14:19	MFF
tert-Butylbenzene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 14:19	MFF
Carbon Disulfide	ND	0.0030	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 14:19	MFF
Carbon Tetrachloride	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 14:19	MFF
Chlorobenzene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 14:19	MFF
Chlorodibromomethane	ND	0.00051	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 14:19	MFF
Chloroethane	ND	0.010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 14:19	MFF
Chloroform	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 14:19	MFF
Chloromethane	ND	0.0051	mg/Kg dry	1	L-03	SW-846 8260C	1/31/13	2/1/13 14:19	MFF
2-Chlorotoluene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 14:19	MFF
4-Chlorotoluene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 14:19	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0010	mg/Kg dry	1	V-16	SW-846 8260C	1/31/13	2/1/13 14:19	MFF
1,2-Dibromoethane (EDB)	ND	0.00051	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 14:19	MFF
Dibromomethane	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 14:19	MFF
1,2-Dichlorobenzene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 14:19	MFF
1,3-Dichlorobenzene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 14:19	MFF
1,4-Dichlorobenzene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 14:19	MFF
trans-1,4-Dichloro-2-butene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 14:19	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.010	mg/Kg dry	1	L-03	SW-846 8260C	1/31/13	2/1/13 14:19	MFF
1,1-Dichloroethane	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 14:19	MFF
1,2-Dichloroethane	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 14:19	MFF
1,1-Dichloroethylene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 14:19	MFF
cis-1,2-Dichloroethylene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 14:19	MFF
trans-1,2-Dichloroethylene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 14:19	MFF
1,2-Dichloropropane	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 14:19	MFF
1,3-Dichloropropane	ND	0.00051	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 14:19	MFF
2,2-Dichloropropane	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 14:19	MFF
1,1-Dichloropropene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 14:19	MFF
cis-1,3-Dichloropropene	ND	0.00051	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 14:19	MFF
trans-1,3-Dichloropropene	ND	0.00051	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 14:19	MFF
Ethylbenzene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 14:19	MFF
Hexachlorobutadiene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 14:19	MFF
2-Hexanone (MBK)	ND	0.010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 14:19	MFF
Isopropylbenzene (Cumene)	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 14:19	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 14:19	MFF



Project Location: Mystic, CT

Sample Description:

Work Order: 13A0745

Date Received: 1/29/2013

Field Sample #: 1273862

Sampled: 1/29/2013 11:05

Sample ID: 13A0745-02

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 14:19	MFF
Methylene Chloride	ND	0.010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 14:19	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 14:19	MFF
Naphthalene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 14:19	MFF
n-Propylbenzene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 14:19	MFF
Styrene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 14:19	MFF
1,1,1,2-Tetrachloroethane	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 14:19	MFF
1,1,2,2-Tetrachloroethane	ND	0.00051	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 14:19	MFF
Tetrachloroethylene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 14:19	MFF
Tetrahydrofuran	ND	0.0051	mg/Kg dry	1	V-16	SW-846 8260C	1/31/13	2/1/13 14:19	MFF
Toluene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 14:19	MFF
1,2,3-Trichlorobenzene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 14:19	MFF
1,2,4-Trichlorobenzene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 14:19	MFF
1,1,1-Trichloroethane	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 14:19	MFF
1,1,2-Trichloroethane	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 14:19	MFF
Trichloroethylene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 14:19	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0051	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 14:19	MFF
1,2,3-Trichloropropane	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 14:19	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0051	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 14:19	MFF
1,2,4-Trimethylbenzene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 14:19	MFF
1,3,5-Trimethylbenzene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 14:19	MFF
Vinyl Chloride	ND	0.0051	mg/Kg dry	1	L-03	SW-846 8260C	1/31/13	2/1/13 14:19	MFF
m+p Xylene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 14:19	MFF
o-Xylene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 14:19	MFF
Surrogates	% Recovery	Recovery Limits	Flag						
1,2-Dichloroethane-d4	115	70-130							
Toluene-d8	100	70-130							
4-Bromofluorobenzene	94.3	70-130							



Project Location: Mystic, CT

Sample Description:

Work Order: 13A0745

Date Received: 1/29/2013

Field Sample #: 1273862

Sampled: 1/29/2013 11:05

Sample ID: 13A0745-02

Sample Matrix: Soil

## Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 21:10	BGL
Acenaphthylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 21:10	BGL
Anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 21:10	BGL
Benzo(a)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 21:10	BGL
Benzo(a)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 21:10	BGL
Benzo(b)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 21:10	BGL
Benzo(g,h,i)perylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 21:10	BGL
Benzo(k)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 21:10	BGL
Chrysene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 21:10	BGL
Dibenz(a,h)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 21:10	BGL
Fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 21:10	BGL
Fluorene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 21:10	BGL
Indeno(1,2,3-cd)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 21:10	BGL
2-Methylnaphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 21:10	BGL
Naphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 21:10	BGL
Phenanthrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 21:10	BGL
Pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 21:10	BGL
Surrogates	% Recovery	Recovery Limits	Flag						
Nitrobenzene-d5	66.3	30-130						2/4/13 21:10	
2-Fluorobiphenyl	70.8	30-130						2/4/13 21:10	
Terphenyl-d14	88.2	30-130						2/4/13 21:10	



Project Location: Mystic, CT

Sample Description:

Work Order: 13A0745

Date Received: 1/29/2013

Field Sample #: 1273862

Sampled: 1/29/2013 11:05

Sample ID: 13A0745-02

Sample Matrix: Soil

## Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	2.6	mg/Kg dry	1		SW-846 6010C	1/31/13	2/2/13 0:31	OP
Barium	89	2.6	mg/Kg dry	1		SW-846 6010C	1/31/13	2/2/13 0:31	OP
Cadmium	ND	0.26	mg/Kg dry	1		SW-846 6010C	1/31/13	2/2/13 0:31	OP
Chromium	24	0.51	mg/Kg dry	1		SW-846 6010C	1/31/13	2/2/13 0:31	OP
Copper	19	0.51	mg/Kg dry	1		SW-846 6010C	1/31/13	2/2/13 0:31	OP
Lead	9.4	0.77	mg/Kg dry	1	M-10	SW-846 6010C	1/31/13	2/2/13 18:59	OP
Mercury	ND	0.027	mg/Kg dry	1		SW-846 7471B	1/31/13	2/1/13 12:24	SAJ
Nickel	16	0.51	mg/Kg dry	1		SW-846 6010C	1/31/13	2/2/13 18:59	OP
Selenium	ND	5.1	mg/Kg dry	1		SW-846 6010C	1/31/13	2/2/13 0:31	OP
Silver	ND	0.51	mg/Kg dry	1		SW-846 6010C	1/31/13	2/2/13 0:31	OP
Zinc	26	1.0	mg/Kg dry	1		SW-846 6010C	1/31/13	2/2/13 0:31	OP



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Project Location: Mystic, CT

Sample Description:

Work Order: 13A0745

Date Received: 1/29/2013

Sampled: 1/29/2013 11:05

Field Sample #: 1273862

Sample ID: 13A0745-02

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	92.3		% Wt	1		SM 2540G	1/30/13	1/31/13 11:35	CWB



Project Location: Mystic, CT

Sample Description:

Work Order: 13A0745

Date Received: 1/29/2013

Field Sample #: 1273863

Sampled: 1/29/2013 11:45

Sample ID: 13A0745-03

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.085	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 14:46	MFF
Acrylonitrile	ND	0.0051	mg/Kg dry	1	V-16	SW-846 8260C	1/31/13	2/1/13 14:46	MFF
Benzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 14:46	MFF
Bromobenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 14:46	MFF
Bromodichloromethane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 14:46	MFF
Bromoform	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 14:46	MFF
Bromomethane	ND	0.0085	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 14:46	MFF
2-Butanone (MEK)	ND	0.034	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 14:46	MFF
n-Butylbenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 14:46	MFF
sec-Butylbenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 14:46	MFF
tert-Butylbenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 14:46	MFF
Carbon Disulfide	ND	0.0051	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 14:46	MFF
Carbon Tetrachloride	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 14:46	MFF
Chlorobenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 14:46	MFF
Chlorodibromomethane	ND	0.00085	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 14:46	MFF
Chloroethane	ND	0.017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 14:46	MFF
Chloroform	ND	0.0034	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 14:46	MFF
Chloromethane	ND	0.0085	mg/Kg dry	1	L-03	SW-846 8260C	1/31/13	2/1/13 14:46	MFF
2-Chlorotoluene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 14:46	MFF
4-Chlorotoluene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 14:46	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0017	mg/Kg dry	1	V-16	SW-846 8260C	1/31/13	2/1/13 14:46	MFF
1,2-Dibromoethane (EDB)	ND	0.00085	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 14:46	MFF
Dibromomethane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 14:46	MFF
1,2-Dichlorobenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 14:46	MFF
1,3-Dichlorobenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 14:46	MFF
1,4-Dichlorobenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 14:46	MFF
trans-1,4-Dichloro-2-butene	ND	0.0034	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 14:46	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.017	mg/Kg dry	1	L-03	SW-846 8260C	1/31/13	2/1/13 14:46	MFF
1,1-Dichloroethane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 14:46	MFF
1,2-Dichloroethane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 14:46	MFF
1,1-Dichloroethylene	ND	0.0034	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 14:46	MFF
cis-1,2-Dichloroethylene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 14:46	MFF
trans-1,2-Dichloroethylene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 14:46	MFF
1,2-Dichloropropane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 14:46	MFF
1,3-Dichloropropane	ND	0.00085	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 14:46	MFF
2,2-Dichloropropane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 14:46	MFF
1,1-Dichloropropene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 14:46	MFF
cis-1,3-Dichloropropene	ND	0.00085	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 14:46	MFF
trans-1,3-Dichloropropene	ND	0.00085	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 14:46	MFF
Ethylbenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 14:46	MFF
Hexachlorobutadiene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 14:46	MFF
2-Hexanone (MBK)	ND	0.017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 14:46	MFF
Isopropylbenzene (Cumene)	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 14:46	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 14:46	MFF



Project Location: Mystic, CT

Sample Description:

Work Order: 13A0745

Date Received: 1/29/2013

Field Sample #: 1273863

Sampled: 1/29/2013 11:45

Sample ID: 13A0745-03

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0034	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 14:46	MFF
Methylene Chloride	ND	0.017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 14:46	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 14:46	MFF
Naphthalene	ND	0.0034	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 14:46	MFF
n-Propylbenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 14:46	MFF
Styrene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 14:46	MFF
1,1,1,2-Tetrachloroethane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 14:46	MFF
1,1,2,2-Tetrachloroethane	ND	0.00085	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 14:46	MFF
Tetrachloroethylene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 14:46	MFF
Tetrahydrofuran	ND	0.0085	mg/Kg dry	1	V-16	SW-846 8260C	1/31/13	2/1/13 14:46	MFF
Toluene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 14:46	MFF
1,2,3-Trichlorobenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 14:46	MFF
1,2,4-Trichlorobenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 14:46	MFF
1,1,1-Trichloroethane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 14:46	MFF
1,1,2-Trichloroethane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 14:46	MFF
Trichloroethylene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 14:46	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0085	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 14:46	MFF
1,2,3-Trichloropropane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 14:46	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0085	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 14:46	MFF
1,2,4-Trimethylbenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 14:46	MFF
1,3,5-Trimethylbenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 14:46	MFF
Vinyl Chloride	ND	0.0085	mg/Kg dry	1	L-03	SW-846 8260C	1/31/13	2/1/13 14:46	MFF
m+p Xylene	ND	0.0034	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 14:46	MFF
o-Xylene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 14:46	MFF
Surrogates	% Recovery	Recovery Limits	Flag						
1,2-Dichloroethane-d4	117	70-130							
Toluene-d8	100	70-130							
4-Bromofluorobenzene	94.4	70-130							



Project Location: Mystic, CT

Sample Description:

Work Order: 13A0745

Date Received: 1/29/2013

Field Sample #: 1273863

Sampled: 1/29/2013 11:45

Sample ID: 13A0745-03

Sample Matrix: Soil

## Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 21:43	BGL
Acenaphthylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 21:43	BGL
Anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 21:43	BGL
Benzo(a)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 21:43	BGL
Benzo(a)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 21:43	BGL
Benzo(b)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 21:43	BGL
Benzo(g,h,i)perylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 21:43	BGL
Benzo(k)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 21:43	BGL
Chrysene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 21:43	BGL
Dibenz(a,h)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 21:43	BGL
Fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 21:43	BGL
Fluorene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 21:43	BGL
Indeno(1,2,3-cd)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 21:43	BGL
2-Methylnaphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 21:43	BGL
Naphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 21:43	BGL
Phenanthrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 21:43	BGL
Pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 21:43	BGL
Surrogates	% Recovery	Recovery Limits	Flag						
Nitrobenzene-d5	83.8	30-130							
2-Fluorobiphenyl	90.1	30-130							
Terphenyl-d14	112	30-130							



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

Project Location: Mystic, CT

Sample Description:

Work Order: 13A0745

Date Received: 1/29/2013

Field Sample #: 1273863

Sampled: 1/29/2013 11:45

Sample ID: 13A0745-03

Sample Matrix: Soil

#### Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	ND	10	mg/Kg dry	1		CTDEP ETPH	2/4/13	2/5/13 19:04	SCS
Surrogates	% Recovery		Recovery Limits		Flag				
o-Terphenyl	73.9		50-150			2/5/13 19:04			



Project Location: Mystic, CT

Sample Description:

Work Order: 13A0745

Date Received: 1/29/2013

Field Sample #: 1273863

Sampled: 1/29/2013 11:45

Sample ID: 13A0745-03

Sample Matrix: Soil

# Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	2.5	mg/Kg dry	1		SW-846 6010C	1/31/13	2/2/13 0:35	OP
Barium	50	2.5	mg/Kg dry	1		SW-846 6010C	1/31/13	2/2/13 0:35	OP
Cadmium	ND	0.25	mg/Kg dry	1		SW-846 6010C	1/31/13	2/2/13 0:35	OP
Chromium	11	0.51	mg/Kg dry	1		SW-846 6010C	1/31/13	2/2/13 0:35	OP
Copper	8.8	0.51	mg/Kg dry	1		SW-846 6010C	1/31/13	2/2/13 0:35	OP
Lead	6.0	0.76	mg/Kg dry	1	M-10	SW-846 6010C	1/31/13	2/2/13 19:04	OP
Mercury	ND	0.026	mg/Kg dry	1		SW-846 7471B	1/31/13	2/1/13 12:26	SAJ
Nickel	7.5	0.51	mg/Kg dry	1		SW-846 6010C	1/31/13	2/2/13 19:04	OP
Selenium	ND	5.1	mg/Kg dry	1		SW-846 6010C	1/31/13	2/2/13 0:35	OP
Silver	ND	0.51	mg/Kg dry	1		SW-846 6010C	1/31/13	2/2/13 0:35	OP
Zinc	25	1.0	mg/Kg dry	1		SW-846 6010C	1/31/13	2/2/13 0:35	OP



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

Project Location: Mystic, CT

Sample Description:

Work Order: 13A0745

Date Received: 1/29/2013

Field Sample #: 1273863

Sampled: 1/29/2013 11:45

Sample ID: 13A0745-03

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	94.3		% Wt	1		SM 2540G	1/30/13	1/31/13 11:35	CWB



Project Location: Mystic, CT

Sample Description:

Work Order: 13A0745

Date Received: 1/29/2013

Field Sample #: 1273864

Sampled: 1/29/2013 13:05

Sample ID: 13A0745-04

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.084	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 15:14	MFF
Acrylonitrile	ND	0.0051	mg/Kg dry	1	V-16	SW-846 8260C	1/31/13	2/1/13 15:14	MFF
Benzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 15:14	MFF
Bromobenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 15:14	MFF
Bromodichloromethane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 15:14	MFF
Bromoform	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 15:14	MFF
Bromomethane	ND	0.0084	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 15:14	MFF
2-Butanone (MEK)	ND	0.034	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 15:14	MFF
n-Butylbenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 15:14	MFF
sec-Butylbenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 15:14	MFF
tert-Butylbenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 15:14	MFF
Carbon Disulfide	ND	0.0051	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 15:14	MFF
Carbon Tetrachloride	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 15:14	MFF
Chlorobenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 15:14	MFF
Chlorodibromomethane	ND	0.00084	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 15:14	MFF
Chloroethane	ND	0.017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 15:14	MFF
Chloroform	ND	0.0034	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 15:14	MFF
Chloromethane	ND	0.0084	mg/Kg dry	1	L-03	SW-846 8260C	1/31/13	2/1/13 15:14	MFF
2-Chlorotoluene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 15:14	MFF
4-Chlorotoluene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 15:14	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0017	mg/Kg dry	1	V-16	SW-846 8260C	1/31/13	2/1/13 15:14	MFF
1,2-Dibromoethane (EDB)	ND	0.00084	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 15:14	MFF
Dibromomethane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 15:14	MFF
1,2-Dichlorobenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 15:14	MFF
1,3-Dichlorobenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 15:14	MFF
1,4-Dichlorobenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 15:14	MFF
trans-1,4-Dichloro-2-butene	ND	0.0034	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 15:14	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.017	mg/Kg dry	1	L-03	SW-846 8260C	1/31/13	2/1/13 15:14	MFF
1,1-Dichloroethane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 15:14	MFF
1,2-Dichloroethane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 15:14	MFF
1,1-Dichloroethylene	ND	0.0034	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 15:14	MFF
cis-1,2-Dichloroethylene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 15:14	MFF
trans-1,2-Dichloroethylene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 15:14	MFF
1,2-Dichloropropane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 15:14	MFF
1,3-Dichloropropane	ND	0.00084	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 15:14	MFF
2,2-Dichloropropane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 15:14	MFF
1,1-Dichloropropene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 15:14	MFF
cis-1,3-Dichloropropene	ND	0.00084	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 15:14	MFF
trans-1,3-Dichloropropene	ND	0.00084	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 15:14	MFF
Ethylbenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 15:14	MFF
Hexachlorobutadiene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 15:14	MFF
2-Hexanone (MBK)	ND	0.017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 15:14	MFF
Isopropylbenzene (Cumene)	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 15:14	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 15:14	MFF



Project Location: Mystic, CT

Sample Description:

Work Order: 13A0745

Date Received: 1/29/2013

Field Sample #: 1273864

Sampled: 1/29/2013 13:05

Sample ID: 13A0745-04

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0034	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 15:14	MFF
Methylene Chloride	ND	0.017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 15:14	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 15:14	MFF
Naphthalene	ND	0.0034	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 15:14	MFF
n-Propylbenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 15:14	MFF
Styrene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 15:14	MFF
1,1,1,2-Tetrachloroethane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 15:14	MFF
1,1,2,2-Tetrachloroethane	ND	0.00084	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 15:14	MFF
Tetrachloroethylene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 15:14	MFF
Tetrahydrofuran	ND	0.0084	mg/Kg dry	1	V-16	SW-846 8260C	1/31/13	2/1/13 15:14	MFF
Toluene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 15:14	MFF
1,2,3-Trichlorobenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 15:14	MFF
1,2,4-Trichlorobenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 15:14	MFF
1,1,1-Trichloroethane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 15:14	MFF
1,1,2-Trichloroethane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 15:14	MFF
Trichloroethylene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 15:14	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0084	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 15:14	MFF
1,2,3-Trichloropropane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 15:14	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0084	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 15:14	MFF
1,2,4-Trimethylbenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 15:14	MFF
1,3,5-Trimethylbenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 15:14	MFF
Vinyl Chloride	ND	0.0084	mg/Kg dry	1	L-03	SW-846 8260C	1/31/13	2/1/13 15:14	MFF
m+p Xylene	ND	0.0034	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 15:14	MFF
o-Xylene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 15:14	MFF
Surrogates	% Recovery	Recovery Limits	Flag						
1,2-Dichloroethane-d4	114	70-130							
Toluene-d8	98.6	70-130							
4-Bromofluorobenzene	95.0	70-130							



Project Location: Mystic, CT

Sample Description:

Work Order: 13A0745

Date Received: 1/29/2013

Field Sample #: 1273864

Sampled: 1/29/2013 13:05

Sample ID: 13A0745-04

Sample Matrix: Soil

## Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 19:24	CMR
Acenaphthylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 19:24	CMR
Anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 19:24	CMR
Benzo(a)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 19:24	CMR
Benzo(a)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 19:24	CMR
Benzo(b)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 19:24	CMR
Benzo(g,h,i)perylene	ND	0.18	mg/Kg dry	1	V-20	SW-846 8270D	2/4/13	2/4/13 19:24	CMR
Benzo(k)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 19:24	CMR
Chrysene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 19:24	CMR
Dibenz(a,h)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 19:24	CMR
Fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 19:24	CMR
Fluorene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 19:24	CMR
Indeno(1,2,3-cd)pyrene	ND	0.18	mg/Kg dry	1	V-20	SW-846 8270D	2/4/13	2/4/13 19:24	CMR
2-Methylnaphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 19:24	CMR
Naphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 19:24	CMR
Phenanthrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 19:24	CMR
Pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 19:24	CMR
Surrogates	% Recovery	Recovery Limits	Flag						
Nitrobenzene-d5	76.3	30-130						2/4/13 19:24	
2-Fluorobiphenyl	77.3	30-130						2/4/13 19:24	
Terphenyl-d14	100	30-130						2/4/13 19:24	



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Project Location: Mystic, CT

Sample Description:

Work Order: 13A0745

Date Received: 1/29/2013

Field Sample #: 1273864

Sampled: 1/29/2013 13:05

Sample ID: 13A0745-04

Sample Matrix: Soil

#### Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	11	10	mg/Kg dry	1		CTDEP ETPH	2/4/13	2/5/13 19:57	SCS
Surrogates	% Recovery		Recovery Limits		Flag				
o-Terphenyl	78.0		50-150			2/5/13 19:57			



Project Location: Mystic, CT

Sample Description:

Work Order: 13A0745

Date Received: 1/29/2013

Field Sample #: 1273864

Sampled: 1/29/2013 13:05

Sample ID: 13A0745-04

Sample Matrix: Soil

#### Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	2.5	mg/Kg dry	1		SW-846 6010C	1/31/13	2/2/13 0:39	OP
Barium	60	2.5	mg/Kg dry	1		SW-846 6010C	1/31/13	2/2/13 0:39	OP
Cadmium	ND	0.25	mg/Kg dry	1		SW-846 6010C	1/31/13	2/2/13 0:39	OP
Chromium	19	0.49	mg/Kg dry	1		SW-846 6010C	1/31/13	2/2/13 0:39	OP
Copper	24	0.49	mg/Kg dry	1		SW-846 6010C	1/31/13	2/2/13 0:39	OP
Lead	5.1	0.74	mg/Kg dry	1	M-10	SW-846 6010C	1/31/13	2/2/13 19:10	OP
Mercury	ND	0.026	mg/Kg dry	1		SW-846 7471B	1/31/13	2/1/13 12:27	SAJ
Nickel	14	0.49	mg/Kg dry	1		SW-846 6010C	1/31/13	2/2/13 19:10	OP
Selenium	ND	4.9	mg/Kg dry	1		SW-846 6010C	1/31/13	2/2/13 0:39	OP
Silver	ND	0.49	mg/Kg dry	1		SW-846 6010C	1/31/13	2/2/13 0:39	OP
Zinc	25	0.98	mg/Kg dry	1		SW-846 6010C	1/31/13	2/2/13 0:39	OP



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

Project Location: Mystic, CT

Sample Description:

Work Order: 13A0745

Date Received: 1/29/2013

Field Sample #: 1273864

Sampled: 1/29/2013 13:05

Sample ID: 13A0745-04

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	94.7		% Wt	1		SM 2540G	1/30/13	1/31/13 11:35	CWB



Project Location: Mystic, CT

Sample Description:

Work Order: 13A0745

Date Received: 1/29/2013

Field Sample #: 1273865

Sampled: 1/29/2013 13:30

Sample ID: 13A0745-05

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.083	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 15:41	MFF
Acrylonitrile	ND	0.0050	mg/Kg dry	1	V-16	SW-846 8260C	1/31/13	2/1/13 15:41	MFF
Benzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 15:41	MFF
Bromobenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 15:41	MFF
Bromodichloromethane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 15:41	MFF
Bromoform	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 15:41	MFF
Bromomethane	ND	0.0083	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 15:41	MFF
2-Butanone (MEK)	ND	0.033	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 15:41	MFF
n-Butylbenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 15:41	MFF
sec-Butylbenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 15:41	MFF
tert-Butylbenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 15:41	MFF
Carbon Disulfide	ND	0.0050	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 15:41	MFF
Carbon Tetrachloride	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 15:41	MFF
Chlorobenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 15:41	MFF
Chlorodibromomethane	ND	0.00083	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 15:41	MFF
Chloroethane	ND	0.017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 15:41	MFF
Chloroform	ND	0.0033	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 15:41	MFF
Chloromethane	ND	0.0083	mg/Kg dry	1	L-03	SW-846 8260C	1/31/13	2/1/13 15:41	MFF
2-Chlorotoluene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 15:41	MFF
4-Chlorotoluene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 15:41	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0017	mg/Kg dry	1	V-16	SW-846 8260C	1/31/13	2/1/13 15:41	MFF
1,2-Dibromoethane (EDB)	ND	0.00083	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 15:41	MFF
Dibromomethane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 15:41	MFF
1,2-Dichlorobenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 15:41	MFF
1,3-Dichlorobenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 15:41	MFF
1,4-Dichlorobenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 15:41	MFF
trans-1,4-Dichloro-2-butene	ND	0.0033	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 15:41	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.017	mg/Kg dry	1	L-03	SW-846 8260C	1/31/13	2/1/13 15:41	MFF
1,1-Dichloroethane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 15:41	MFF
1,2-Dichloroethane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 15:41	MFF
1,1-Dichloroethylene	ND	0.0033	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 15:41	MFF
cis-1,2-Dichloroethylene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 15:41	MFF
trans-1,2-Dichloroethylene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 15:41	MFF
1,2-Dichloropropane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 15:41	MFF
1,3-Dichloropropane	ND	0.00083	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 15:41	MFF
2,2-Dichloropropane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 15:41	MFF
1,1-Dichloropropene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 15:41	MFF
cis-1,3-Dichloropropene	ND	0.00083	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 15:41	MFF
trans-1,3-Dichloropropene	ND	0.00083	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 15:41	MFF
Ethylbenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 15:41	MFF
Hexachlorobutadiene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 15:41	MFF
2-Hexanone (MBK)	ND	0.017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 15:41	MFF
Isopropylbenzene (Cumene)	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 15:41	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 15:41	MFF



Project Location: Mystic, CT

Sample Description:

Work Order: 13A0745

Date Received: 1/29/2013

Field Sample #: 1273865

Sampled: 1/29/2013 13:30

Sample ID: 13A0745-05

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0033	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 15:41	MFF
Methylene Chloride	ND	0.017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 15:41	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 15:41	MFF
Naphthalene	ND	0.0033	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 15:41	MFF
n-Propylbenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 15:41	MFF
Styrene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 15:41	MFF
1,1,1,2-Tetrachloroethane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 15:41	MFF
1,1,2,2-Tetrachloroethane	ND	0.00083	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 15:41	MFF
Tetrachloroethylene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 15:41	MFF
Tetrahydrofuran	ND	0.0083	mg/Kg dry	1	V-16	SW-846 8260C	1/31/13	2/1/13 15:41	MFF
Toluene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 15:41	MFF
1,2,3-Trichlorobenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 15:41	MFF
1,2,4-Trichlorobenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 15:41	MFF
1,1,1-Trichloroethane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 15:41	MFF
1,1,2-Trichloroethane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 15:41	MFF
Trichloroethylene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 15:41	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0083	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 15:41	MFF
1,2,3-Trichloropropane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 15:41	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0083	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 15:41	MFF
1,2,4-Trimethylbenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 15:41	MFF
1,3,5-Trimethylbenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 15:41	MFF
Vinyl Chloride	ND	0.0083	mg/Kg dry	1	L-03	SW-846 8260C	1/31/13	2/1/13 15:41	MFF
m+p Xylene	ND	0.0033	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 15:41	MFF
o-Xylene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 15:41	MFF
Surrogates	% Recovery	Recovery Limits	Flag						
1,2-Dichloroethane-d4	114	70-130							
Toluene-d8	99.1	70-130							
4-Bromofluorobenzene	94.3	70-130							



Project Location: Mystic, CT

Sample Description:

Work Order: 13A0745

Date Received: 1/29/2013

Field Sample #: 1273865

Sampled: 1/29/2013 13:30

Sample ID: 13A0745-05

Sample Matrix: Soil

## Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 22:17	BGL
Acenaphthylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 22:17	BGL
Anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 22:17	BGL
Benzo(a)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 22:17	BGL
Benzo(a)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 22:17	BGL
Benzo(b)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 22:17	BGL
Benzo(g,h,i)perylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 22:17	BGL
Benzo(k)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 22:17	BGL
Chrysene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 22:17	BGL
Dibenz(a,h)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 22:17	BGL
Fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 22:17	BGL
Fluorene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 22:17	BGL
Indeno(1,2,3-cd)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 22:17	BGL
2-Methylnaphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 22:17	BGL
Naphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 22:17	BGL
Phenanthrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 22:17	BGL
Pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 22:17	BGL
Surrogates	% Recovery	Recovery Limits	Flag						
Nitrobenzene-d5	84.5	30-130							
2-Fluorobiphenyl	91.3	30-130							
Terphenyl-d14	112	30-130							



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Project Location: Mystic, CT

Sample Description:

Work Order: 13A0745

Date Received: 1/29/2013

Field Sample #: 1273865

Sampled: 1/29/2013 13:30

Sample ID: 13A0745-05

Sample Matrix: Soil

#### Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	ND	11	mg/Kg dry	1		CTDEP ETPH	2/4/13	2/5/13 20:14	SCS
Surrogates	% Recovery		Recovery Limits		Flag				
o-Terphenyl	78.8		50-150			2/5/13 20:14			



Project Location: Mystic, CT

Sample Description:

Work Order: 13A0745

Date Received: 1/29/2013

Field Sample #: 1273865

Sampled: 1/29/2013 13:30

Sample ID: 13A0745-05

Sample Matrix: Soil

### Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	2.7	mg/Kg dry	1		SW-846 6010C	1/31/13	2/2/13 0:44	OP
Barium	62	2.7	mg/Kg dry	1		SW-846 6010C	1/31/13	2/2/13 0:44	OP
Cadmium	ND	0.27	mg/Kg dry	1		SW-846 6010C	1/31/13	2/2/13 0:44	OP
Chromium	19	0.54	mg/Kg dry	1		SW-846 6010C	1/31/13	2/2/13 0:44	OP
Copper	14	0.54	mg/Kg dry	1		SW-846 6010C	1/31/13	2/2/13 0:44	OP
Lead	5.3	0.81	mg/Kg dry	1	M-10	SW-846 6010C	1/31/13	2/2/13 19:15	OP
Mercury	ND	0.027	mg/Kg dry	1		SW-846 7471B	1/31/13	2/1/13 12:29	SAJ
Nickel	12	0.54	mg/Kg dry	1		SW-846 6010C	1/31/13	2/2/13 19:15	OP
Selenium	ND	5.4	mg/Kg dry	1		SW-846 6010C	1/31/13	2/2/13 0:44	OP
Silver	ND	0.54	mg/Kg dry	1		SW-846 6010C	1/31/13	2/2/13 0:44	OP
Zinc	22	1.1	mg/Kg dry	1		SW-846 6010C	1/31/13	2/2/13 0:44	OP



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Project Location: Mystic, CT

Sample Description:

Work Order: 13A0745

Date Received: 1/29/2013

Sampled: 1/29/2013 13:30

Field Sample #: 1273865

Sample ID: 13A0745-05

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	91.5		% Wt	1		SM 2540G	1/30/13	1/31/13 11:35	CWB



Project Location: Mystic, CT

Sample Description:

Work Order: 13A0745

Date Received: 1/29/2013

Field Sample #: 1273866

Sampled: 1/29/2013 14:15

Sample ID: 13A0745-06

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.037	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 16:08	MFF
Acrylonitrile	ND	0.0022	mg/Kg dry	1	V-16	SW-846 8260C	1/31/13	2/1/13 16:08	MFF
Benzene	ND	0.00075	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 16:08	MFF
Bromobenzene	ND	0.00075	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 16:08	MFF
Bromodichloromethane	ND	0.00075	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 16:08	MFF
Bromoform	ND	0.00075	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 16:08	MFF
Bromomethane	ND	0.0037	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 16:08	MFF
2-Butanone (MEK)	ND	0.015	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 16:08	MFF
n-Butylbenzene	ND	0.00075	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 16:08	MFF
sec-Butylbenzene	ND	0.00075	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 16:08	MFF
tert-Butylbenzene	ND	0.00075	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 16:08	MFF
Carbon Disulfide	ND	0.0022	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 16:08	MFF
Carbon Tetrachloride	ND	0.00075	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 16:08	MFF
Chlorobenzene	ND	0.00075	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 16:08	MFF
Chlorodibromomethane	ND	0.00037	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 16:08	MFF
Chloroethane	ND	0.0075	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 16:08	MFF
Chloroform	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 16:08	MFF
Chloromethane	ND	0.0037	mg/Kg dry	1	L-03	SW-846 8260C	1/31/13	2/1/13 16:08	MFF
2-Chlorotoluene	ND	0.00075	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 16:08	MFF
4-Chlorotoluene	ND	0.00075	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 16:08	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.00075	mg/Kg dry	1	V-16	SW-846 8260C	1/31/13	2/1/13 16:08	MFF
1,2-Dibromoethane (EDB)	ND	0.00037	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 16:08	MFF
Dibromomethane	ND	0.00075	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 16:08	MFF
1,2-Dichlorobenzene	ND	0.00075	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 16:08	MFF
1,3-Dichlorobenzene	ND	0.00075	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 16:08	MFF
1,4-Dichlorobenzene	ND	0.00075	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 16:08	MFF
trans-1,4-Dichloro-2-butene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 16:08	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.0075	mg/Kg dry	1	L-03	SW-846 8260C	1/31/13	2/1/13 16:08	MFF
1,1-Dichloroethane	ND	0.00075	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 16:08	MFF
1,2-Dichloroethane	ND	0.00075	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 16:08	MFF
1,1-Dichloroethylene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 16:08	MFF
cis-1,2-Dichloroethylene	ND	0.00075	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 16:08	MFF
trans-1,2-Dichloroethylene	ND	0.00075	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 16:08	MFF
1,2-Dichloropropane	ND	0.00075	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 16:08	MFF
1,3-Dichloropropane	ND	0.00037	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 16:08	MFF
2,2-Dichloropropane	ND	0.00075	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 16:08	MFF
1,1-Dichloropropene	ND	0.00075	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 16:08	MFF
cis-1,3-Dichloropropene	ND	0.00037	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 16:08	MFF
trans-1,3-Dichloropropene	ND	0.00037	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 16:08	MFF
Ethylbenzene	ND	0.00075	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 16:08	MFF
Hexachlorobutadiene	ND	0.00075	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 16:08	MFF
2-Hexanone (MBK)	ND	0.0075	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 16:08	MFF
Isopropylbenzene (Cumene)	ND	0.00075	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 16:08	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.00075	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 16:08	MFF



Project Location: Mystic, CT

Sample Description:

Work Order: 13A0745

Date Received: 1/29/2013

Field Sample #: 1273866

Sampled: 1/29/2013 14:15

Sample ID: 13A0745-06

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 16:08	MFF
Methylene Chloride	ND	0.0075	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 16:08	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.0075	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 16:08	MFF
Naphthalene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 16:08	MFF
n-Propylbenzene	ND	0.00075	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 16:08	MFF
Styrene	ND	0.00075	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 16:08	MFF
1,1,1,2-Tetrachloroethane	ND	0.00075	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 16:08	MFF
1,1,2,2-Tetrachloroethane	ND	0.00037	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 16:08	MFF
Tetrachloroethylene	ND	0.00075	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 16:08	MFF
Tetrahydrofuran	ND	0.0037	mg/Kg dry	1	V-16	SW-846 8260C	1/31/13	2/1/13 16:08	MFF
Toluene	ND	0.00075	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 16:08	MFF
1,2,3-Trichlorobenzene	ND	0.00075	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 16:08	MFF
1,2,4-Trichlorobenzene	ND	0.00075	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 16:08	MFF
1,1,1-Trichloroethane	ND	0.00075	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 16:08	MFF
1,1,2-Trichloroethane	ND	0.00075	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 16:08	MFF
Trichloroethylene	ND	0.00075	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 16:08	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0037	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 16:08	MFF
1,2,3-Trichloropropane	ND	0.00075	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 16:08	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0037	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 16:08	MFF
1,2,4-Trimethylbenzene	ND	0.00075	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 16:08	MFF
1,3,5-Trimethylbenzene	ND	0.00075	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 16:08	MFF
Vinyl Chloride	ND	0.0037	mg/Kg dry	1	L-03	SW-846 8260C	1/31/13	2/1/13 16:08	MFF
m+p Xylene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 16:08	MFF
o-Xylene	ND	0.00075	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 16:08	MFF
Surrogates	% Recovery	Recovery Limits	Flag						
1,2-Dichloroethane-d4	112	70-130							
Toluene-d8	99.8	70-130							
4-Bromofluorobenzene	94.9	70-130							



Project Location: Mystic, CT

Sample Description:

Work Order: 13A0745

Date Received: 1/29/2013

Field Sample #: 1273866

Sampled: 1/29/2013 14:15

Sample ID: 13A0745-06

Sample Matrix: Soil

## Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 23:24	BGL
Acenaphthylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 23:24	BGL
Anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 23:24	BGL
Benzo(a)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 23:24	BGL
Benzo(a)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 23:24	BGL
Benzo(b)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 23:24	BGL
Benzo(g,h,i)perylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 23:24	BGL
Benzo(k)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 23:24	BGL
Chrysene	ND	0.19	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 23:24	BGL
Dibenz(a,h)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 23:24	BGL
Fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 23:24	BGL
Fluorene	ND	0.19	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 23:24	BGL
Indeno(1,2,3-cd)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 23:24	BGL
2-Methylnaphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 23:24	BGL
Naphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 23:24	BGL
Phenanthrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 23:24	BGL
Pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 23:24	BGL
Surrogates	% Recovery	Recovery Limits	Flag						
Nitrobenzene-d5	67.4	30-130							
2-Fluorobiphenyl	73.8	30-130							
Terphenyl-d14	102	30-130							



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Project Location: Mystic, CT

Sample Description:

Work Order: 13A0745

Date Received: 1/29/2013

Field Sample #: 1273866

Sampled: 1/29/2013 14:15

Sample ID: 13A0745-06

Sample Matrix: Soil

**Petroleum Hydrocarbons Analyses**

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	16	11	mg/Kg dry	1		CTDEP ETPH	2/4/13	2/5/13 21:07	SCS
Surrogates	% Recovery		Recovery Limits		Flag				
o-Terphenyl	76.8		50-150			2/5/13 21:07			



Project Location: Mystic, CT

Sample Description:

Work Order: 13A0745

Date Received: 1/29/2013

Field Sample #: 1273866

Sampled: 1/29/2013 14:15

Sample ID: 13A0745-06

Sample Matrix: Soil

**Metals Analyses (Total)**

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	2.6	mg/Kg dry	1		SW-846 6010C	1/31/13	2/2/13 0:49	OP
Barium	62	2.6	mg/Kg dry	1		SW-846 6010C	1/31/13	2/2/13 0:49	OP
Cadmium	ND	0.26	mg/Kg dry	1		SW-846 6010C	1/31/13	2/2/13 0:49	OP
Chromium	17	0.53	mg/Kg dry	1		SW-846 6010C	1/31/13	2/2/13 0:49	OP
Copper	15	0.53	mg/Kg dry	1		SW-846 6010C	1/31/13	2/2/13 0:49	OP
Lead	5.6	0.79	mg/Kg dry	1	M-10	SW-846 6010C	1/31/13	2/2/13 19:21	OP
Mercury	ND	0.027	mg/Kg dry	1		SW-846 7471B	1/31/13	2/1/13 12:31	SAJ
Nickel	11	0.53	mg/Kg dry	1		SW-846 6010C	1/31/13	2/2/13 19:21	OP
Selenium	ND	5.3	mg/Kg dry	1		SW-846 6010C	1/31/13	2/2/13 0:49	OP
Silver	ND	0.53	mg/Kg dry	1		SW-846 6010C	1/31/13	2/2/13 0:49	OP
Zinc	23	1.1	mg/Kg dry	1		SW-846 6010C	1/31/13	2/2/13 0:49	OP



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Project Location: Mystic, CT

Sample Description:

Work Order: 13A0745

Date Received: 1/29/2013

Field Sample #: 1273866

Sampled: 1/29/2013 14:15

Sample ID: 13A0745-06

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	91.4		% Wt	1		SM 2540G	1/30/13	1/31/13 11:35	CWB



Project Location: Mystic, CT

Sample Description:

Work Order: 13A0745

Date Received: 1/29/2013

Field Sample #: 1273867

Sampled: 1/29/2013 14:37

Sample ID: 13A0745-07

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.072	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 16:35	MFF
Acrylonitrile	ND	0.0043	mg/Kg dry	1	V-16	SW-846 8260C	1/31/13	2/1/13 16:35	MFF
Benzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 16:35	MFF
Bromobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 16:35	MFF
Bromodichloromethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 16:35	MFF
Bromoform	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 16:35	MFF
Bromomethane	ND	0.0072	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 16:35	MFF
2-Butanone (MEK)	ND	0.029	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 16:35	MFF
n-Butylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 16:35	MFF
sec-Butylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 16:35	MFF
tert-Butylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 16:35	MFF
Carbon Disulfide	ND	0.0043	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 16:35	MFF
Carbon Tetrachloride	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 16:35	MFF
Chlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 16:35	MFF
Chlorodibromomethane	ND	0.00072	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 16:35	MFF
Chloroethane	ND	0.014	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 16:35	MFF
Chloroform	ND	0.0029	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 16:35	MFF
Chloromethane	ND	0.0072	mg/Kg dry	1	L-03	SW-846 8260C	1/31/13	2/1/13 16:35	MFF
2-Chlorotoluene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 16:35	MFF
4-Chlorotoluene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 16:35	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0014	mg/Kg dry	1	V-16	SW-846 8260C	1/31/13	2/1/13 16:35	MFF
1,2-Dibromoethane (EDB)	ND	0.00072	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 16:35	MFF
Dibromomethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 16:35	MFF
1,2-Dichlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 16:35	MFF
1,3-Dichlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 16:35	MFF
1,4-Dichlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 16:35	MFF
trans-1,4-Dichloro-2-butene	ND	0.0029	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 16:35	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.014	mg/Kg dry	1	L-03	SW-846 8260C	1/31/13	2/1/13 16:35	MFF
1,1-Dichloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 16:35	MFF
1,2-Dichloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 16:35	MFF
1,1-Dichloroethylene	ND	0.0029	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 16:35	MFF
cis-1,2-Dichloroethylene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 16:35	MFF
trans-1,2-Dichloroethylene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 16:35	MFF
1,2-Dichloropropane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 16:35	MFF
1,3-Dichloropropane	ND	0.00072	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 16:35	MFF
2,2-Dichloropropane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 16:35	MFF
1,1-Dichloropropene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 16:35	MFF
cis-1,3-Dichloropropene	ND	0.00072	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 16:35	MFF
trans-1,3-Dichloropropene	ND	0.00072	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 16:35	MFF
Ethylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 16:35	MFF
Hexachlorobutadiene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 16:35	MFF
2-Hexanone (MBK)	ND	0.014	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 16:35	MFF
Isopropylbenzene (Cumene)	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 16:35	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 16:35	MFF



Project Location: Mystic, CT

Sample Description:

Work Order: 13A0745

Date Received: 1/29/2013

Field Sample #: 1273867

Sampled: 1/29/2013 14:37

Sample ID: 13A0745-07

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0029	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 16:35	MFF
Methylene Chloride	ND	0.014	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 16:35	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.014	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 16:35	MFF
Naphthalene	ND	0.0029	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 16:35	MFF
n-Propylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 16:35	MFF
Styrene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 16:35	MFF
1,1,1,2-Tetrachloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 16:35	MFF
1,1,2,2-Tetrachloroethane	ND	0.00072	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 16:35	MFF
Tetrachloroethylene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 16:35	MFF
Tetrahydrofuran	ND	0.0072	mg/Kg dry	1	V-16	SW-846 8260C	1/31/13	2/1/13 16:35	MFF
Toluene	0.0016	0.0014	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 16:35	MFF
1,2,3-Trichlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 16:35	MFF
1,2,4-Trichlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 16:35	MFF
1,1,1-Trichloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 16:35	MFF
1,1,2-Trichloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 16:35	MFF
Trichloroethylene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 16:35	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0072	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 16:35	MFF
1,2,3-Trichloropropane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 16:35	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0072	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 16:35	MFF
1,2,4-Trimethylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 16:35	MFF
1,3,5-Trimethylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 16:35	MFF
Vinyl Chloride	ND	0.0072	mg/Kg dry	1	L-03	SW-846 8260C	1/31/13	2/1/13 16:35	MFF
m+p Xylene	ND	0.0029	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 16:35	MFF
o-Xylene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 16:35	MFF
Surrogates	% Recovery	Recovery Limits	Flag						
1,2-Dichloroethane-d4	114	70-130							
Toluene-d8	97.9	70-130							
4-Bromofluorobenzene	82.4	70-130							



Project Location: Mystic, CT

Sample Description:

Work Order: 13A0745

Date Received: 1/29/2013

Field Sample #: 1273867

Sampled: 1/29/2013 14:37

Sample ID: 13A0745-07

Sample Matrix: Soil

## Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 16:51	CMR
Acenaphthylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 16:51	CMR
Anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 16:51	CMR
Benzo(a)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 16:51	CMR
Benzo(a)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 16:51	CMR
Benzo(b)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 16:51	CMR
Benzo(g,h,i)perylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 16:51	CMR
Benzo(k)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 16:51	CMR
Chrysene	ND	0.19	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 16:51	CMR
Dibenz(a,h)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 16:51	CMR
Fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 16:51	CMR
Fluorene	ND	0.19	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 16:51	CMR
Indeno(1,2,3-cd)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 16:51	CMR
2-Methylnaphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 16:51	CMR
Naphthalene	0.27	0.19	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 16:51	CMR
Phenanthrene	0.25	0.19	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 16:51	CMR
Pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 16:51	CMR
Surrogates	% Recovery	Recovery Limits	Flag						
Nitrobenzene-d5	68.0	30-130							
2-Fluorobiphenyl	58.2	30-130							
Terphenyl-d14	67.3	30-130							



Project Location: Mystic, CT

Sample Description:

Work Order: 13A0745

Date Received: 1/29/2013

Field Sample #: 1273867

Sampled: 1/29/2013 14:37

Sample ID: 13A0745-07

Sample Matrix: Soil

### Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	2/1/13	2/4/13 19:36	MJC
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	2/1/13	2/4/13 19:36	MJC
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	2/1/13	2/4/13 19:36	MJC
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	2/1/13	2/4/13 19:36	MJC
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	2/1/13	2/4/13 19:36	MJC
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	2/1/13	2/4/13 19:36	MJC
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	2/1/13	2/4/13 19:36	MJC
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	2/1/13	2/4/13 19:36	MJC
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	2/1/13	2/4/13 19:36	MJC
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	70.3	30-150							
Decachlorobiphenyl [2]	71.3	30-150							
Tetrachloro-m-xylene [1]	66.4	30-150							
Tetrachloro-m-xylene [2]	67.4	30-150							



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

Project Location: Mystic, CT

Sample Description:

Work Order: 13A0745

Date Received: 1/29/2013

Field Sample #: 1273867

Sampled: 1/29/2013 14:37

Sample ID: 13A0745-07

Sample Matrix: Soil

#### Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	570	220	mg/Kg dry	20		CTDEP ETPH	2/4/13	2/6/13 9:31	SCS
Surrogates	% Recovery		Recovery Limits		Flag				
o-Terphenyl	*		50-150		S-01	2/6/13 9:31			



Project Location: Mystic, CT

Sample Description:

Work Order: 13A0745

Date Received: 1/29/2013

Field Sample #: 1273867

Sampled: 1/29/2013 14:37

Sample ID: 13A0745-07

Sample Matrix: Soil

### Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	2.8	mg/Kg dry	1		SW-846 6010C	1/31/13	2/2/13 1:10	OP
Barium	42	2.8	mg/Kg dry	1		SW-846 6010C	1/31/13	2/2/13 1:10	OP
Cadmium	ND	0.28	mg/Kg dry	1		SW-846 6010C	1/31/13	2/2/13 1:10	OP
Chromium	9.6	0.56	mg/Kg dry	1		SW-846 6010C	1/31/13	2/2/13 1:10	OP
Copper	17	0.56	mg/Kg dry	1		SW-846 6010C	1/31/13	2/2/13 1:10	OP
Lead	76	0.84	mg/Kg dry	1	M-10	SW-846 6010C	1/31/13	2/2/13 19:40	OP
Mercury	ND	0.028	mg/Kg dry	1		SW-846 7471B	1/31/13	2/1/13 12:32	SAJ
Nickel	6.9	0.56	mg/Kg dry	1		SW-846 6010C	1/31/13	2/2/13 19:40	OP
Selenium	ND	5.6	mg/Kg dry	1		SW-846 6010C	1/31/13	2/2/13 1:10	OP
Silver	0.78	0.56	mg/Kg dry	1		SW-846 6010C	1/31/13	2/2/13 1:10	OP
Zinc	25	1.1	mg/Kg dry	1		SW-846 6010C	1/31/13	2/2/13 1:10	OP



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

Project Location: Mystic, CT

Sample Description:

Work Order: 13A0745

Date Received: 1/29/2013

Sampled: 1/29/2013 14:37

Field Sample #: 1273867

Sample ID: 13A0745-07

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	88.6		% Wt	1		SM 2540G	1/30/13	1/31/13 11:35	CWB



Project Location: Mystic, CT

Sample Description:

Work Order: 13A0745

Date Received: 1/29/2013

Field Sample #: 1273868

Sampled: 1/29/2013 14:37

Sample ID: 13A0745-08

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.051	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:02	MFF
Acrylonitrile	ND	0.0031	mg/Kg dry	1	V-16	SW-846 8260C	1/31/13	2/1/13 17:02	MFF
Benzene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:02	MFF
Bromobenzene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:02	MFF
Bromodichloromethane	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:02	MFF
Bromoform	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:02	MFF
Bromomethane	ND	0.0051	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:02	MFF
2-Butanone (MEK)	ND	0.020	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:02	MFF
n-Butylbenzene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:02	MFF
sec-Butylbenzene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:02	MFF
tert-Butylbenzene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:02	MFF
Carbon Disulfide	ND	0.0031	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:02	MFF
Carbon Tetrachloride	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:02	MFF
Chlorobenzene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:02	MFF
Chlorodibromomethane	ND	0.00051	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:02	MFF
Chloroethane	ND	0.010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:02	MFF
Chloroform	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:02	MFF
Chloromethane	ND	0.0051	mg/Kg dry	1	L-03	SW-846 8260C	1/31/13	2/1/13 17:02	MFF
2-Chlorotoluene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:02	MFF
4-Chlorotoluene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:02	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0010	mg/Kg dry	1	V-16	SW-846 8260C	1/31/13	2/1/13 17:02	MFF
1,2-Dibromoethane (EDB)	ND	0.00051	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:02	MFF
Dibromomethane	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:02	MFF
1,2-Dichlorobenzene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:02	MFF
1,3-Dichlorobenzene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:02	MFF
1,4-Dichlorobenzene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:02	MFF
trans-1,4-Dichloro-2-butene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:02	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.010	mg/Kg dry	1	L-03	SW-846 8260C	1/31/13	2/1/13 17:02	MFF
1,1-Dichloroethane	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:02	MFF
1,2-Dichloroethane	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:02	MFF
1,1-Dichloroethylene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:02	MFF
cis-1,2-Dichloroethylene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:02	MFF
trans-1,2-Dichloroethylene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:02	MFF
1,2-Dichloropropane	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:02	MFF
1,3-Dichloropropane	ND	0.00051	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:02	MFF
2,2-Dichloropropane	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:02	MFF
1,1-Dichloropropene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:02	MFF
cis-1,3-Dichloropropene	ND	0.00051	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:02	MFF
trans-1,3-Dichloropropene	ND	0.00051	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:02	MFF
Ethylbenzene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:02	MFF
Hexachlorobutadiene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:02	MFF
2-Hexanone (MBK)	ND	0.010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:02	MFF
Isopropylbenzene (Cumene)	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:02	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:02	MFF



Project Location: Mystic, CT

Sample Description:

Work Order: 13A0745

Date Received: 1/29/2013

Field Sample #: 1273868

Sampled: 1/29/2013 14:37

Sample ID: 13A0745-08

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:02	MFF
Methylene Chloride	ND	0.010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:02	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:02	MFF
Naphthalene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:02	MFF
n-Propylbenzene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:02	MFF
Styrene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:02	MFF
1,1,1,2-Tetrachloroethane	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:02	MFF
1,1,2,2-Tetrachloroethane	ND	0.00051	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:02	MFF
Tetrachloroethylene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:02	MFF
Tetrahydrofuran	ND	0.0051	mg/Kg dry	1	V-16	SW-846 8260C	1/31/13	2/1/13 17:02	MFF
Toluene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:02	MFF
1,2,3-Trichlorobenzene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:02	MFF
1,2,4-Trichlorobenzene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:02	MFF
1,1,1-Trichloroethane	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:02	MFF
1,1,2-Trichloroethane	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:02	MFF
Trichloroethylene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:02	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0051	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:02	MFF
1,2,3-Trichloropropane	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:02	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0051	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:02	MFF
1,2,4-Trimethylbenzene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:02	MFF
1,3,5-Trimethylbenzene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:02	MFF
Vinyl Chloride	ND	0.0051	mg/Kg dry	1	L-03	SW-846 8260C	1/31/13	2/1/13 17:02	MFF
m+p Xylene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:02	MFF
o-Xylene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:02	MFF
Surrogates	% Recovery	Recovery Limits	Flag						
1,2-Dichloroethane-d4	115	70-130							
Toluene-d8	97.7	70-130							
4-Bromofluorobenzene	86.2	70-130							



Project Location: Mystic, CT

Sample Description:

Work Order: 13A0745

Date Received: 1/29/2013

Field Sample #: 1273868

Sampled: 1/29/2013 14:37

Sample ID: 13A0745-08

Sample Matrix: Soil

## Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 19:56	CMR
Acenaphthylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 19:56	CMR
Anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 19:56	CMR
Benzo(a)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 19:56	CMR
Benzo(a)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 19:56	CMR
Benzo(b)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 19:56	CMR
Benzo(g,h,i)perylene	ND	0.18	mg/Kg dry	1	V-20	SW-846 8270D	2/4/13	2/4/13 19:56	CMR
Benzo(k)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 19:56	CMR
Chrysene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 19:56	CMR
Dibenz(a,h)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 19:56	CMR
Fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 19:56	CMR
Fluorene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 19:56	CMR
Indeno(1,2,3-cd)pyrene	ND	0.18	mg/Kg dry	1	V-20	SW-846 8270D	2/4/13	2/4/13 19:56	CMR
2-Methylnaphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 19:56	CMR
Naphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 19:56	CMR
Phenanthrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 19:56	CMR
Pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 19:56	CMR
Surrogates	% Recovery	Recovery Limits	Flag						
Nitrobenzene-d5	64.6	30-130						2/4/13 19:56	
2-Fluorobiphenyl	66.2	30-130						2/4/13 19:56	
Terphenyl-d14	68.2	30-130						2/4/13 19:56	



Project Location: Mystic, CT

Sample Description:

Work Order: 13A0745

Date Received: 1/29/2013

Field Sample #: 1273868

Sampled: 1/29/2013 14:37

Sample ID: 13A0745-08

Sample Matrix: Soil

### Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	2/1/13	2/4/13 19:48	MJC
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	2/1/13	2/4/13 19:48	MJC
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	2/1/13	2/4/13 19:48	MJC
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	2/1/13	2/4/13 19:48	MJC
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	2/1/13	2/4/13 19:48	MJC
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	2/1/13	2/4/13 19:48	MJC
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	2/1/13	2/4/13 19:48	MJC
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	2/1/13	2/4/13 19:48	MJC
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	2/1/13	2/4/13 19:48	MJC
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	68.8	30-150							
Decachlorobiphenyl [2]	68.9	30-150							
Tetrachloro-m-xylene [1]	65.2	30-150							
Tetrachloro-m-xylene [2]	66.0	30-150							



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

Project Location: Mystic, CT

Sample Description:

Work Order: 13A0745

Date Received: 1/29/2013

Field Sample #: 1273868

Sampled: 1/29/2013 14:37

Sample ID: 13A0745-08

Sample Matrix: Soil

#### Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	470	220	mg/Kg dry	20		CTDEP ETPH	2/4/13	2/6/13 9:31	SCS
Surrogates	% Recovery		Recovery Limits		Flag				
o-Terphenyl	*		50-150		S-01	2/6/13 9:31			



Project Location: Mystic, CT

Sample Description:

Work Order: 13A0745

Date Received: 1/29/2013

Field Sample #: 1273868

Sampled: 1/29/2013 14:37

Sample ID: 13A0745-08

Sample Matrix: Soil

### Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	2.7	mg/Kg dry	1		SW-846 6010C	1/31/13	2/2/13 1:15	OP
Barium	35	2.7	mg/Kg dry	1		SW-846 6010C	1/31/13	2/2/13 1:15	OP
Cadmium	ND	0.27	mg/Kg dry	1		SW-846 6010C	1/31/13	2/2/13 1:15	OP
Chromium	7.1	0.53	mg/Kg dry	1		SW-846 6010C	1/31/13	2/2/13 1:15	OP
Copper	14	0.53	mg/Kg dry	1		SW-846 6010C	1/31/13	2/2/13 1:15	OP
Lead	52	0.80	mg/Kg dry	1	M-10	SW-846 6010C	1/31/13	2/2/13 19:46	OP
Mercury	ND	0.026	mg/Kg dry	1		SW-846 7471B	1/31/13	2/1/13 12:34	SAJ
Nickel	5.5	0.53	mg/Kg dry	1		SW-846 6010C	1/31/13	2/2/13 19:46	OP
Selenium	ND	5.3	mg/Kg dry	1		SW-846 6010C	1/31/13	2/2/13 1:15	OP
Silver	ND	0.53	mg/Kg dry	1		SW-846 6010C	1/31/13	2/2/13 1:15	OP
Zinc	19	1.1	mg/Kg dry	1		SW-846 6010C	1/31/13	2/2/13 1:15	OP



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

Project Location: Mystic, CT

Sample Description:

Work Order: 13A0745

Date Received: 1/29/2013

Field Sample #: 1273868

Sampled: 1/29/2013 14:37

Sample ID: 13A0745-08

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	92.6		% Wt	1		SM 2540G	1/30/13	1/31/13 11:35	CWB



Project Location: Mystic, CT

Sample Description:

Work Order: 13A0745

Date Received: 1/29/2013

Field Sample #: 1273869

Sampled: 1/29/2013 15:05

Sample ID: 13A0745-09

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.051	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:29	MFF
Acrylonitrile	ND	0.0030	mg/Kg dry	1	V-16	SW-846 8260C	1/31/13	2/1/13 17:29	MFF
Benzene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:29	MFF
Bromobenzene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:29	MFF
Bromodichloromethane	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:29	MFF
Bromoform	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:29	MFF
Bromomethane	ND	0.0051	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:29	MFF
2-Butanone (MEK)	ND	0.020	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:29	MFF
n-Butylbenzene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:29	MFF
sec-Butylbenzene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:29	MFF
tert-Butylbenzene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:29	MFF
Carbon Disulfide	ND	0.0030	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:29	MFF
Carbon Tetrachloride	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:29	MFF
Chlorobenzene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:29	MFF
Chlorodibromomethane	ND	0.00051	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:29	MFF
Chloroethane	ND	0.010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:29	MFF
Chloroform	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:29	MFF
Chloromethane	ND	0.0051	mg/Kg dry	1	L-03	SW-846 8260C	1/31/13	2/1/13 17:29	MFF
2-Chlorotoluene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:29	MFF
4-Chlorotoluene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:29	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0010	mg/Kg dry	1	V-16	SW-846 8260C	1/31/13	2/1/13 17:29	MFF
1,2-Dibromoethane (EDB)	ND	0.00051	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:29	MFF
Dibromomethane	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:29	MFF
1,2-Dichlorobenzene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:29	MFF
1,3-Dichlorobenzene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:29	MFF
1,4-Dichlorobenzene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:29	MFF
trans-1,4-Dichloro-2-butene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:29	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.010	mg/Kg dry	1	L-03	SW-846 8260C	1/31/13	2/1/13 17:29	MFF
1,1-Dichloroethane	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:29	MFF
1,2-Dichloroethane	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:29	MFF
1,1-Dichloroethylene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:29	MFF
cis-1,2-Dichloroethylene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:29	MFF
trans-1,2-Dichloroethylene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:29	MFF
1,2-Dichloropropane	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:29	MFF
1,3-Dichloropropane	ND	0.00051	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:29	MFF
2,2-Dichloropropane	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:29	MFF
1,1-Dichloropropene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:29	MFF
cis-1,3-Dichloropropene	ND	0.00051	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:29	MFF
trans-1,3-Dichloropropene	ND	0.00051	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:29	MFF
Ethylbenzene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:29	MFF
Hexachlorobutadiene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:29	MFF
2-Hexanone (MBK)	ND	0.010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:29	MFF
Isopropylbenzene (Cumene)	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:29	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:29	MFF



Project Location: Mystic, CT

Sample Description:

Work Order: 13A0745

Date Received: 1/29/2013

Field Sample #: 1273869

Sampled: 1/29/2013 15:05

Sample ID: 13A0745-09

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:29	MFF
Methylene Chloride	ND	0.010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:29	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:29	MFF
Naphthalene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:29	MFF
n-Propylbenzene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:29	MFF
Styrene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:29	MFF
1,1,1,2-Tetrachloroethane	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:29	MFF
1,1,2,2-Tetrachloroethane	ND	0.00051	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:29	MFF
Tetrachloroethylene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:29	MFF
Tetrahydrofuran	ND	0.0051	mg/Kg dry	1	V-16	SW-846 8260C	1/31/13	2/1/13 17:29	MFF
Toluene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:29	MFF
1,2,3-Trichlorobenzene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:29	MFF
1,2,4-Trichlorobenzene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:29	MFF
1,1,1-Trichloroethane	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:29	MFF
1,1,2-Trichloroethane	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:29	MFF
Trichloroethylene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:29	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0051	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:29	MFF
1,2,3-Trichloropropane	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:29	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0051	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:29	MFF
1,2,4-Trimethylbenzene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:29	MFF
1,3,5-Trimethylbenzene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:29	MFF
Vinyl Chloride	ND	0.0051	mg/Kg dry	1	L-03	SW-846 8260C	1/31/13	2/1/13 17:29	MFF
m+p Xylene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:29	MFF
o-Xylene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:29	MFF
Surrogates	% Recovery	Recovery Limits	Flag						
1,2-Dichloroethane-d4	113	70-130							
Toluene-d8	98.2	70-130							
4-Bromofluorobenzene	84.6	70-130							



Project Location: Mystic, CT

Sample Description:

Work Order: 13A0745

Date Received: 1/29/2013

Field Sample #: 1273869

Sampled: 1/29/2013 15:05

Sample ID: 13A0745-09

Sample Matrix: Soil

## Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 22:51	BGL
Acenaphthylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 22:51	BGL
Anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 22:51	BGL
Benzo(a)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 22:51	BGL
Benzo(a)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 22:51	BGL
Benzo(b)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 22:51	BGL
Benzo(g,h,i)perylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 22:51	BGL
Benzo(k)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 22:51	BGL
Chrysene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 22:51	BGL
Dibenz(a,h)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 22:51	BGL
Fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 22:51	BGL
Fluorene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 22:51	BGL
Indeno(1,2,3-cd)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 22:51	BGL
2-Methylnaphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 22:51	BGL
Naphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 22:51	BGL
Phenanthrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 22:51	BGL
Pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 22:51	BGL
Surrogates	% Recovery		Recovery Limits		Flag				
Nitrobenzene-d5	75.9		30-130				2/4/13 22:51		
2-Fluorobiphenyl	81.9		30-130				2/4/13 22:51		
Terphenyl-d14	106		30-130				2/4/13 22:51		



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

Project Location: Mystic, CT

Sample Description:

Work Order: 13A0745

Date Received: 1/29/2013

Field Sample #: 1273869

Sampled: 1/29/2013 15:05

Sample ID: 13A0745-09

Sample Matrix: Soil

#### Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	19	10	mg/Kg dry	1		CTDEP ETPH	2/4/13	2/5/13 20:32	SCS
Surrogates	% Recovery		Recovery Limits		Flag				
o-Terphenyl	76.0		50-150			2/5/13 20:32			



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

Project Location: Mystic, CT

Sample Description:

Work Order: 13A0745

Date Received: 1/29/2013

Sampled: 1/29/2013 15:05

Field Sample #: 1273869

Sample ID: 13A0745-09

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	95.0		% Wt	1		SM 2540G	1/30/13	1/31/13 11:35	CWB



Project Location: Mystic, CT

Sample Description:

Work Order: 13A0745

Date Received: 1/29/2013

Field Sample #: 1273870

Sampled: 1/29/2013 15:29

Sample ID: 13A0745-10

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.11	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:56	MFF
Acrylonitrile	ND	0.0068	mg/Kg dry	1	V-16	SW-846 8260C	1/31/13	2/1/13 17:56	MFF
Benzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:56	MFF
Bromobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:56	MFF
Bromodichloromethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:56	MFF
Bromoform	ND	0.0023	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:56	MFF
Bromomethane	ND	0.011	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:56	MFF
2-Butanone (MEK)	ND	0.045	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:56	MFF
n-Butylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:56	MFF
sec-Butylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:56	MFF
tert-Butylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:56	MFF
Carbon Disulfide	ND	0.0068	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:56	MFF
Carbon Tetrachloride	ND	0.0023	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:56	MFF
Chlorobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:56	MFF
Chlorodibromomethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:56	MFF
Chloroethane	ND	0.023	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:56	MFF
Chloroform	ND	0.0045	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:56	MFF
Chloromethane	ND	0.011	mg/Kg dry	1	L-03	SW-846 8260C	1/31/13	2/1/13 17:56	MFF
2-Chlorotoluene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:56	MFF
4-Chlorotoluene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:56	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0023	mg/Kg dry	1	V-16	SW-846 8260C	1/31/13	2/1/13 17:56	MFF
1,2-Dibromoethane (EDB)	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:56	MFF
Dibromomethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:56	MFF
1,2-Dichlorobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:56	MFF
1,3-Dichlorobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:56	MFF
1,4-Dichlorobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:56	MFF
trans-1,4-Dichloro-2-butene	ND	0.0045	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:56	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.023	mg/Kg dry	1	L-03	SW-846 8260C	1/31/13	2/1/13 17:56	MFF
1,1-Dichloroethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:56	MFF
1,2-Dichloroethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:56	MFF
1,1-Dichloroethylene	ND	0.0045	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:56	MFF
cis-1,2-Dichloroethylene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:56	MFF
trans-1,2-Dichloroethylene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:56	MFF
1,2-Dichloropropane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:56	MFF
1,3-Dichloropropane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:56	MFF
2,2-Dichloropropane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:56	MFF
1,1-Dichloropropene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:56	MFF
cis-1,3-Dichloropropene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:56	MFF
trans-1,3-Dichloropropene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:56	MFF
Ethylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:56	MFF
Hexachlorobutadiene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:56	MFF
2-Hexanone (MBK)	ND	0.023	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:56	MFF
Isopropylbenzene (Cumene)	ND	0.0023	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:56	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0023	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:56	MFF



Project Location: Mystic, CT

Sample Description:

Work Order: 13A0745

Date Received: 1/29/2013

Field Sample #: 1273870

Sampled: 1/29/2013 15:29

Sample ID: 13A0745-10

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0045	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:56	MFF
Methylene Chloride	ND	0.023	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:56	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.023	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:56	MFF
Naphthalene	ND	0.0045	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:56	MFF
n-Propylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:56	MFF
Styrene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:56	MFF
1,1,1,2-Tetrachloroethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:56	MFF
1,1,2,2-Tetrachloroethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:56	MFF
Tetrachloroethylene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:56	MFF
Tetrahydrofuran	ND	0.011	mg/Kg dry	1	V-16	SW-846 8260C	1/31/13	2/1/13 17:56	MFF
Toluene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:56	MFF
1,2,3-Trichlorobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:56	MFF
1,2,4-Trichlorobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:56	MFF
1,1,1-Trichloroethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:56	MFF
1,1,2-Trichloroethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:56	MFF
Trichloroethylene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:56	MFF
Trichlorofluoromethane (Freon 11)	ND	0.011	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:56	MFF
1,2,3-Trichloropropane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:56	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.011	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:56	MFF
1,2,4-Trimethylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:56	MFF
1,3,5-Trimethylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:56	MFF
Vinyl Chloride	ND	0.011	mg/Kg dry	1	L-03	SW-846 8260C	1/31/13	2/1/13 17:56	MFF
m+p Xylene	ND	0.0045	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:56	MFF
o-Xylene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	1/31/13	2/1/13 17:56	MFF
Surrogates	% Recovery	Recovery Limits	Flag						
1,2-Dichloroethane-d4	113	70-130							
Toluene-d8	97.2	70-130							
4-Bromofluorobenzene	77.7	70-130							



Project Location: Mystic, CT

Sample Description:

Work Order: 13A0745

Date Received: 1/29/2013

Field Sample #: 1273870

Sampled: 1/29/2013 15:29

Sample ID: 13A0745-10

Sample Matrix: Soil

## Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.21	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 17:20	CMR
Acenaphthylene	ND	0.21	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 17:20	CMR
Anthracene	ND	0.21	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 17:20	CMR
Benzo(a)anthracene	0.74	0.21	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 17:20	CMR
Benzo(a)pyrene	0.77	0.21	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 17:20	CMR
Benzo(b)fluoranthene	0.95	0.21	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 17:20	CMR
Benzo(g,h,i)perylene	0.34	0.21	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 17:20	CMR
Benzo(k)fluoranthene	0.33	0.21	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 17:20	CMR
Chrysene	0.92	0.21	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 17:20	CMR
Dibenz(a,h)anthracene	ND	0.21	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 17:20	CMR
Fluoranthene	1.1	0.21	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 17:20	CMR
Fluorene	ND	0.21	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 17:20	CMR
Indeno(1,2,3-cd)pyrene	0.52	0.21	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 17:20	CMR
2-Methylnaphthalene	ND	0.21	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 17:20	CMR
Naphthalene	ND	0.21	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 17:20	CMR
Phenanthrene	1.0	0.21	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 17:20	CMR
Pyrene	1.3	0.21	mg/Kg dry	1		SW-846 8270D	2/4/13	2/4/13 17:20	CMR
Surrogates	% Recovery	Recovery Limits	Flag						
Nitrobenzene-d5	82.1	30-130						2/4/13 17:20	
2-Fluorobiphenyl	65.2	30-130						2/4/13 17:20	
Terphenyl-d14	72.1	30-130						2/4/13 17:20	



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

Project Location: Mystic, CT

Sample Description:

Work Order: 13A0745

Date Received: 1/29/2013

Field Sample #: 1273870

Sampled: 1/29/2013 15:29

Sample ID: 13A0745-10

Sample Matrix: Soil

#### Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	240	130	mg/Kg dry	10		CTDEP ETPH	2/4/13	2/5/13 23:29	SCS
Surrogates	% Recovery		Recovery Limits		Flag				
o-Terphenyl	82.9		50-150			2/5/13 23:29			



Project Location: Mystic, CT

Sample Description:

Work Order: 13A0745

Date Received: 1/29/2013

Field Sample #: 1273870

Sampled: 1/29/2013 15:29

Sample ID: 13A0745-10

Sample Matrix: Soil

# Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	3.1	mg/Kg dry	1		SW-846 6010C	1/31/13	2/2/13 1:20	OP
Barium	93	3.1	mg/Kg dry	1		SW-846 6010C	1/31/13	2/2/13 1:20	OP
Cadmium	0.98	0.31	mg/Kg dry	1		SW-846 6010C	1/31/13	2/2/13 1:20	OP
Chromium	19	0.63	mg/Kg dry	1		SW-846 6010C	1/31/13	2/2/13 1:20	OP
Copper	260	0.63	mg/Kg dry	1		SW-846 6010C	1/31/13	2/2/13 1:20	OP
Lead	120	0.94	mg/Kg dry	1	M-10	SW-846 6010C	1/31/13	2/2/13 19:51	OP
Mercury	0.17	0.032	mg/Kg dry	1		SW-846 7471B	1/31/13	2/1/13 12:35	SAJ
Nickel	8.5	0.63	mg/Kg dry	1		SW-846 6010C	1/31/13	2/2/13 19:51	OP
Selenium	ND	6.3	mg/Kg dry	1		SW-846 6010C	1/31/13	2/2/13 1:20	OP
Silver	0.70	0.63	mg/Kg dry	1		SW-846 6010C	1/31/13	2/2/13 1:20	OP
Zinc	280	1.3	mg/Kg dry	1		SW-846 6010C	1/31/13	2/2/13 1:20	OP



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

Project Location: Mystic, CT

Sample Description:

Work Order: 13A0745

Date Received: 1/29/2013

Sampled: 1/29/2013 15:29

Field Sample #: 1273870

Sample ID: 13A0745-10

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	77.8		% Wt	1		SM 2540G	1/30/13	1/31/13 11:35	CWB



Project Location: Mystic, CT

Sample Description:

Work Order: 13A0745

Date Received: 1/29/2013

Field Sample #: 1273927

Sampled: 1/29/2013 15:00

Sample ID: 13A0745-12

Sample Matrix: Equipment Blank Water

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	5.0	µg/L	1		SW-846 8260C	1/31/13	1/31/13 16:31	LBD
Acrylonitrile	ND	2.0	µg/L	1		SW-846 8260C	1/31/13	1/31/13 16:31	LBD
Benzene	ND	0.50	µg/L	1		SW-846 8260C	1/31/13	1/31/13 16:31	LBD
Bromobenzene	ND	0.50	µg/L	1		SW-846 8260C	1/31/13	1/31/13 16:31	LBD
Bromodichloromethane	ND	2.0	µg/L	1		SW-846 8260C	1/31/13	1/31/13 16:31	LBD
Bromoform	ND	0.50	µg/L	1		SW-846 8260C	1/31/13	1/31/13 16:31	LBD
Bromomethane	ND	0.50	µg/L	1		SW-846 8260C	1/31/13	1/31/13 16:31	LBD
2-Butanone (MEK)	ND	5.0	µg/L	1		SW-846 8260C	1/31/13	1/31/13 16:31	LBD
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	1/31/13	1/31/13 16:31	LBD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	1/31/13	1/31/13 16:31	LBD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	1/31/13	1/31/13 16:31	LBD
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260C	1/31/13	1/31/13 16:31	LBD
Carbon Tetrachloride	ND	0.50	µg/L	1		SW-846 8260C	1/31/13	1/31/13 16:31	LBD
Chlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	1/31/13	1/31/13 16:31	LBD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	1/31/13	1/31/13 16:31	LBD
Chloroethane	ND	0.50	µg/L	1		SW-846 8260C	1/31/13	1/31/13 16:31	LBD
Chloroform	ND	0.50	µg/L	1		SW-846 8260C	1/31/13	1/31/13 16:31	LBD
Chloromethane	ND	0.50	µg/L	1	L-03, V-05	SW-846 8260C	1/31/13	1/31/13 16:31	LBD
2-Chlorotoluene	ND	0.50	µg/L	1		SW-846 8260C	1/31/13	1/31/13 16:31	LBD
4-Chlorotoluene	ND	0.50	µg/L	1		SW-846 8260C	1/31/13	1/31/13 16:31	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	1.0	µg/L	1		SW-846 8260C	1/31/13	1/31/13 16:31	LBD
1,2-Dibromoethane (EDB)	ND	1.0	µg/L	1		SW-846 8260C	1/31/13	1/31/13 16:31	LBD
Dibromomethane	ND	0.50	µg/L	1		SW-846 8260C	1/31/13	1/31/13 16:31	LBD
1,2-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	1/31/13	1/31/13 16:31	LBD
1,3-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	1/31/13	1/31/13 16:31	LBD
1,4-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	1/31/13	1/31/13 16:31	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1	L-03	SW-846 8260C	1/31/13	1/31/13 16:31	LBD
Dichlorodifluoromethane (Freon 12)	ND	0.50	µg/L	1		SW-846 8260C	1/31/13	1/31/13 16:31	LBD
1,1-Dichloroethane	ND	0.50	µg/L	1		SW-846 8260C	1/31/13	1/31/13 16:31	LBD
1,2-Dichloroethane	ND	0.50	µg/L	1		SW-846 8260C	1/31/13	1/31/13 16:31	LBD
1,1-Dichloroethylene	ND	0.50	µg/L	1		SW-846 8260C	1/31/13	1/31/13 16:31	LBD
cis-1,2-Dichloroethylene	ND	0.50	µg/L	1		SW-846 8260C	1/31/13	1/31/13 16:31	LBD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	1/31/13	1/31/13 16:31	LBD
1,2-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	1/31/13	1/31/13 16:31	LBD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	1/31/13	1/31/13 16:31	LBD
2,2-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	1/31/13	1/31/13 16:31	LBD
1,1-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	1/31/13	1/31/13 16:31	LBD
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	1/31/13	1/31/13 16:31	LBD
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	1/31/13	1/31/13 16:31	LBD
Ethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	1/31/13	1/31/13 16:31	LBD
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260C	1/31/13	1/31/13 16:31	LBD
2-Hexanone (MBK)	ND	5.0	µg/L	1		SW-846 8260C	1/31/13	1/31/13 16:31	LBD
Isopropylbenzene (Cumene)	ND	0.50	µg/L	1		SW-846 8260C	1/31/13	1/31/13 16:31	LBD
p-Isopropyltoluene (p-Cymene)	ND	0.50	µg/L	1		SW-846 8260C	1/31/13	1/31/13 16:31	LBD



Project Location: Mystic, CT

Sample Description:

Work Order: 13A0745

Date Received: 1/29/2013

Field Sample #: 1273927

Sampled: 1/29/2013 15:00

Sample ID: 13A0745-12

Sample Matrix: Equipment Blank Water

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.50	µg/L	1		SW-846 8260C	1/31/13	1/31/13 16:31	LBD
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	1/31/13	1/31/13 16:31	LBD
4-Methyl-2-pentanone (MIBK)	ND	5.0	µg/L	1		SW-846 8260C	1/31/13	1/31/13 16:31	LBD
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	1/31/13	1/31/13 16:31	LBD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	1/31/13	1/31/13 16:31	LBD
Styrene	ND	1.0	µg/L	1		SW-846 8260C	1/31/13	1/31/13 16:31	LBD
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	1/31/13	1/31/13 16:31	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	1/31/13	1/31/13 16:31	LBD
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	1/31/13	1/31/13 16:31	LBD
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	1/31/13	1/31/13 16:31	LBD
Toluene	ND	1.0	µg/L	1		SW-846 8260C	1/31/13	1/31/13 16:31	LBD
1,2,3-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	1/31/13	1/31/13 16:31	LBD
1,2,4-Trichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	1/31/13	1/31/13 16:31	LBD
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	1/31/13	1/31/13 16:31	LBD
1,1,2-Trichloroethane	ND	0.50	µg/L	1		SW-846 8260C	1/31/13	1/31/13 16:31	LBD
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	1/31/13	1/31/13 16:31	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	1/31/13	1/31/13 16:31	LBD
1,2,3-Trichloropropane	ND	0.50	µg/L	1		SW-846 8260C	1/31/13	1/31/13 16:31	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	µg/L	1		SW-846 8260C	1/31/13	1/31/13 16:31	LBD
1,2,4-Trimethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	1/31/13	1/31/13 16:31	LBD
1,3,5-Trimethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	1/31/13	1/31/13 16:31	LBD
Vinyl Chloride	ND	1.0	µg/L	1		SW-846 8260C	1/31/13	1/31/13 16:31	LBD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	1/31/13	1/31/13 16:31	LBD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	1/31/13	1/31/13 16:31	LBD
Surrogates	% Recovery	Recovery Limits	Flag						
1,2-Dichloroethane-d4	98.0	70-130							
Toluene-d8	100	70-130							
4-Bromofluorobenzene	96.0	70-130							



Project Location: Mystic, CT

Sample Description:

Work Order: 13A0745

Date Received: 1/29/2013

Field Sample #: 1273927

Sampled: 1/29/2013 15:00

Sample ID: 13A0745-12

Sample Matrix: Equipment Blank Water

## Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene (low)	ND	0.30	µg/L	1		SW-846 8270D	2/1/13	2/4/13 14:43	BGL
Acenaphthylene (low)	ND	0.30	µg/L	1		SW-846 8270D	2/1/13	2/4/13 14:43	BGL
Anthracene (low)	ND	0.20	µg/L	1		SW-846 8270D	2/1/13	2/4/13 14:43	BGL
Benzo(a)anthracene (low)	ND	0.050	µg/L	1	B-05	SW-846 8270D	2/1/13	2/4/13 14:43	BGL
Benzo(a)pyrene (low)	ND	0.10	µg/L	1		SW-846 8270D	2/1/13	2/4/13 14:43	BGL
Benzo(b)fluoranthene (low)	ND	0.050	µg/L	1	B-05	SW-846 8270D	2/1/13	2/4/13 14:43	BGL
Benzo(g,h,i)perylene (low)	ND	0.50	µg/L	1		SW-846 8270D	2/1/13	2/4/13 14:43	BGL
Benzo(k)fluoranthene (low)	ND	0.20	µg/L	1		SW-846 8270D	2/1/13	2/4/13 14:43	BGL
Chrysene (low)	ND	0.20	µg/L	1		SW-846 8270D	2/1/13	2/4/13 14:43	BGL
Dibenz(a,h)anthracene (low)	ND	0.20	µg/L	1		SW-846 8270D	2/1/13	2/4/13 14:43	BGL
Fluoranthene (low)	ND	0.50	µg/L	1		SW-846 8270D	2/1/13	2/4/13 14:43	BGL
Fluorene (low)	ND	1.0	µg/L	1		SW-846 8270D	2/1/13	2/4/13 14:43	BGL
Indeno(1,2,3-cd)pyrene (low)	ND	0.20	µg/L	1		SW-846 8270D	2/1/13	2/4/13 14:43	BGL
2-Methylnaphthalene (low)	ND	1.0	µg/L	1		SW-846 8270D	2/1/13	2/4/13 14:43	BGL
Naphthalene (low)	ND	1.0	µg/L	1		SW-846 8270D	2/1/13	2/4/13 14:43	BGL
Phenanthrene (low)	ND	0.050	µg/L	1	B-05	SW-846 8270D	2/1/13	2/4/13 14:43	BGL
Pyrene (low)	ND	1.0	µg/L	1		SW-846 8270D	2/1/13	2/4/13 14:43	BGL
Surrogates	% Recovery	Recovery Limits	Flag						
Nitrobenzene-d5 (low)	87.2	30-130							
2-Fluorobiphenyl (low)	85.2	30-130							
Terphenyl-d14 (low)	77.7	30-130							



Project Location: Mystic, CT

Sample Description:

Work Order: 13A0745

Date Received: 1/29/2013

Field Sample #: 1273927

Sampled: 1/29/2013 15:00

Sample ID: 13A0745-12

Sample Matrix: Equipment Blank Water

### Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	2/1/13	2/4/13 16:13	MJC
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	2/1/13	2/4/13 16:13	MJC
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	2/1/13	2/4/13 16:13	MJC
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	2/1/13	2/4/13 16:13	MJC
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	2/1/13	2/4/13 16:13	MJC
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	2/1/13	2/4/13 16:13	MJC
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	2/1/13	2/4/13 16:13	MJC
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	2/1/13	2/4/13 16:13	MJC
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	2/1/13	2/4/13 16:13	MJC
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	74.2	30-150							
Decachlorobiphenyl [2]	75.4	30-150							
Tetrachloro-m-xylene [1]	71.6	30-150							
Tetrachloro-m-xylene [2]	71.9	30-150							



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

Project Location: Mystic, CT

Sample Description:

Work Order: 13A0745

Date Received: 1/29/2013

Field Sample #: 1273927

Sampled: 1/29/2013 15:00

Sample ID: 13A0745-12

Sample Matrix: Equipment Blank Water

**Petroleum Hydrocarbons Analyses**

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	ND	0.075	mg/L	1		CTDEP ETPH	2/4/13	2/5/13 19:39	SCS
Surrogates	% Recovery		Recovery Limits		Flag				
o-Terphenyl	76.6		50-150			2/5/13 19:39			



Project Location: Mystic, CT

Sample Description:

Work Order: 13A0745

Date Received: 1/29/2013

Field Sample #: 1273928 UF

Sampled: 1/29/2013 15:00

Sample ID: 13A0745-13

Sample Matrix: Equipment Blank Water

**Metals Analyses (Total)**

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	2.0	µg/L	5		SW-846 6020A	1/31/13	2/1/13 14:03	AMP
Barium	ND	50	µg/L	5		SW-846 6020A	1/31/13	2/1/13 14:03	AMP
Cadmium	ND	2.5	µg/L	5		SW-846 6020A	1/31/13	2/1/13 14:03	AMP
Chromium	ND	5.0	µg/L	5		SW-846 6020A	1/31/13	2/1/13 14:03	AMP
Copper	ND	25	µg/L	5		SW-846 6020A	1/31/13	2/1/13 14:03	AMP
Lead	ND	5.0	µg/L	5		SW-846 6020A	1/31/13	2/1/13 14:03	AMP
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	1/31/13	2/1/13 12:05	SAJ
Nickel	ND	25	µg/L	5		SW-846 6020A	1/31/13	2/1/13 14:03	AMP
Selenium	ND	25	µg/L	5		SW-846 6020A	1/31/13	2/1/13 14:03	AMP
Silver	ND	2.5	µg/L	5		SW-846 6020A	1/31/13	2/1/13 14:03	AMP
Zinc	ND	50	µg/L	5		SW-846 6020A	1/31/13	2/1/13 14:03	AMP



### Sample Extraction Data

**Prep Method: SW-846 3546-CTDEP ETPH**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13A0745-01 [1273861]	B067185	30.0	1.00	02/04/13
13A0745-03 [1273863]	B067185	30.5	1.00	02/04/13
13A0745-04 [1273864]	B067185	30.5	1.00	02/04/13
13A0745-05 [1273865]	B067185	30.3	1.00	02/04/13
13A0745-06 [1273866]	B067185	30.4	1.00	02/04/13
13A0745-07 [1273867]	B067185	30.3	1.00	02/04/13
13A0745-08 [1273868]	B067185	30.1	1.00	02/04/13
13A0745-09 [1273869]	B067185	30.1	1.00	02/04/13
13A0745-10 [1273870]	B067185	30.1	1.00	02/04/13

**Prep Method: SW-846 3510C-CTDEP ETPH**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13A0745-12 [1273927]	B067154	1000	1.00	02/04/13

**Prep Method: % Solids-SM 2540G**

Lab Number [Field ID]	Batch	Date
13A0745-01 [1273861]	B066947	01/30/13
13A0745-02 [1273862]	B066947	01/30/13
13A0745-03 [1273863]	B066947	01/30/13
13A0745-04 [1273864]	B066947	01/30/13
13A0745-05 [1273865]	B066947	01/30/13
13A0745-06 [1273866]	B066947	01/30/13
13A0745-07 [1273867]	B066947	01/30/13
13A0745-08 [1273868]	B066947	01/30/13
13A0745-09 [1273869]	B066947	01/30/13
13A0745-10 [1273870]	B066947	01/30/13

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13A0745-01 [1273861]	B066971	1.04	50.0	01/31/13
13A0745-02 [1273862]	B066971	1.06	50.0	01/31/13
13A0745-03 [1273863]	B066971	1.04	50.0	01/31/13
13A0745-04 [1273864]	B066971	1.08	50.0	01/31/13
13A0745-05 [1273865]	B066971	1.01	50.0	01/31/13
13A0745-06 [1273866]	B066971	1.03	50.0	01/31/13
13A0745-07 [1273867]	B066971	1.00	50.0	01/31/13
13A0745-08 [1273868]	B066971	1.02	50.0	01/31/13
13A0745-10 [1273870]	B066971	1.02	50.0	01/31/13

**Prep Method: SW-846 3005A-SW-846 6020A**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13A0745-13 [1273928 UF]	B067031	50.0	50.0	01/31/13



**Sample Extraction Data****Prep Method: SW-846 7470A Prep-SW-846 7470A**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13A0745-13 [1273928 UF]	B066975	6.00	6.00	01/31/13

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13A0745-01 [1273861]	B067008	0.619	50.0	01/31/13
13A0745-02 [1273862]	B067008	0.603	50.0	01/31/13
13A0745-03 [1273863]	B067008	0.617	50.0	01/31/13
13A0745-04 [1273864]	B067008	0.606	50.0	01/31/13
13A0745-05 [1273865]	B067008	0.608	50.0	01/31/13
13A0745-06 [1273866]	B067008	0.605	50.0	01/31/13
13A0745-07 [1273867]	B067008	0.615	50.0	01/31/13
13A0745-08 [1273868]	B067008	0.616	50.0	01/31/13
13A0745-10 [1273870]	B067008	0.609	50.0	01/31/13

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13A0745-07 [1273867]	B067035	10.2	10.0	02/01/13
13A0745-08 [1273868]	B067035	10.3	10.0	02/01/13

**Prep Method: SW-846 3510C-SW-846 8082A**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13A0745-12 [1273927]	B067108	1000	10.0	02/01/13

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13A0745-01 [1273861]	B067034	5.60	10.0	01/31/13
13A0745-02 [1273862]	B067034	10.7	10.0	01/31/13
13A0745-03 [1273863]	B067034	6.24	10.0	01/31/13
13A0745-04 [1273864]	B067034	6.27	10.0	01/31/13
13A0745-05 [1273865]	B067034	6.59	10.0	01/31/13
13A0745-06 [1273866]	B067034	14.6	10.0	01/31/13
13A0745-07 [1273867]	B067034	7.79	10.0	01/31/13
13A0745-08 [1273868]	B067034	10.6	10.0	01/31/13
13A0745-09 [1273869]	B067034	10.4	10.0	01/31/13
13A0745-10 [1273870]	B067034	5.66	10.0	01/31/13

**Prep Method: SW-846 5030B-SW-846 8260C**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13A0745-12 [1273927]	B066980	5	5.00	01/31/13



**Sample Extraction Data****Prep Method: SW-846 3546-SW-846 8270D**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13A0745-01 [1273861]	B067172	30.1	1.00	02/04/13
13A0745-02 [1273862]	B067172	30.1	1.00	02/04/13
13A0745-03 [1273863]	B067172	30.7	1.00	02/04/13
13A0745-04 [1273864]	B067172	30.6	1.00	02/04/13
13A0745-05 [1273865]	B067172	30.7	1.00	02/04/13
13A0745-06 [1273866]	B067172	30.1	1.00	02/04/13
13A0745-07 [1273867]	B067172	30.7	1.00	02/04/13
13A0745-08 [1273868]	B067172	30.0	1.00	02/04/13
13A0745-09 [1273869]	B067172	30.4	1.00	02/04/13
13A0745-10 [1273870]	B067172	30.5	1.00	02/04/13

**Prep Method: SW-846 3510C-SW-846 8270D**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13A0745-12 [1273927]	B067039	1000	1.00	02/01/13



**QUALITY CONTROL**
**Volatile Organic Compounds by GC/MS - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B066980 - SW-846 5030B</b>										
<b>Blank (B066980-BLK1)</b>				Prepared & Analyzed: 01/31/13						
Acetone	ND	5.0	µg/L							
Acrylonitrile	ND	2.0	µg/L							
Benzene	ND	0.50	µg/L							
Bromobenzene	ND	0.50	µg/L							
Bromodichloromethane	ND	2.0	µg/L							
Bromoform	ND	0.50	µg/L							
Bromomethane	ND	0.50	µg/L							
2-Butanone (MEK)	ND	5.0	µg/L							
n-Butylbenzene	ND	1.0	µg/L							
sec-Butylbenzene	ND	1.0	µg/L							
tert-Butylbenzene	ND	1.0	µg/L							
Carbon Disulfide	ND	5.0	µg/L							
Carbon Tetrachloride	ND	0.50	µg/L							
Chlorobenzene	ND	0.50	µg/L							
Chlorodibromomethane	ND	0.50	µg/L							
Chloroethane	ND	0.50	µg/L							
Chloroform	ND	0.50	µg/L							
Chloromethane	ND	0.50	µg/L							L-03, V-05
2-Chlorotoluene	ND	0.50	µg/L							
4-Chlorotoluene	ND	0.50	µg/L							
1,2-Dibromo-3-chloropropane (DBCP)	ND	1.0	µg/L							
1,2-Dibromoethane (EDB)	ND	1.0	µg/L							
Dibromomethane	ND	0.50	µg/L							
1,2-Dichlorobenzene	ND	0.50	µg/L							
1,3-Dichlorobenzene	ND	0.50	µg/L							
1,4-Dichlorobenzene	ND	0.50	µg/L							
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L							L-03
Dichlorodifluoromethane (Freon 12)	ND	0.50	µg/L							
1,1-Dichloroethane	ND	0.50	µg/L							
1,2-Dichloroethane	ND	0.50	µg/L							
1,1-Dichloroethylene	ND	0.50	µg/L							
cis-1,2-Dichloroethylene	ND	0.50	µg/L							
trans-1,2-Dichloroethylene	ND	1.0	µg/L							
1,2-Dichloropropane	ND	0.50	µg/L							
1,3-Dichloropropane	ND	0.50	µg/L							
2,2-Dichloropropane	ND	0.50	µg/L							
1,1-Dichloropropene	ND	0.50	µg/L							
cis-1,3-Dichloropropene	ND	0.50	µg/L							
trans-1,3-Dichloropropene	ND	0.50	µg/L							
Ethylbenzene	ND	0.50	µg/L							
Hexachlorobutadiene	ND	0.50	µg/L							
2-Hexanone (MBK)	ND	5.0	µg/L							
Isopropylbenzene (Cumene)	ND	0.50	µg/L							
p-Isopropyltoluene (p-Cymene)	ND	0.50	µg/L							
Methyl tert-Butyl Ether (MTBE)	ND	0.50	µg/L							
Methylene Chloride	ND	5.0	µg/L							
4-Methyl-2-pentanone (MIBK)	ND	5.0	µg/L							
Naphthalene	ND	2.0	µg/L							
n-Propylbenzene	ND	1.0	µg/L							
Styrene	ND	1.0	µg/L							
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L							
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L							



**QUALITY CONTROL**
**Volatile Organic Compounds by GC/MS - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B066980 - SW-846 5030B</b>										
<b>Blank (B066980-BLK1)</b>				Prepared & Analyzed: 01/31/13						
Tetrachloroethylene	ND	1.0	µg/L							
Tetrahydrofuran	ND	10	µg/L							
Toluene	ND	1.0	µg/L							
1,2,3-Trichlorobenzene	ND	1.0	µg/L							
1,2,4-Trichlorobenzene	ND	0.50	µg/L							
1,1,1-Trichloroethane	ND	1.0	µg/L							
1,1,2-Trichloroethane	ND	0.50	µg/L							
Trichloroethylene	ND	1.0	µg/L							
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L							
1,2,3-Trichloropropane	ND	0.50	µg/L							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	µg/L							
1,2,4-Trimethylbenzene	ND	0.50	µg/L							
1,3,5-Trimethylbenzene	ND	0.50	µg/L							
Vinyl Chloride	ND	1.0	µg/L							
m+p Xylene	ND	2.0	µg/L							
o-Xylene	ND	1.0	µg/L							
Surrogate: 1,2-Dichloroethane-d4	24.2		µg/L	25.0		97.0	70-130			
Surrogate: Toluene-d8	24.6		µg/L	25.0		98.6	70-130			
Surrogate: 4-Bromofluorobenzene	23.9		µg/L	25.0		95.4	70-130			
<b>LCS (B066980-BS1)</b>				Prepared & Analyzed: 01/31/13						
Acetone	104	5.0	µg/L	100		104	70-130			
Acrylonitrile	10.6	2.0	µg/L	10.0		106	70-130			
Benzene	10.2	0.50	µg/L	10.0		102	70-130			
Bromobenzene	10.4	0.50	µg/L	10.0		104	70-130			
Bromodichloromethane	9.64	2.0	µg/L	10.0		96.4	70-130			
Bromoform	8.08	0.50	µg/L	10.0		80.8	70-130			
Bromomethane	10.1	0.50	µg/L	10.0		101	70-130			
2-Butanone (MEK)	102	5.0	µg/L	100		102	70-130			
n-Butylbenzene	10.3	1.0	µg/L	10.0		103	70-130			
sec-Butylbenzene	10.8	1.0	µg/L	10.0		108	70-130			
tert-Butylbenzene	11.0	1.0	µg/L	10.0		110	70-130			
Carbon Disulfide	9.31	5.0	µg/L	10.0		93.1	70-130			
Carbon Tetrachloride	9.59	0.50	µg/L	10.0		95.9	70-130			
Chlorobenzene	11.2	0.50	µg/L	10.0		112	70-130			
Chlorodibromomethane	8.99	0.50	µg/L	10.0		89.9	70-130			
Chloroethane	10.3	0.50	µg/L	10.0		103	70-130			
Chloroform	10.7	0.50	µg/L	10.0		107	70-130			
<b>Chloromethane</b>	5.67	0.50	µg/L	10.0		<b>56.7</b> *	70-130			L-03, V-05
2-Chlorotoluene	10.9	0.50	µg/L	10.0		109	70-130			
4-Chlorotoluene	11.1	0.50	µg/L	10.0		111	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	7.50	1.0	µg/L	10.0		75.0	70-130			
1,2-Dibromoethane (EDB)	9.82	1.0	µg/L	10.0		98.2	70-130			
Dibromomethane	11.1	0.50	µg/L	10.0		111	70-130			
1,2-Dichlorobenzene	11.0	0.50	µg/L	10.0		110	70-130			
1,3-Dichlorobenzene	10.8	0.50	µg/L	10.0		108	70-130			
1,4-Dichlorobenzene	9.88	0.50	µg/L	10.0		98.8	70-130			
<b>trans-1,4-Dichloro-2-butene</b>	6.65	2.0	µg/L	10.0		<b>66.5</b> *	70-130			L-03
Dichlorodifluoromethane (Freon 12)	7.92	0.50	µg/L	10.0		79.2	70-130			
1,1-Dichloroethane	10.6	0.50	µg/L	10.0		106	70-130			
1,2-Dichloroethane	10.7	0.50	µg/L	10.0		107	70-130			
1,1-Dichloroethylene	9.77	0.50	µg/L	10.0		97.7	70-130			



**QUALITY CONTROL**
**Volatile Organic Compounds by GC/MS - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B066980 - SW-846 5030B**
**LCS (B066980-BS1)**

Prepared &amp; Analyzed: 01/31/13

cis-1,2-Dichloroethylene	9.63	0.50	µg/L	10.0		96.3	70-130			
trans-1,2-Dichloroethylene	10.6	1.0	µg/L	10.0		106	70-130			
1,2-Dichloropropane	10.0	0.50	µg/L	10.0		100	70-130			
1,3-Dichloropropane	10.2	0.50	µg/L	10.0		102	70-130			
2,2-Dichloropropane	8.02	0.50	µg/L	10.0		80.2	70-130			
1,1-Dichloropropene	10.3	0.50	µg/L	10.0		103	70-130			
cis-1,3-Dichloropropene	7.66	0.50	µg/L	10.0		76.6	70-130			
trans-1,3-Dichloropropene	7.55	0.50	µg/L	10.0		75.5	70-130			
Ethylbenzene	10.3	0.50	µg/L	10.0		103	70-130			
Hexachlorobutadiene	10.6	0.50	µg/L	10.0		106	70-130			
2-Hexanone (MBK)	104	5.0	µg/L	100		104	70-130			
Isopropylbenzene (Cumene)	11.1	0.50	µg/L	10.0		111	70-130			
p-Isopropyltoluene (p-Cymene)	10.8	0.50	µg/L	10.0		108	70-130			
Methyl tert-Butyl Ether (MTBE)	11.2	0.50	µg/L	10.0		112	70-130			
Methylene Chloride	9.72	5.0	µg/L	10.0		97.2	70-130			
4-Methyl-2-pentanone (MIBK)	105	5.0	µg/L	100		105	70-130			
Naphthalene	8.86	2.0	µg/L	10.0		88.6	70-130			
n-Propylbenzene	11.0	1.0	µg/L	10.0		110	70-130			
Styrene	9.98	1.0	µg/L	10.0		99.8	70-130			
1,1,1,2-Tetrachloroethane	9.35	1.0	µg/L	10.0		93.5	70-130			
1,1,2,2-Tetrachloroethane	10.3	0.50	µg/L	10.0		103	70-130			
Tetrachloroethylene	10.9	1.0	µg/L	10.0		109	70-130			
Tetrahydrofuran	9.83	10	µg/L	10.0		98.3	70-130			
Toluene	10.7	1.0	µg/L	10.0		107	70-130			
1,2,3-Trichlorobenzene	7.80	1.0	µg/L	10.0		78.0	70-130			
1,2,4-Trichlorobenzene	7.82	0.50	µg/L	10.0		78.2	70-130			
1,1,1-Trichloroethane	9.34	1.0	µg/L	10.0		93.4	70-130			
1,1,2-Trichloroethane	10.3	0.50	µg/L	10.0		103	70-130			
Trichloroethylene	10.3	1.0	µg/L	10.0		103	70-130			
Trichlorofluoromethane (Freon 11)	12.0	2.0	µg/L	10.0		120	70-130			
1,2,3-Trichloropropane	10.4	0.50	µg/L	10.0		104	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.9	0.50	µg/L	10.0		109	70-130			
1,2,4-Trimethylbenzene	10.2	0.50	µg/L	10.0		102	70-130			
1,3,5-Trimethylbenzene	10.4	0.50	µg/L	10.0		104	70-130			
Vinyl Chloride	9.47	1.0	µg/L	10.0		94.7	70-130			
m+p Xylene	21.6	2.0	µg/L	20.0		108	70-130			
o-Xylene	11.1	1.0	µg/L	10.0		111	70-130			
Surrogate: 1,2-Dichloroethane-d4	24.4		µg/L	25.0		97.8	70-130			
Surrogate: Toluene-d8	25.5		µg/L	25.0		102	70-130			
Surrogate: 4-Bromofluorobenzene	25.0		µg/L	25.0		100	70-130			

**Batch B067034 - SW-846 5035**
**Blank (B067034-BLK1)**

Prepared &amp; Analyzed: 02/01/13

Acetone	ND	0.10	mg/Kg wet							
Acrylonitrile	ND	0.0060	mg/Kg wet							V-16
Benzene	ND	0.0020	mg/Kg wet							
Bromobenzene	ND	0.0020	mg/Kg wet							
Bromodichloromethane	ND	0.0020	mg/Kg wet							
Bromoform	ND	0.0020	mg/Kg wet							
Bromomethane	ND	0.010	mg/Kg wet							
2-Butanone (MEK)	ND	0.040	mg/Kg wet							



**QUALITY CONTROL**
**Volatile Organic Compounds by GC/MS - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B067034 - SW-846 5035</b>										
<b>Blank (B067034-BLK1)</b>				Prepared & Analyzed: 02/01/13						
n-Butylbenzene	ND	0.0020	mg/Kg wet							
sec-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butylbenzene	ND	0.0020	mg/Kg wet							
Carbon Disulfide	ND	0.0060	mg/Kg wet							
Carbon Tetrachloride	ND	0.0020	mg/Kg wet							
Chlorobenzene	ND	0.0020	mg/Kg wet							
Chlorodibromomethane	ND	0.0010	mg/Kg wet							
Chloroethane	ND	0.020	mg/Kg wet							
Chloroform	ND	0.0040	mg/Kg wet							
Chloromethane	ND	0.010	mg/Kg wet							L-03
2-Chlorotoluene	ND	0.0020	mg/Kg wet							
4-Chlorotoluene	ND	0.0020	mg/Kg wet							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg wet							V-16
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet							
Dibromomethane	ND	0.0020	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet							
trans-1,4-Dichloro-2-butene	ND	0.0040	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.020	mg/Kg wet							L-03
1,1-Dichloroethane	ND	0.0020	mg/Kg wet							
1,2-Dichloroethane	ND	0.0020	mg/Kg wet							
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
1,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,3-Dichloropropane	ND	0.0010	mg/Kg wet							
2,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,1-Dichloropropene	ND	0.0020	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
Ethylbenzene	ND	0.0020	mg/Kg wet							
Hexachlorobutadiene	ND	0.0020	mg/Kg wet							
2-Hexanone (MBK)	ND	0.020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet							
Methylene Chloride	ND	0.020	mg/Kg wet							
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet							
Naphthalene	ND	0.0040	mg/Kg wet							
n-Propylbenzene	ND	0.0020	mg/Kg wet							
Styrene	ND	0.0020	mg/Kg wet							
1,1,1,2-Tetrachloroethane	ND	0.0020	mg/Kg wet							
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg wet							
Tetrachloroethylene	ND	0.0020	mg/Kg wet							
Tetrahydrofuran	ND	0.010	mg/Kg wet							V-16
Toluene	ND	0.0020	mg/Kg wet							
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet							
1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet							
Trichloroethylene	ND	0.0020	mg/Kg wet							



**QUALITY CONTROL**
**Volatile Organic Compounds by GC/MS - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B067034 - SW-846 5035</b>										
<b>Blank (B067034-BLK1)</b>				Prepared & Analyzed: 02/01/13						
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet							
1,2,3-Trichloropropane	ND	0.0020	mg/Kg wet							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet							
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg wet							
Vinyl Chloride	ND	0.010	mg/Kg wet							L-03
m+p Xylene	ND	0.0040	mg/Kg wet							
o-Xylene	ND	0.0020	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0558		mg/Kg wet	0.0500		112	70-130			
Surrogate: Toluene-d8	0.0499		mg/Kg wet	0.0500		99.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.0479		mg/Kg wet	0.0500		95.9	70-130			
<b>LCS (B067034-BS1)</b>				Prepared & Analyzed: 02/01/13						
Acetone	0.150	0.10	mg/Kg wet	0.200		74.8	70-130			
Acrylonitrile	0.0145	0.0060	mg/Kg wet	0.0200		72.7	70-130			V-16
Benzene	0.0176	0.0020	mg/Kg wet	0.0200		87.8	70-130			
Bromobenzene	0.0180	0.0020	mg/Kg wet	0.0200		90.2	70-130			
Bromodichloromethane	0.0166	0.0020	mg/Kg wet	0.0200		83.1	70-130			
Bromoform	0.0161	0.0020	mg/Kg wet	0.0200		80.4	70-130			
Bromomethane	0.0172	0.010	mg/Kg wet	0.0200		85.8	70-130			V-20
2-Butanone (MEK)	0.152	0.040	mg/Kg wet	0.200		76.0	70-130			
n-Butylbenzene	0.0207	0.0020	mg/Kg wet	0.0200		103	70-130			
sec-Butylbenzene	0.0205	0.0020	mg/Kg wet	0.0200		103	70-130			
tert-Butylbenzene	0.0201	0.0020	mg/Kg wet	0.0200		100	70-130			
Carbon Disulfide	0.0154	0.0060	mg/Kg wet	0.0200		77.0	70-130			
Carbon Tetrachloride	0.0190	0.0020	mg/Kg wet	0.0200		95.0	70-130			
Chlorobenzene	0.0173	0.0020	mg/Kg wet	0.0200		86.3	70-130			
Chlorodibromomethane	0.0160	0.0010	mg/Kg wet	0.0200		80.2	70-130			
Chloroethane	0.0174	0.020	mg/Kg wet	0.0200		87.2	70-130			
Chloroform	0.0189	0.0040	mg/Kg wet	0.0200		94.7	70-130			
<b>Chloromethane</b>	0.0138	0.010	mg/Kg wet	0.0200		<b>69.2</b>	* 70-130			L-03
2-Chlorotoluene	0.0186	0.0020	mg/Kg wet	0.0200		92.9	70-130			
4-Chlorotoluene	0.0193	0.0020	mg/Kg wet	0.0200		96.5	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.0154	0.0020	mg/Kg wet	0.0200		77.0	70-130			V-16
1,2-Dibromoethane (EDB)	0.0171	0.0010	mg/Kg wet	0.0200		85.7	70-130			
Dibromomethane	0.0176	0.0020	mg/Kg wet	0.0200		88.1	70-130			
1,2-Dichlorobenzene	0.0190	0.0020	mg/Kg wet	0.0200		95.2	70-130			
1,3-Dichlorobenzene	0.0188	0.0020	mg/Kg wet	0.0200		93.9	70-130			
1,4-Dichlorobenzene	0.0195	0.0020	mg/Kg wet	0.0200		97.5	70-130			
trans-1,4-Dichloro-2-butene	0.0173	0.0040	mg/Kg wet	0.0200		86.4	70-130			
<b>Dichlorodifluoromethane (Freon 12)</b>	0.0107	0.020	mg/Kg wet	0.0200		<b>53.4</b>	* 70-130			L-03
1,1-Dichloroethane	0.0174	0.0020	mg/Kg wet	0.0200		87.0	70-130			
1,2-Dichloroethane	0.0186	0.0020	mg/Kg wet	0.0200		93.0	70-130			
1,1-Dichloroethylene	0.0161	0.0040	mg/Kg wet	0.0200		80.5	70-130			
cis-1,2-Dichloroethylene	0.0175	0.0020	mg/Kg wet	0.0200		87.5	70-130			
trans-1,2-Dichloroethylene	0.0176	0.0020	mg/Kg wet	0.0200		88.0	70-130			
1,2-Dichloropropane	0.0173	0.0020	mg/Kg wet	0.0200		86.5	70-130			
1,3-Dichloropropane	0.0166	0.0010	mg/Kg wet	0.0200		82.9	70-130			
2,2-Dichloropropane	0.0158	0.0020	mg/Kg wet	0.0200		79.1	70-130			
1,1-Dichloropropene	0.0189	0.0020	mg/Kg wet	0.0200		94.7	70-130			
cis-1,3-Dichloropropene	0.0156	0.0010	mg/Kg wet	0.0200		78.1	70-130			
trans-1,3-Dichloropropene	0.0160	0.0010	mg/Kg wet	0.0200		80.2	70-130			



**QUALITY CONTROL**
**Volatile Organic Compounds by GC/MS - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B067034 - SW-846 5035</b>										
<b>LCS (B067034-BS1)</b>				Prepared & Analyzed: 02/01/13						
Ethylbenzene	0.0188	0.0020	mg/Kg wet	0.0200		93.9	70-130			
Hexachlorobutadiene	0.0198	0.0020	mg/Kg wet	0.0200		99.2	70-130			
2-Hexanone (MBK)	0.163	0.020	mg/Kg wet	0.200		81.7	70-130			
Isopropylbenzene (Cumene)	0.0182	0.0020	mg/Kg wet	0.0200		91.2	70-130			
p-Isopropyltoluene (p-Cymene)	0.0207	0.0020	mg/Kg wet	0.0200		104	70-130			
Methyl tert-Butyl Ether (MTBE)	0.0175	0.0040	mg/Kg wet	0.0200		87.7	70-130			
Methylene Chloride	0.0160	0.020	mg/Kg wet	0.0200		80.0	70-130			
4-Methyl-2-pentanone (MIBK)	0.171	0.020	mg/Kg wet	0.200		85.5	70-130			
Naphthalene	0.0157	0.0040	mg/Kg wet	0.0200		78.6	70-130			
n-Propylbenzene	0.0186	0.0020	mg/Kg wet	0.0200		93.0	70-130			
Styrene	0.0185	0.0020	mg/Kg wet	0.0200		92.7	70-130			
1,1,1,2-Tetrachloroethane	0.0181	0.0020	mg/Kg wet	0.0200		90.7	70-130			
1,1,2,2-Tetrachloroethane	0.0173	0.0010	mg/Kg wet	0.0200		86.5	70-130			
Tetrachloroethylene	0.0178	0.0020	mg/Kg wet	0.0200		88.8	70-130			
Tetrahydrofuran	0.0157	0.010	mg/Kg wet	0.0200		78.7	70-130			V-16
Toluene	0.0170	0.0020	mg/Kg wet	0.0200		85.2	70-130			
1,2,3-Trichlorobenzene	0.0189	0.0020	mg/Kg wet	0.0200		94.4	70-130			
1,2,4-Trichlorobenzene	0.0179	0.0020	mg/Kg wet	0.0200		89.6	70-130			
1,1,1-Trichloroethane	0.0182	0.0020	mg/Kg wet	0.0200		91.0	70-130			
1,1,2-Trichloroethane	0.0173	0.0020	mg/Kg wet	0.0200		86.4	70-130			
Trichloroethylene	0.0181	0.0020	mg/Kg wet	0.0200		90.6	70-130			
Trichlorofluoromethane (Freon 11)	0.0162	0.010	mg/Kg wet	0.0200		80.8	70-130			
1,2,3-Trichloropropane	0.0173	0.0020	mg/Kg wet	0.0200		86.7	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0182	0.010	mg/Kg wet	0.0200		90.9	70-130			
1,2,4-Trimethylbenzene	0.0203	0.0020	mg/Kg wet	0.0200		102	70-130			
1,3,5-Trimethylbenzene	0.0191	0.0020	mg/Kg wet	0.0200		95.5	70-130			
<b>Vinyl Chloride</b>	0.0132	0.010	mg/Kg wet	0.0200		<b>66.1</b>	* 70-130			L-03
m+p Xylene	0.0384	0.0040	mg/Kg wet	0.0400		96.0	70-130			
o-Xylene	0.0186	0.0020	mg/Kg wet	0.0200		93.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0560		mg/Kg wet	0.0500		112	70-130			
Surrogate: Toluene-d8	0.0513		mg/Kg wet	0.0500		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.0489		mg/Kg wet	0.0500		97.8	70-130			



**QUALITY CONTROL**
**Semivolatile Organic Compounds by GC/MS - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B067039 - SW-846 3510C</b>										
<b>Blank (B067039-BLK1)</b>				Prepared: 02/01/13 Analyzed: 02/02/13						
Acenaphthene (low)	ND	0.30	µg/L							
Acenaphthylene (low)	ND	0.30	µg/L							
Anthracene (low)	ND	0.20	µg/L							
Benzo(a)anthracene (low)	0.080	0.050	µg/L							B-05
Benzo(a)pyrene (low)	ND	0.10	µg/L							
Benzo(b)fluoranthene (low)	0.090	0.050	µg/L							B-05
Benzo(g,h,i)perylene (low)	ND	0.50	µg/L							
Benzo(k)fluoranthene (low)	ND	0.20	µg/L							
Chrysene (low)	ND	0.20	µg/L							
Dibenz(a,h)anthracene (low)	ND	0.20	µg/L							
Fluoranthene (low)	ND	0.50	µg/L							
Fluorene (low)	ND	1.0	µg/L							
Indeno(1,2,3-cd)pyrene (low)	ND	0.20	µg/L							V-20
2-Methylnaphthalene (low)	ND	1.0	µg/L							
Naphthalene (low)	ND	1.0	µg/L							
Phenanthrene (low)	0.37	0.050	µg/L							B-05
Pyrene (low)	ND	1.0	µg/L							
Surrogate: Nitrobenzene-d5 (low)	83.8		µg/L	100		83.8	30-130			
Surrogate: 2-Fluorobiphenyl (low)	79.2		µg/L	100		79.2	30-130			
Surrogate: Terphenyl-d14 (low)	84.8		µg/L	100		84.8	30-130			
<b>LCS (B067039-BS1)</b>				Prepared: 02/01/13 Analyzed: 02/04/13						
Acenaphthene (low)	80.5	7.5	µg/L	100		80.5	40-140			
Acenaphthylene (low)	81.6	7.5	µg/L	100		81.6	40-140			
Anthracene (low)	82.4	5.0	µg/L	100		82.4	40-140			
Benzo(a)anthracene (low)	84.2	1.2	µg/L	100		84.2	40-140			B
Benzo(a)pyrene (low)	84.4	2.5	µg/L	100		84.4	40-140			
Benzo(b)fluoranthene (low)	88.0	1.2	µg/L	100		88.0	40-140			B
Benzo(g,h,i)perylene (low)	82.3	12	µg/L	100		82.3	40-140			
Benzo(k)fluoranthene (low)	81.0	5.0	µg/L	100		81.0	40-140			
Chrysene (low)	76.6	5.0	µg/L	100		76.6	40-140			
Dibenz(a,h)anthracene (low)	86.0	5.0	µg/L	100		86.0	40-140			
Fluoranthene (low)	77.8	12	µg/L	100		77.8	40-140			
Fluorene (low)	82.2	25	µg/L	100		82.2	40-140			
Indeno(1,2,3-cd)pyrene (low)	87.1	5.0	µg/L	100		87.1	40-140			
2-Methylnaphthalene (low)	68.3	25	µg/L	100		68.3	40-140			
Naphthalene (low)	66.2	25	µg/L	100		66.2	40-140			
Phenanthrene (low)	73.4	1.2	µg/L	100		73.4	40-140			B
Pyrene (low)	80.2	25	µg/L	100		80.2	40-140			
Surrogate: Nitrobenzene-d5 (low)	78.0		µg/L	100		78.0	30-130			
Surrogate: 2-Fluorobiphenyl (low)	78.6		µg/L	100		78.6	30-130			
Surrogate: Terphenyl-d14 (low)	78.6		µg/L	100		78.6	30-130			



**QUALITY CONTROL**
**Semivolatile Organic Compounds by GC/MS - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B067039 - SW-846 3510C**
**LCS Dup (B067039-BSD1)**

Prepared: 02/01/13 Analyzed: 02/04/13

Acenaphthene (low)	86.0	7.5	µg/L	100		86.0	40-140	6.55	20	
Acenaphthylene (low)	87.1	7.5	µg/L	100		87.1	40-140	6.46	20	
Anthracene (low)	88.9	5.0	µg/L	100		88.9	40-140	7.62	20	
Benzo(a)anthracene (low)	90.8	1.2	µg/L	100		90.8	40-140	7.54	20	B
Benzo(a)pyrene (low)	91.2	2.5	µg/L	100		91.2	40-140	7.80	20	
Benzo(b)fluoranthene (low)	95.0	1.2	µg/L	100		95.0	40-140	7.68	20	B
Benzo(g,h,i)perylene (low)	89.0	12	µg/L	100		89.0	40-140	7.82	20	
Benzo(k)fluoranthene (low)	87.0	5.0	µg/L	100		87.0	40-140	7.23	20	
Chrysene (low)	82.3	5.0	µg/L	100		82.3	40-140	7.17	20	
Dibenz(a,h)anthracene (low)	92.2	5.0	µg/L	100		92.2	40-140	7.01	20	
Fluoranthene (low)	85.0	12	µg/L	100		85.0	40-140	8.81	20	
Fluorene (low)	88.4	25	µg/L	100		88.4	40-140	7.36	20	
Indeno(1,2,3-cd)pyrene (low)	94.2	5.0	µg/L	100		94.2	40-140	7.86	50	
2-Methylnaphthalene (low)	73.4	25	µg/L	100		73.4	40-140	7.23	20	
Naphthalene (low)	71.4	25	µg/L	100		71.4	40-140	7.67	20	
Phenanthrene (low)	78.3	1.2	µg/L	100		78.3	40-140	6.50	20	B
Pyrene (low)	85.2	25	µg/L	100		85.2	40-140	5.98	20	
Surrogate: Nitrobenzene-d5 (low)	82.9		µg/L	100		82.9	30-130			
Surrogate: 2-Fluorobiphenyl (low)	83.4		µg/L	100		83.4	30-130			
Surrogate: Terphenyl-d14 (low)	83.2		µg/L	100		83.2	30-130			

**Batch B067172 - SW-846 3546**
**Blank (B067172-BLK1)**

Prepared &amp; Analyzed: 02/04/13

Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Surrogate: Nitrobenzene-d5	3.31		mg/Kg wet	3.33		99.4	30-130			
Surrogate: 2-Fluorobiphenyl	3.37		mg/Kg wet	3.33		101	30-130			
Surrogate: Terphenyl-d14	4.38		mg/Kg wet	3.33		131 *	30-130			S-07



**QUALITY CONTROL**
**Semivolatile Organic Compounds by GC/MS - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B067172 - SW-846 3546</b>										
<b>LCS (B067172-BS1)</b>				Prepared & Analyzed: 02/04/13						
Acenaphthene	1.71	0.17	mg/Kg wet	1.67		103	40-140			
Acenaphthylene	1.69	0.17	mg/Kg wet	1.67		101	40-140			
Anthracene	1.80	0.17	mg/Kg wet	1.67		108	40-140			
Benzo(a)anthracene	1.74	0.17	mg/Kg wet	1.67		104	40-140			
Benzo(a)pyrene	1.90	0.17	mg/Kg wet	1.67		114	40-140			
Benzo(b)fluoranthene	2.24	0.17	mg/Kg wet	1.67		135	40-140			
Benzo(g,h,i)perylene	0.786	0.17	mg/Kg wet	1.67		47.2	40-140			
Benzo(k)fluoranthene	1.95	0.17	mg/Kg wet	1.67		117	40-140			
Chrysene	1.75	0.17	mg/Kg wet	1.67		105	40-140			
Dibenz(a,h)anthracene	1.04	0.17	mg/Kg wet	1.67		62.5	40-140			
Fluoranthene	1.74	0.17	mg/Kg wet	1.67		105	40-140			
Fluorene	1.74	0.17	mg/Kg wet	1.67		104	40-140			
Indeno(1,2,3-cd)pyrene	1.01	0.17	mg/Kg wet	1.67		60.4	40-140			
2-Methylnaphthalene	1.68	0.17	mg/Kg wet	1.67		101	40-140			
Naphthalene	1.58	0.17	mg/Kg wet	1.67		94.9	40-140			
Phenanthrene	1.85	0.17	mg/Kg wet	1.67		111	40-140			
Pyrene	1.81	0.17	mg/Kg wet	1.67		109	40-140			
Surrogate: Nitrobenzene-d5	3.15		mg/Kg wet	3.33		94.5	30-130			
Surrogate: 2-Fluorobiphenyl	3.39		mg/Kg wet	3.33		102	30-130			
Surrogate: Terphenyl-d14	3.91		mg/Kg wet	3.33		117	30-130			
<b>LCS Dup (B067172-BS1)</b>				Prepared & Analyzed: 02/04/13						
Acenaphthene	1.66	0.17	mg/Kg wet	1.67		99.6	40-140	3.01	30	
Acenaphthylene	1.63	0.17	mg/Kg wet	1.67		97.5	40-140	3.76	30	
Anthracene	1.79	0.17	mg/Kg wet	1.67		107	40-140	0.501	30	
Benzo(a)anthracene	1.74	0.17	mg/Kg wet	1.67		104	40-140	0.211	30	
Benzo(a)pyrene	1.89	0.17	mg/Kg wet	1.67		113	40-140	0.529	30	
Benzo(b)fluoranthene	2.17	0.17	mg/Kg wet	1.67		130	40-140	3.31	30	
Benzo(g,h,i)perylene	0.930	0.17	mg/Kg wet	1.67		55.8	40-140	16.8	30	
Benzo(k)fluoranthene	1.92	0.17	mg/Kg wet	1.67		115	40-140	1.86	30	
Chrysene	1.78	0.17	mg/Kg wet	1.67		107	40-140	1.76	30	
Dibenz(a,h)anthracene	1.17	0.17	mg/Kg wet	1.67		70.4	40-140	12.0	30	
Fluoranthene	1.88	0.17	mg/Kg wet	1.67		113	40-140	7.70	30	
Fluorene	1.72	0.17	mg/Kg wet	1.67		103	40-140	1.33	30	
Indeno(1,2,3-cd)pyrene	1.12	0.17	mg/Kg wet	1.67		67.0	40-140	10.4	30	
2-Methylnaphthalene	1.62	0.17	mg/Kg wet	1.67		97.1	40-140	3.70	30	
Naphthalene	1.52	0.17	mg/Kg wet	1.67		91.0	40-140	4.24	30	
Phenanthrene	1.81	0.17	mg/Kg wet	1.67		108	40-140	2.35	30	
Pyrene	1.80	0.17	mg/Kg wet	1.67		108	40-140	0.869	30	
Surrogate: Nitrobenzene-d5	2.99		mg/Kg wet	3.33		89.6	30-130			
Surrogate: 2-Fluorobiphenyl	3.23		mg/Kg wet	3.33		97.0	30-130			
Surrogate: Terphenyl-d14	3.86		mg/Kg wet	3.33		116	30-130			



## QUALITY CONTROL

## Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B067172 - SW-846 3546</b>										
<b>Matrix Spike (B067172-MS1)</b>	<b>Source: 13A0745-01</b>			Prepared & Analyzed: 02/04/13						
Acenaphthene	1.62	0.18	mg/Kg dry	1.76	ND	91.9	40-140			
Acenaphthylene	1.58	0.18	mg/Kg dry	1.76	ND	89.6	40-140			
Anthracene	1.74	0.18	mg/Kg dry	1.76	ND	98.7	40-140			
Benzo(a)anthracene	1.77	0.18	mg/Kg dry	1.76	ND	100	40-140			
Benzo(a)pyrene	1.91	0.18	mg/Kg dry	1.76	ND	108	40-140			
Benzo(b)fluoranthene	2.22	0.18	mg/Kg dry	1.76	ND	126	40-140			
Benzo(g,h,i)perylene	0.995	0.18	mg/Kg dry	1.76	ND	56.5	40-140			
Benzo(k)fluoranthene	1.98	0.18	mg/Kg dry	1.76	ND	113	40-140			
Chrysene	1.78	0.18	mg/Kg dry	1.76	ND	101	40-140			
Dibenz(a,h)anthracene	1.18	0.18	mg/Kg dry	1.76	ND	67.0	40-140			
Fluoranthene	1.81	0.18	mg/Kg dry	1.76	ND	103	40-140			
Fluorene	1.69	0.18	mg/Kg dry	1.76	ND	96.2	40-140			
Indeno(1,2,3-cd)pyrene	1.15	0.18	mg/Kg dry	1.76	ND	65.4	40-140			
2-Methylnaphthalene	1.55	0.18	mg/Kg dry	1.76	ND	87.8	40-140			
Naphthalene	1.47	0.18	mg/Kg dry	1.76	ND	83.6	40-140			
Phenanthrene	1.81	0.18	mg/Kg dry	1.76	ND	103	40-140			
Pyrene	1.83	0.18	mg/Kg dry	1.76	ND	104	40-140			
Surrogate: Nitrobenzene-d5	2.85		mg/Kg dry	3.52		81.0	30-130			
Surrogate: 2-Fluorobiphenyl	3.10		mg/Kg dry	3.52		88.0	30-130			
Surrogate: Terphenyl-d14	3.88		mg/Kg dry	3.52		110	30-130			
<b>Matrix Spike Dup (B067172-MSD1)</b>	<b>Source: 13A0745-01</b>			Prepared & Analyzed: 02/04/13						
Acenaphthene	1.82	0.18	mg/Kg dry	1.76	ND	104	40-140	11.6	30	
Acenaphthylene	1.78	0.18	mg/Kg dry	1.76	ND	101	40-140	11.9	30	
Anthracene	1.94	0.18	mg/Kg dry	1.76	ND	111	40-140	11.2	30	
Benzo(a)anthracene	1.90	0.18	mg/Kg dry	1.76	ND	108	40-140	7.48	30	
Benzo(a)pyrene	2.07	0.18	mg/Kg dry	1.76	ND	118	40-140	8.15	30	
<b>Benzo(b)fluoranthene</b>	2.47	0.18	mg/Kg dry	1.76	ND	<b>141</b>	* 40-140	10.7	30	MS-22
Benzo(g,h,i)perylene	0.997	0.18	mg/Kg dry	1.76	ND	56.8	40-140	0.269	30	
Benzo(k)fluoranthene	2.17	0.18	mg/Kg dry	1.76	ND	124	40-140	9.16	30	
Chrysene	1.92	0.18	mg/Kg dry	1.76	ND	110	40-140	8.03	30	
Dibenz(a,h)anthracene	1.22	0.18	mg/Kg dry	1.76	ND	69.6	40-140	3.42	30	
Fluoranthene	2.00	0.18	mg/Kg dry	1.76	ND	114	40-140	10.2	30	
Fluorene	1.84	0.18	mg/Kg dry	1.76	ND	105	40-140	8.40	30	
Indeno(1,2,3-cd)pyrene	1.15	0.18	mg/Kg dry	1.76	ND	65.6	40-140	0.00399	30	
2-Methylnaphthalene	1.75	0.18	mg/Kg dry	1.76	ND	99.4	40-140	12.1	30	
Naphthalene	1.66	0.18	mg/Kg dry	1.76	ND	94.3	40-140	11.7	30	
Phenanthrene	1.99	0.18	mg/Kg dry	1.76	ND	113	40-140	9.51	30	
Pyrene	1.97	0.18	mg/Kg dry	1.76	ND	112	40-140	7.39	30	
Surrogate: Nitrobenzene-d5	3.22		mg/Kg dry	3.51		91.7	30-130			
Surrogate: 2-Fluorobiphenyl	3.70		mg/Kg dry	3.51		105	30-130			
Surrogate: Terphenyl-d14	4.21		mg/Kg dry	3.51		120	30-130			



**QUALITY CONTROL**
**Polychlorinated Biphenyls By GC/ECD - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B067035 - SW-846 3546**
**Blank (B067035-BLK1)**

Prepared: 02/01/13 Analyzed: 02/04/13

Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.160		mg/Kg wet	0.200		80.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.157		mg/Kg wet	0.200		78.6	30-150			
Surrogate: Tetrachloro-m-xylene	0.150		mg/Kg wet	0.200		74.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.150		mg/Kg wet	0.200		75.0	30-150			

**LCS (B067035-BS1)**

Prepared: 02/01/13 Analyzed: 02/04/13

Aroclor-1016	0.14	0.10	mg/Kg wet	0.200		70.3	40-140			
Aroclor-1016 [2C]	0.13	0.10	mg/Kg wet	0.200		67.4	40-140			
Aroclor-1260	0.14	0.10	mg/Kg wet	0.200		71.5	40-140			
Aroclor-1260 [2C]	0.14	0.10	mg/Kg wet	0.200		70.8	40-140			
Surrogate: Decachlorobiphenyl	0.121		mg/Kg wet	0.200		60.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.119		mg/Kg wet	0.200		59.4	30-150			
Surrogate: Tetrachloro-m-xylene	0.111		mg/Kg wet	0.200		55.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.113		mg/Kg wet	0.200		56.4	30-150			

**LCS Dup (B067035-BSD1)**

Prepared: 02/01/13 Analyzed: 02/04/13

Aroclor-1016	0.18	0.10	mg/Kg wet	0.200		87.8	40-140	22.1	30	
Aroclor-1016 [2C]	0.17	0.10	mg/Kg wet	0.200		83.5	40-140	21.3	30	
Aroclor-1260	0.17	0.10	mg/Kg wet	0.200		83.9	40-140	16.0	30	
Aroclor-1260 [2C]	0.17	0.10	mg/Kg wet	0.200		86.8	40-140	20.3	30	
Surrogate: Decachlorobiphenyl	0.148		mg/Kg wet	0.200		74.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.150		mg/Kg wet	0.200		75.2	30-150			
Surrogate: Tetrachloro-m-xylene	0.138		mg/Kg wet	0.200		68.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.139		mg/Kg wet	0.200		69.6	30-150			



**QUALITY CONTROL**
**Polychlorinated Biphenyls By GC/ECD - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B067108 - SW-846 3510C**
**Blank (B067108-BLK1)**

Prepared: 02/01/13 Analyzed: 02/04/13

Aroclor-1016	ND	0.20	µg/L							
Aroclor-1016 [2C]	ND	0.20	µg/L							
Aroclor-1221	ND	0.20	µg/L							
Aroclor-1221 [2C]	ND	0.20	µg/L							
Aroclor-1232	ND	0.20	µg/L							
Aroclor-1232 [2C]	ND	0.20	µg/L							
Aroclor-1242	ND	0.20	µg/L							
Aroclor-1242 [2C]	ND	0.20	µg/L							
Aroclor-1248	ND	0.20	µg/L							
Aroclor-1248 [2C]	ND	0.20	µg/L							
Aroclor-1254	ND	0.20	µg/L							
Aroclor-1254 [2C]	ND	0.20	µg/L							
Aroclor-1260	ND	0.20	µg/L							
Aroclor-1260 [2C]	ND	0.20	µg/L							
Aroclor-1262	ND	0.20	µg/L							
Aroclor-1262 [2C]	ND	0.20	µg/L							
Aroclor-1268	ND	0.20	µg/L							
Aroclor-1268 [2C]	ND	0.20	µg/L							
Surrogate: Decachlorobiphenyl	1.41		µg/L	2.00		70.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.43		µg/L	2.00		71.3	30-150			
Surrogate: Tetrachloro-m-xylene	1.41		µg/L	2.00		70.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.41		µg/L	2.00		70.4	30-150			

**LCS (B067108-BS1)**

Prepared: 02/01/13 Analyzed: 02/04/13

Aroclor-1016	0.49	0.20	µg/L	0.500		97.9	40-140			
Aroclor-1016 [2C]	0.45	0.20	µg/L	0.500		90.6	40-140			
Aroclor-1260	0.48	0.20	µg/L	0.500		96.9	40-140			
Aroclor-1260 [2C]	0.44	0.20	µg/L	0.500		88.4	40-140			
Surrogate: Decachlorobiphenyl	1.44		µg/L	2.00		71.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.45		µg/L	2.00		72.6	30-150			
Surrogate: Tetrachloro-m-xylene	1.37		µg/L	2.00		68.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.37		µg/L	2.00		68.3	30-150			

**LCS Dup (B067108-BSD1)**

Prepared: 02/01/13 Analyzed: 02/04/13

Aroclor-1016	0.49	0.20	µg/L	0.500		97.5	40-140	0.436	20	
Aroclor-1016 [2C]	0.46	0.20	µg/L	0.500		92.8	40-140	2.48	20	
Aroclor-1260	0.48	0.20	µg/L	0.500		96.4	40-140	0.532	20	
Aroclor-1260 [2C]	0.45	0.20	µg/L	0.500		89.6	40-140	1.34	20	
Surrogate: Decachlorobiphenyl	1.43		µg/L	2.00		71.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.45		µg/L	2.00		72.5	30-150			
Surrogate: Tetrachloro-m-xylene	1.41		µg/L	2.00		70.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.41		µg/L	2.00		70.5	30-150			



**QUALITY CONTROL**
**Petroleum Hydrocarbons Analyses - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B067154 - SW-846 3510C</b>										
<b>Blank (B067154-BLK1)</b>				Prepared: 02/04/13 Analyzed: 02/05/13						
CT ETPH	ND	0.075	mg/L							
Surrogate: o-Terphenyl	0.0782		mg/L	0.100		78.2	50-150			
<b>LCS (B067154-BS2)</b>				Prepared: 02/04/13 Analyzed: 02/05/13						
CT ETPH	0.763	0.075	mg/L	1.00		76.3	60-120			
Surrogate: o-Terphenyl	0.0792		mg/L	0.100		79.2	50-150			
<b>Batch B067185 - SW-846 3546</b>										
<b>Blank (B067185-BLK1)</b>				Prepared: 02/04/13 Analyzed: 02/05/13						
CT ETPH	ND	10	mg/Kg wet							
Surrogate: o-Terphenyl	2.49		mg/Kg wet	3.33		74.8	50-150			
<b>LCS (B067185-BS2)</b>				Prepared: 02/04/13 Analyzed: 02/05/13						
CT ETPH	33.8	10	mg/Kg wet	33.3		101	60-120			
Surrogate: o-Terphenyl	2.63		mg/Kg wet	3.33		78.9	50-150			
<b>Matrix Spike (B067185-MS1)</b>				<b>Source: 13A0745-04</b>		Prepared: 02/04/13 Analyzed: 02/05/13				
CT ETPH	34.2	10	mg/Kg dry	35.0	11.2	65.8	50-150			
Surrogate: o-Terphenyl	2.28		mg/Kg dry	3.50		65.3	50-150			
<b>Matrix Spike Dup (B067185-MSD1)</b>				<b>Source: 13A0745-04</b>		Prepared: 02/04/13 Analyzed: 02/05/13				
CT ETPH	35.3	11	mg/Kg dry	35.1	11.2	68.7	50-150	3.16	30	
Surrogate: o-Terphenyl	2.51		mg/Kg dry	3.51		71.5	50-150			



**QUALITY CONTROL**
**Metals Analyses (Total) - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B066971 - SW-846 3050B**
**Blank (B066971-BLK1)**

Prepared: 01/31/13 Analyzed: 02/01/13

Arsenic	ND	2.5	mg/Kg wet							
Barium	ND	2.5	mg/Kg wet							
Cadmium	ND	0.25	mg/Kg wet							
Chromium	ND	0.50	mg/Kg wet							
Copper	ND	0.50	mg/Kg wet							
Lead	ND	0.75	mg/Kg wet							
Nickel	ND	0.50	mg/Kg wet							
Selenium	ND	5.0	mg/Kg wet							
Silver	ND	0.50	mg/Kg wet							
Zinc	ND	1.0	mg/Kg wet							

**LCS (B066971-BS1)**

Prepared: 01/31/13 Analyzed: 02/01/13

Arsenic	101	5.0	mg/Kg wet	94.5		107	82.2-117.5			
Barium	177	5.0	mg/Kg wet	166		107	83.1-116.3			
Cadmium	57.4	0.50	mg/Kg wet	59.9		95.8	84-115.9			
Chromium	74.6	1.0	mg/Kg wet	69.3		108	81.4-118.6			
Copper	85.3	1.0	mg/Kg wet	78.0		109	83.7-116.2			
Lead	92.7	1.5	mg/Kg wet	91.7		101	82.4-117.8			
Nickel	58.2	1.0	mg/Kg wet	56.6		103	82.2-117.8			
Selenium	169	10	mg/Kg wet	159		106	79.2-120.8			
Silver	34.9	1.0	mg/Kg wet	33.9		103	66.4-133.9			
Zinc	141	2.0	mg/Kg wet	137		103	81-119			

**LCS Dup (B066971-BSD1)**

Prepared: 01/31/13 Analyzed: 02/01/13

Arsenic	95.8	5.0	mg/Kg wet	94.5		101	82.2-117.5	5.55	30	
Barium	171	5.0	mg/Kg wet	166		103	83.1-116.3	3.81	30	
Cadmium	53.7	0.50	mg/Kg wet	59.9		89.7	84-115.9	6.65	30	
Chromium	72.1	1.0	mg/Kg wet	69.3		104	81.4-118.6	3.35	30	
Copper	79.9	1.0	mg/Kg wet	78.0		102	83.7-116.2	6.62	30	
Lead	89.9	1.5	mg/Kg wet	91.7		98.0	82.4-117.8	3.05	30	
Nickel	56.3	1.0	mg/Kg wet	56.6		99.5	82.2-117.8	3.30	30	
Selenium	159	10	mg/Kg wet	159		100	79.2-120.8	6.04	30	
Silver	33.1	1.0	mg/Kg wet	33.9		97.6	66.4-133.9	5.38	30	
Zinc	134	2.0	mg/Kg wet	137		97.9	81-119	4.71	30	

**MRL Check (B066971-MRL1)**

Prepared: 01/31/13 Analyzed: 02/02/13

Lead	0.874	0.70	mg/Kg wet	0.700		125	* 80-120			M-10
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**Batch B066975 - SW-846 7470A Prep**
**Blank (B066975-BLK1)**

Prepared: 01/31/13 Analyzed: 02/01/13

Mercury	ND	0.00010	mg/L							
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**QUALITY CONTROL**
**Metals Analyses (Total) - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B066975 - SW-846 7470A Prep**

<b>LCS (B066975-BS1)</b>				Prepared: 01/31/13 Analyzed: 02/01/13						
Mercury	0.00174	0.00010	mg/L	0.00200		86.9	80-120			
<b>LCS Dup (B066975-BSD1)</b>				Prepared: 01/31/13 Analyzed: 02/01/13						
Mercury	0.00176	0.00010	mg/L	0.00200		88.1	80-120	1.37	20	

**Batch B067008 - SW-846 7471**

<b>Blank (B067008-BLK1)</b>				Prepared: 01/31/13 Analyzed: 02/01/13						
Mercury	ND	0.025	mg/Kg wet							
<b>LCS (B067008-BS1)</b>				Prepared: 01/31/13 Analyzed: 02/01/13						
Mercury	3.40	0.33	mg/Kg wet	3.73		91.1	71.7-128.3			
<b>LCS Dup (B067008-BSD1)</b>				Prepared: 01/31/13 Analyzed: 02/01/13						
Mercury	3.22	0.33	mg/Kg wet	3.73		86.3	71.7-128.3	5.40	30	

**Batch B067031 - SW-846 3005A**

<b>Blank (B067031-BLK1)</b>				Prepared: 01/31/13 Analyzed: 02/01/13						
Arsenic	ND	2.0	µg/L							
Barium	ND	50	µg/L							
Cadmium	ND	2.5	µg/L							
Chromium	ND	5.0	µg/L							
Copper	ND	25	µg/L							
Lead	ND	5.0	µg/L							
Nickel	ND	25	µg/L							
Selenium	ND	25	µg/L							
Silver	ND	2.5	µg/L							
Zinc	ND	50	µg/L							
<b>LCS (B067031-BS1)</b>				Prepared: 01/31/13 Analyzed: 02/01/13						
Arsenic	241	2.0	µg/L	250		96.4	80-120			
Barium	240	50	µg/L	250		96.2	80-120			
Cadmium	244	2.5	µg/L	250		97.6	80-120			
Chromium	256	5.0	µg/L	250		103	80-120			
Copper	255	25	µg/L	250		102	80-120			
Lead	250	5.0	µg/L	250		99.9	80-120			
Nickel	253	25	µg/L	250		101	80-120			
Selenium	243	25	µg/L	250		97.0	80-120			
Silver	272	2.5	µg/L	250		109	80-120			
Zinc	259	50	µg/L	250		104	80-120			



**QUALITY CONTROL**
**Metals Analyses (Total) - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B067031 - SW-846 3005A**
**LCS Dup (B067031-BSD1)**

Prepared: 01/31/13 Analyzed: 02/01/13

Arsenic	242	2.0	µg/L	250		96.8	80-120	0.397	20	
Barium	233	50	µg/L	250		93.3	80-120	3.07	20	
Cadmium	243	2.5	µg/L	250		97.3	80-120	0.339	20	
Chromium	261	5.0	µg/L	250		104	80-120	1.64	20	
Copper	247	25	µg/L	250		98.6	80-120	3.34	20	
Lead	247	5.0	µg/L	250		98.8	80-120	1.08	20	
Nickel	248	25	µg/L	250		99.1	80-120	2.25	20	
Selenium	235	25	µg/L	250		93.9	80-120	3.31	20	
Silver	276	2.5	µg/L	250		110	80-120	1.33	20	
Zinc	253	50	µg/L	250		101	80-120	2.57	20	



**FLAG/QUALIFIER SUMMARY**

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
B	Analyte is found in the associated blank as well as in the sample.
B-05	Data is not affected by elevated level in blank since sample(s) result is "Not Detected".
L-03	Laboratory fortified blank/laboratory control sample recovery is outside of control limits. Reported value for this compound is likely to be biased on the low side.
M-10	The reporting limit verification for the AIHA lead program is outside of control limits for this element. Any reported result at or near the detection limit may be biased on the high side.
MS-22	Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is within method specified criteria.
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.
S-07	One associated surrogate standard recovery is outside of control limits but the other(s) is/are within limits. All recoveries are > 10%.
V-05	Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.
V-16	Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.
V-20	Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.



# CERTIFICATIONS

## Certified Analyses included in this Report

Analyte	Certifications
<b>CTDEP ETPH in Soil</b>	
CT ETPH	CT
<b>CTDEP ETPH in Water</b>	
CT ETPH	CT
<b>SW-846 6010C in Soil</b>	
Arsenic	CT,NH,NY,ME,NC,VA
Barium	CT,NH,NY,ME,NC,VA
Cadmium	CT,NH,NY,ME,NC,VA
Chromium	CT,NH,NY,ME,NC,VA
Copper	CT,NH,NY,ME,NC,VA
Lead	CT,NH,NY,AIHA,ME,NC,VA
Nickel	CT,NH,NY,ME,NC,VA
Selenium	CT,NH,NY,ME,NC,VA
Silver	CT,NH,NY,ME,NC,VA
Zinc	CT,NH,NY,ME,NC,VA
<b>SW-846 6020A in Water</b>	
Arsenic	CT,NH,NY,RI,NC,ME,VA
Barium	CT,NH,NY,RI,NC,ME,VA
Cadmium	CT,NH,NY,RI,NC,ME,VA
Chromium	CT,NH,NY,RI,NC,ME,VA
Copper	CT,NH,NY,RI,NC,ME,VA
Lead	CT,NH,NY,RI,NC,ME,VA
Nickel	CT,NH,NY,RI,NC,ME,VA
Selenium	CT,NH,NY,RI,NC,ME,VA
Silver	CT,NH,NY,RI,NC,ME,VA
Zinc	CT,NH,NY,RI,NC,ME,VA
<b>SW-846 7470A in Water</b>	
Mercury	CT,NH,NY,RI,NC,ME,VA
<b>SW-846 7471B in Soil</b>	
Mercury	CT,NH,NY,NC,ME,VA
<b>SW-846 8082A in Soil</b>	
Aroclor-1016	CT,NH,NY,NC,ME,VA
Aroclor-1016 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1221	CT,NH,NY,NC,ME,VA
Aroclor-1221 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1232	CT,NH,NY,NC,ME,VA
Aroclor-1232 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1242	CT,NH,NY,NC,ME,VA
Aroclor-1242 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1248	CT,NH,NY,NC,ME,VA
Aroclor-1248 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1254	CT,NH,NY,NC,ME,VA
Aroclor-1254 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1260	CT,NH,NY,NC,ME,VA
Aroclor-1260 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1262	NC



# CERTIFICATIONS

## Certified Analyses included in this Report

Analyte	Certifications
<b><i>SW-846 8082A in Soil</i></b>	
Aroclor-1262 [2C]	NC
Aroclor-1268	NC
Aroclor-1268 [2C]	NC
<b><i>SW-846 8082A in Water</i></b>	
Aroclor-1016	CT,NH,NY,RI,NC,ME,VA
Aroclor-1016 [2C]	CT,NH,NY,RI,NC,ME,VA
Aroclor-1221	CT,NH,NY,RI,NC,ME,VA
Aroclor-1221 [2C]	CT,NH,NY,RI,NC,ME,VA
Aroclor-1232	CT,NH,NY,RI,NC,ME,VA
Aroclor-1232 [2C]	CT,NH,NY,RI,NC,ME,VA
Aroclor-1242	CT,NH,NY,RI,NC,ME,VA
Aroclor-1242 [2C]	CT,NH,NY,RI,NC,ME,VA
Aroclor-1248	CT,NH,NY,RI,NC,ME,VA
Aroclor-1248 [2C]	CT,NH,NY,RI,NC,ME,VA
Aroclor-1254	CT,NH,NY,RI,NC,ME,VA
Aroclor-1254 [2C]	CT,NH,NY,RI,NC,ME,VA
Aroclor-1260	CT,NH,NY,RI,NC,ME,VA
Aroclor-1260 [2C]	CT,NH,NY,RI,NC,ME,VA
Aroclor-1262	NC
Aroclor-1262 [2C]	NC
Aroclor-1268	NC
Aroclor-1268 [2C]	NC
<b><i>SW-846 8260C in Soil</i></b>	
Acetone	CT,NH,NY,ME
Acrylonitrile	CT,NH,NY,ME
Benzene	CT,NH,NY,ME
Bromobenzene	NH,NY,ME
Bromodichloromethane	CT,NH,NY,ME
Bromoform	CT,NH,NY,ME
Bromomethane	CT,NH,NY,ME
2-Butanone (MEK)	CT,NH,NY,ME
n-Butylbenzene	CT,NH,NY,ME
sec-Butylbenzene	CT,NH,NY,ME
tert-Butylbenzene	CT,NH,NY,ME
Carbon Disulfide	CT,NH,NY,ME
Carbon Tetrachloride	CT,NH,NY,ME
Chlorobenzene	CT,NH,NY,ME
Chlorodibromomethane	CT,NH,NY,ME
Chloroethane	CT,NH,NY,ME
Chloroform	CT,NH,NY,ME
Chloromethane	CT,NH,NY,ME
2-Chlorotoluene	CT,NH,NY,ME
4-Chlorotoluene	CT,NH,NY,ME
Dibromomethane	NH,NY,ME
1,2-Dichlorobenzene	CT,NH,NY,ME
1,3-Dichlorobenzene	CT,NH,NY,ME



# CERTIFICATIONS

## Certified Analyses included in this Report

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



# CERTIFICATIONS

## Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260C in Water</i>	
2-Butanone (MEK)	CT,NH,NY,ME
n-Butylbenzene	NY,ME
sec-Butylbenzene	NY,ME
tert-Butylbenzene	NY,ME
Carbon Disulfide	CT,NH,NY,ME
Carbon Tetrachloride	CT,NH,NY,ME,RI
Chlorobenzene	CT,NH,NY,ME,RI
Chlorodibromomethane	CT,NH,NY,ME,RI
Chloroethane	CT,NH,NY,ME,RI
Chloroform	CT,NH,NY,ME,RI
Chloromethane	CT,NH,NY,ME,RI
2-Chlorotoluene	NY,ME
4-Chlorotoluene	NY,ME
Dibromomethane	NH,NY,ME
1,2-Dichlorobenzene	CT,NY,ME,RI
1,3-Dichlorobenzene	CT,NH,NY,ME,RI
1,4-Dichlorobenzene	CT,NH,NY,ME,RI
trans-1,4-Dichloro-2-butene	NH,NY,ME
Dichlorodifluoromethane (Freon 12)	NH,NY,ME,RI
1,1-Dichloroethane	CT,NH,NY,ME,RI
1,2-Dichloroethane	CT,NH,NY,ME,RI
1,1-Dichloroethylene	CT,NH,NY,ME,RI
cis-1,2-Dichloroethylene	NY,ME
trans-1,2-Dichloroethylene	CT,NH,NY,ME,RI
1,2-Dichloropropane	CT,NH,NY,ME,RI
1,3-Dichloropropane	NY,ME
2,2-Dichloropropane	NH,NY,ME
1,1-Dichloropropene	NH,NY,ME
cis-1,3-Dichloropropene	CT,NH,NY,ME,RI
trans-1,3-Dichloropropene	CT,NH,NY,ME,RI
Ethylbenzene	CT,NH,NY,ME,RI
Hexachlorobutadiene	CT,NH,NY,ME
2-Hexanone (MBK)	CT,NH,NY,ME
Isopropylbenzene (Cumene)	NY,ME
p-Isopropyltoluene (p-Cymene)	CT,NH,NY,ME
Methyl tert-Butyl Ether (MTBE)	CT,NH,NY,ME
Methylene Chloride	CT,NH,NY,ME,RI
4-Methyl-2-pentanone (MIBK)	CT,NH,NY,ME
Naphthalene	NH,NY,ME
n-Propylbenzene	CT,NH,NY,ME
Styrene	CT,NH,NY,ME
1,1,1,2-Tetrachloroethane	CT,NH,NY,ME
1,1,2,2-Tetrachloroethane	CT,NH,NY,ME,RI
Tetrachloroethylene	CT,NH,NY,ME,RI
Toluene	CT,NH,NY,ME,RI
1,2,3-Trichlorobenzene	NH,NY,ME
1,2,4-Trichlorobenzene	CT,NH,NY,ME



# CERTIFICATIONS

## Certified Analyses included in this Report

Analyte	Certifications
<b>SW-846 8260C in Water</b>	
1,1,1-Trichloroethane	CT,NH,NY,ME,RI
1,1,2-Trichloroethane	CT,NH,NY,ME,RI
Trichloroethylene	CT,NH,NY,ME,RI
Trichlorofluoromethane (Freon 11)	CT,NH,NY,ME,RI
1,2,3-Trichloropropane	NH,NY,ME
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	NY
1,2,4-Trimethylbenzene	NY,ME
1,3,5-Trimethylbenzene	NY,ME
Vinyl Chloride	CT,NH,NY,ME,RI
m+p Xylene	CT,NH,NY,ME,RI
o-Xylene	CT,NH,NY,ME,RI

## SW-846 8270D in Soil

Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA

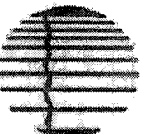
The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

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









**CON-test**  
ANALYTICAL LABORATORY

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

13A0745

**CHAIN OF CUSTODY RECORD**

39 Spruce Street  
East Longmeadow, MA 01028

Page 2 of 2

Company Name: Leavenworth

Telephone: 860-947-6151

Address: 1000 Northwood Dr

Project # 18H1321

Attention: Deane Scott

Client PO#

Project Location: Mystic CT

DATA DELIVERY (check all that apply)  
☐ FAX ☒ EMAIL ☐ OVERSITE

Sampled By: W. J. H. H. H.

Email: W. J. H. H. H.

Project Proposal Provided? (for billing purposes)  
☐ Yes ☐ No (proposal date)

Format:  
☐ PDF ☐ EXCEL ☐ OGIS  
☐ OTHER

Con-Test Lab ID (Laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Date/Time	ANALYSIS REQUESTED									
-11	1273928	12/13	1030	X	S	U	HOLD	HOLD	HOLD	HOLD	VOCs 8260	PAH only 8270	CT ETPH	PCRA & Metals to C11, U2	PCBs 8082	
-12	1273927	12/13	1200	X	GW	U										
-13	1273927 U	12/13	1300	X	GW	U										

Comments:

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

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

Relinquished by (signature)

Turnaround ☐ 7-Day ☐ 10-Day ☐ Other

Detection Limit Requirements

Is your project MCP or RCP?

Received by (signature)

Turnaround ☐ 7-Day ☐ 10-Day ☐ Other

Massachusetts:

☐ MCP Form Required  
☐ RCP Form Required  
☐ MA State DW Form Required

NEIAC & AIHA-LAP, LLC  
Accredited

Received by (signature)

Turnaround ☐ 7-Day ☐ 10-Day ☐ Other

Connecticut:

☐ MCP Form Required  
☐ RCP Form Required  
☐ MA State DW Form Required

WBE/DBE Certified

TURNAROUND TIME STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR





**con-test**  
ANALYTICAL LABORATORY

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

**CHAIN OF CUSTODY RECORD**

39 Spruce Street  
East Longmeadow, MA 01028

Page 1 of 2

Company Name: Levine Inc

Telephone: 860 747 6161

Address: 100 North West Dr

Project # 15HH301

Attention: Deane Scott

Client PO#

Project Location: Mystic CT

DATA DELIVERY (check all that apply)  
☐ FAX ☒ EMAIL ☐ WEBSITE

Sampled By: C. Veilert

Email: clveilert@lepine.com

Project Proposal Provided? (for billing purposes)  
☐ yes ☐ no

Format: ☐ PDF ☐ EXCEL ☐ GIS  
☐ OTHER

Con-Test Lab ID

Client Sample ID / Description

Beginning Date/Time

Ending Date/Time

Composite

Grab

Matrix

Blank

Field

1273861

1030

X

1273862

1105

X

1273863

1145

X

1273864

1305

X

1273865

1330

X

1273866

1415

X

1273867

1437

X

1273868

1505

X

1273869

1529

X

1273870

1529

X

Comments:

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

Relinquished By: (signature)

Turnaround ☐ 7-Day ☐ 10-Day ☐ Other

Received By: (signature)

Detection Limit Requirements

Requested by: (signature)

Connecticut

Received By: (signature)

MA State DW Form Required PWSID #

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

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

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

**ANALYSIS REQUESTED**

Disolved Meta  
☐ Field Filtered  
☐ Lab to Filter

\*\*\*Container Code

\*\*\*Cont. Code:

A=amber glass  
G=glass  
P=plastic  
ST=sterile  
V=vial

S=summary can  
T=tetradar bag  
O=Other

\*\*\*Preservation

I=iced  
H=HCL  
M=Methanol  
N=Nitric Acid  
S=Sulfuric Acid  
B=So dium bisulfate  
X=Na hydroxide  
T=Na thiosulfate  
O=Other

\*\*\*Matrix Code:

GW=groundwater  
WW=wastewater  
DW=drinking water  
S=soil/solid  
Sl=sludge  
O=other







**con-test**  
ANALYTICAL LABORATORY

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

# CHAIN OF CUSTODY RECORD

39 Spruce Street  
East Longmeadow, MA 01028

Page 2 of 2

Company Name: Levee Inc

Telephone: 860 747 6181

Address: 100 Westchester Dr

Project # 1844301

City: Plainville CT

Client PO#

Attention: David Scott

DATA DELIVERY (check all that apply)  
☐ FAX ☒ EMAIL ☐ WEBSITE

Project Location: Highgate CT

Fax #

Sampled By: CT Voluntary

Email:

Project Proposal Provided? (for billing purposes)  
☐ Yes ☐ No  
Proposal date

Format: Microsoft Excel  
☐ PDF ☐ EXCEL ☐ OGIS  
☐ OTHER

Con-Test Lab ID

Client Sample ID / Description

Collection  
Beginning Date/Time  
Ending Date/Time

Composite Grab  
Matrix  
Lids

Matrix Code

Matrix Code

1273928

12/21/13

1030

X

X

X

1273927

12/21/13

1500

X

X

X

1273927

12/21/13

1500

X

X

X

1273927

12/21/13

1500

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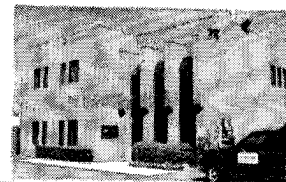
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39 Spruce St.  
East Longmeadow, MA. 01028  
P: 413-525-2332  
F: 413-525-6405  
www.contestlabs.com



## Sample Receipt Checklist

CLIENT NAME: Fullero Env. RECEIVED BY: W/K DATE: 1-28-12

1) Was the chain(s) of custody relinquished and signed?

Yes ☒ No ☐ No CoC Included

2) Does the chain agree with the samples?

Yes ☒ No ☐

If not, explain:

3) Are all the samples in good condition?

Yes ☒ No ☐

If not, explain:

4) How were the samples received:

On Ice ☒ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☒

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

Temperature °C by Temp blank \_\_\_\_\_ Temperature °C by Temp gun 2.3

5) Are there Dissolved samples for the lab to filter?

Yes ☐ No ☒

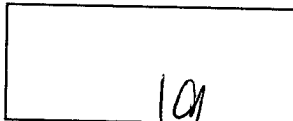
Who was notified \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_

6) Are there any RUSH or SHORT HOLDING TIME samples?

Yes ☐ No ☒

Who was notified \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_

7) Location where samples are stored:



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

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

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

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

## Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber	8	8 oz amber/clear jar	20
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic	1	Plastic Bag / Ziploc	
40 mL Vial - type listed below	36	PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

40 mL vials: # HCl 3 # Methanol 11

# Bisulfate \_\_\_\_\_ # DI Water 22

# Thiosulfate \_\_\_\_\_

Time and Date Frozen:

Doc# 277

Rev. 3 May 2012



**CT ETPH DISCRIMINATION CHECK**

Date Acquired 2/5/13  
Data File Name A0205048.D  
Sample Name ETPH 1500  
Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.23	304096	336854	-10
c - 10	1.58	325252	336854	-3
c - 12	2.31	329603	336854	-2
c - 14	2.98	338443	336854	0
c - 16	3.58	340033	336854	1
c - 18	4.19	350519	336854	4
o-Terphenyl	4.49	404357	336854	
c - 20	4.80	350589	336854	4
c - 22	5.31	351683	336854	4
c - 24	5.75	350884	336854	4
c - 26	6.15	347662	336854	3
c - 28	6.51	340123	336854	1
c - 30	6.84	335626	336854	0
c - 32	7.15	326077	336854	-3
c - 34	7.45	328309	336854	-3
c - 36	7.76	333919	336854	-1

\* One compound allowed %D <= 50%

**Samples**

13A0744-02  
13A0744-35  
13A0745-12  
13A0792-05  
13A0804-01  
13A0804-07



**CT ETPH DISCRIMINATION CHECK**

Date Acquired 2/6/13  
 Data File Name A0205126.D  
 Sample Name ETPH 1500  
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.23	271979	287118	-5
c - 10	1.58	286107	287118	0
c - 12	2.31	288490	287118	0
c - 14	2.98	295115	287118	3
c - 16	3.58	294093	287118	2
c - 18	4.19	299724	287118	4
o-Terphenyl	4.49	345292	287118	
c - 20	4.80	296517	287118	3
c - 22	5.31	294531	287118	3
c - 24	5.75	291746	287118	2
c - 26	6.15	288369	287118	0
c - 28	6.51	283025	287118	-1
c - 30	6.84	280187	287118	-2
c - 32	7.16	275447	287118	-4
c - 34	7.45	278381	287118	-3
c - 36	7.76	283054	287118	-1

\* One compound allowed %D &lt;= 50%

## Samples

13A0787-10@5X  
 13A0790-02@5X  
 13A0787-06  
 13A0790-01  
 13A0745-08@20X  
 13A0738-07RE1  
 13A0738-11RE1@5X

2/6/13 11:00 AM



**CT ETPH DISCRIMINATION CHECK**

Date Acquired 2/5/13  
Data File Name A0205049.D  
Sample Name ETPH 1500  
Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.26	252464	277109	-9
c - 10	1.60	270729	277109	-2
c - 12	2.31	275639	277109	-1
c - 14	2.97	283227	277109	2
c - 16	3.57	282964	277109	2
c - 18	4.16	288574	277109	4
o-Terphenyl	4.46	327055	277109	
c - 20	4.77	285854	277109	3
c - 22	5.27	284035	277109	2
c - 24	5.71	281643	277109	2
c - 26	6.10	279049	277109	1
c - 28	6.46	274496	277109	-1
c - 30	6.80	274174	277109	-1
c - 32	7.11	269979	277109	-3
c - 34	7.40	274126	277109	-1
c - 36	7.70	279682	277109	1

\* One compound allowed %D <= 50%

**Samples**

13A0804-02  
13A0804-03  
13A0804-04  
13A0804-05  
13A0804-06  
13A0745-01  
13A0745-03  
13A0745-04  
13A0745-05  
13A0745-09  
13A0745-06

2/6/13 11:07 AM



**CT ETPH DISCRIMINATION CHECK**

Date Acquired 2/5/13  
Data File Name A0205091.D  
Sample Name ETPH 1500  
Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.25	267446	285343	-6
c - 10	1.60	281865	285343	-1
c - 12	2.31	284737	285343	0
c - 14	2.97	292090	285343	2
c - 16	3.57	291059	285343	2
c - 18	4.16	296162	285343	4
o-Terphenyl	4.46	335008	285343	
c - 20	4.77	292870	285343	3
c - 22	5.28	290954	285343	2
c - 24	5.71	288689	285343	1
c - 26	6.11	286046	285343	0
c - 28	6.46	281439	285343	-1
c - 30	6.80	281423	285343	-1
c - 32	7.11	277127	285343	-3
c - 34	7.40	281334	285343	-1
c - 36	7.70	286907	285343	1

\* One compound allowed %D <= 50%

**Samples**

13A0745-10@10X  
13A0744-05  
13A0744-18  
13A0744-19  
13A0744-20  
13A0744-22  
13A0744-23  
13A0744-10  
13A0744-12



**CT ETPH DISCRIMINATION CHECK**

Date Acquired 2/6/13  
Data File Name A0205127.D  
Sample Name ETPH 1500  
Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.26	290149	313170	-7
c - 10	1.60	307079	313170	-2
c - 12	2.31	311829	313170	0
c - 14	2.97	320162	313170	2
c - 16	3.56	319009	313170	2
c - 18	4.16	324636	313170	4
o-Terphenyl	4.46	367436	313170	
c - 20	4.77	320929	313170	2
c - 22	5.27	318648	313170	2
c - 24	5.71	316261	313170	1
c - 26	6.10	313974	313170	0
c - 28	6.46	309530	313170	-1
c - 30	6.80	310306	313170	-1
c - 32	7.11	306043	313170	-2
c - 34	7.40	311144	313170	-1
c - 36	7.70	317849	313170	1

\* One compound allowed %D <= 50%

**Samples**

13A0792-01  
13A0792-03  
13A0787-04  
13A0787-08  
13A0745-07@20X  
13A0787-02@5X





## REASONABLE CONFIDENCE PROTOCOL LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

**Laboratory Name:** Con-Test Analytical Laboratory

**Client:** Loureiro Engineering Associates

**Project Location:** Mystic, CT

**Project Number:** 13A0745

**Laboratory Sample ID(s):**

13A0745-01 thru 13A0745-13

**Sample Date(s):**

01/29/2013

**List RCP Methods Used:**

CTDEP ETPH, SW-846 6010C, SW-846 6020A, SW-846 7470A, SW-846 7471B, SW-846 8082A, SW-846 8260C, SW-846 8270D

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1A	Were the method specified preservation and holding time requirements met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1B	VPH and EPH Methods only: Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3	Were samples received at an appropriate temperature (< 6 degrees C.)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5A	Were reporting limits specified or referenced on the chain-of-custody?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5B	Were these reporting limits met?	<input type="checkbox"/> Yes <input type="checkbox"/> No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence."

This form may not be altered and all questions must be answered.

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

**Authorized Signature:**

**Position:** Laboratory Director

**Printed Name:** Michael A. Erickson

**Date:** 02/06/13

**Name of Laboratory:** Con-Test Analytical Laboratory

**This certification form is to be used for RCP methods only.**



February 6, 2013

David Scotti  
Loureiro Engineering Associates  
100 Northwest Drive  
Plainville, CT 06062

Project Location: Mystic, CT  
Client Job Number:  
Project Number: 18HM301.002  
Laboratory Work Order Number: 13A0792

Enclosed are results of analyses for samples received by the laboratory on January 30, 2013. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Lisa A. Worthington  
Project Manager



Loureiro Engineering Associates  
100 Northwest Drive  
Plainville, CT 06062  
ATTN: David Scotti

REPORT DATE: 2/6/2013

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 18HM301.002

**ANALYTICAL SUMMARY**

WORK ORDER NUMBER: 13A0792

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

PROJECT LOCATION: Mystic, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
1273871	13A0792-01	Soil		CTDEP ETPH SM 2540G SW-846 8260C SW-846 8270D	
1273873	13A0792-03	Soil		CTDEP ETPH SM 2540G SW-846 8260C SW-846 8270D	
1273874	13A0792-04	Soil		SW-846 8260C	
1273926	13A0792-05	Ground Water		CTDEP ETPH SW-846 8260C SW-846 8270D	



#### **CASE NARRATIVE SUMMARY**

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

For method 8270 only PAHs were requested and reported.



**SW-846 8260C****Qualifications:**

Laboratory fortified blank /laboratory control sample recovery outside of control limits. Data validation is not affected since all results are "not detected" for all samples in this batch for this compound and bias is on the high side.

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

B067276-BS1

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

**Analyte & Samples(s) Qualified:****Dichlorodifluoromethane (Freon 12), Methylene Chloride, Naphthalene**

13A0792-03[1273873], B067276-MS1

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:****Chloromethane**

13A0792-05[1273926], B067047-BLK1, B067047-BS1

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

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

13A0792-01[1273871], 13A0792-03[1273873], 13A0792-04[1273874], B067276-BLK1, B067276-BS1, B067276-MS1

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

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

B067047-BS1

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

Analyte is found in the associated blank as well as in the sample.

**Analyte & Samples(s) Qualified:****Benzo(a)anthracene (low), Benzo(b)fluoranthene (low), Phenanthrene (low)**

B067039-BS1, B067039-BSD1

Data is not affected by elevated level in blank since sample(s) result is "Not Detected".

**Analyte & Samples(s) Qualified:****Benzo(a)anthracene (low), Benzo(b)fluoranthene (low), Phenanthrene (low)**

13A0792-05[1273926], B067039-BLK1

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:****Terphenyl-d14**

13A0792-01[1273871]



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:**

**Indeno(1,2,3-cd)pyrene (low)**

B067039-BLK1

**SW-846 8260C**

All water reporting limits specified on the chain-of-custody were met except for Acrylonitrile, where the most protective criteria are not met since the laboratory cannot achieve the required RCP calibration criteria at these levels, unless otherwise listed in this narrative.

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

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

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

Daren J. Damboragian  
Laboratory Manager



Project Location: Mystic, CT

Sample Description:

Work Order: 13A0792

Date Received: 1/30/2013

Field Sample #: 1273871

Sampled: 1/30/2013 14:11

Sample ID: 13A0792-01

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.051	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:46	MFF
Acrylonitrile	ND	0.0030	mg/Kg dry	1	V-16	SW-846 8260C	2/5/13	2/5/13 9:46	MFF
Benzene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:46	MFF
Bromobenzene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:46	MFF
Bromodichloromethane	ND	0.0010	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:46	MFF
Bromoform	ND	0.0010	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:46	MFF
Bromomethane	ND	0.0051	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:46	MFF
2-Butanone (MEK)	ND	0.020	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:46	MFF
n-Butylbenzene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:46	MFF
sec-Butylbenzene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:46	MFF
tert-Butylbenzene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:46	MFF
Carbon Disulfide	ND	0.0030	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:46	MFF
Carbon Tetrachloride	ND	0.0010	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:46	MFF
Chlorobenzene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:46	MFF
Chlorodibromomethane	ND	0.00051	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:46	MFF
Chloroethane	ND	0.010	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:46	MFF
Chloroform	ND	0.0020	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:46	MFF
Chloromethane	ND	0.0051	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:46	MFF
2-Chlorotoluene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:46	MFF
4-Chlorotoluene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:46	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0010	mg/Kg dry	1	V-16	SW-846 8260C	2/5/13	2/5/13 9:46	MFF
1,2-Dibromoethane (EDB)	ND	0.00051	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:46	MFF
Dibromomethane	ND	0.0010	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:46	MFF
1,2-Dichlorobenzene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:46	MFF
1,3-Dichlorobenzene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:46	MFF
1,4-Dichlorobenzene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:46	MFF
trans-1,4-Dichloro-2-butene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:46	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.010	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:46	MFF
1,1-Dichloroethane	ND	0.0010	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:46	MFF
1,2-Dichloroethane	ND	0.0010	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:46	MFF
1,1-Dichloroethylene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:46	MFF
cis-1,2-Dichloroethylene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:46	MFF
trans-1,2-Dichloroethylene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:46	MFF
1,2-Dichloropropane	ND	0.0010	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:46	MFF
1,3-Dichloropropane	ND	0.00051	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:46	MFF
2,2-Dichloropropane	ND	0.0010	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:46	MFF
1,1-Dichloropropene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:46	MFF
cis-1,3-Dichloropropene	ND	0.00051	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:46	MFF
trans-1,3-Dichloropropene	ND	0.00051	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:46	MFF
Ethylbenzene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:46	MFF
Hexachlorobutadiene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:46	MFF
2-Hexanone (MBK)	ND	0.010	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:46	MFF
Isopropylbenzene (Cumene)	ND	0.0010	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:46	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0010	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:46	MFF



Project Location: Mystic, CT

Sample Description:

Work Order: 13A0792

Date Received: 1/30/2013

Field Sample #: 1273871

Sampled: 1/30/2013 14:11

Sample ID: 13A0792-01

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0020	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:46	MFF
Methylene Chloride	ND	0.010	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:46	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.010	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:46	MFF
Naphthalene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:46	MFF
n-Propylbenzene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:46	MFF
Styrene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:46	MFF
1,1,1,2-Tetrachloroethane	ND	0.0010	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:46	MFF
1,1,2,2-Tetrachloroethane	ND	0.00051	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:46	MFF
Tetrachloroethylene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:46	MFF
Tetrahydrofuran	ND	0.0051	mg/Kg dry	1	V-16	SW-846 8260C	2/5/13	2/5/13 9:46	MFF
Toluene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:46	MFF
1,2,3-Trichlorobenzene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:46	MFF
1,2,4-Trichlorobenzene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:46	MFF
1,1,1-Trichloroethane	ND	0.0010	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:46	MFF
1,1,2-Trichloroethane	ND	0.0010	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:46	MFF
Trichloroethylene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:46	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0051	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:46	MFF
1,2,3-Trichloropropane	ND	0.0010	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:46	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0051	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:46	MFF
1,2,4-Trimethylbenzene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:46	MFF
1,3,5-Trimethylbenzene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:46	MFF
Vinyl Chloride	ND	0.0051	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:46	MFF
m+p Xylene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:46	MFF
o-Xylene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:46	MFF
Surrogates	% Recovery	Recovery Limits	Flag						
1,2-Dichloroethane-d4	114	70-130							
Toluene-d8	101	70-130							
4-Bromofluorobenzene	93.8	70-130							



Project Location: Mystic, CT

Sample Description:

Work Order: 13A0792

Date Received: 1/30/2013

Field Sample #: 1273871

Sampled: 1/30/2013 14:11

Sample ID: 13A0792-01

Sample Matrix: Soil

## Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/5/13	2/6/13 11:28	CMR
Acenaphthylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/5/13	2/6/13 11:28	CMR
Anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/5/13	2/6/13 11:28	CMR
Benzo(a)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/5/13	2/6/13 11:28	CMR
Benzo(a)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/5/13	2/6/13 11:28	CMR
Benzo(b)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/5/13	2/6/13 11:28	CMR
Benzo(g,h,i)perylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/5/13	2/6/13 11:28	CMR
Benzo(k)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/5/13	2/6/13 11:28	CMR
Chrysene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/5/13	2/6/13 11:28	CMR
Dibenz(a,h)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/5/13	2/6/13 11:28	CMR
Fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/5/13	2/6/13 11:28	CMR
Fluorene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/5/13	2/6/13 11:28	CMR
Indeno(1,2,3-cd)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/5/13	2/6/13 11:28	CMR
2-Methylnaphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/5/13	2/6/13 11:28	CMR
Naphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/5/13	2/6/13 11:28	CMR
Phenanthrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/5/13	2/6/13 11:28	CMR
Pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	2/5/13	2/6/13 11:28	CMR
Surrogates	% Recovery		Recovery Limits		Flag				
Nitrobenzene-d5	104		30-130				2/6/13 11:28		
2-Fluorobiphenyl	110		30-130				2/6/13 11:28		
<b>Terphenyl-d14</b>	<b>131</b> *		30-130		S-07		2/6/13 11:28		



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

Project Location: Mystic, CT

Sample Description:

Work Order: 13A0792

Date Received: 1/30/2013

Field Sample #: 1273871

Sampled: 1/30/2013 14:11

Sample ID: 13A0792-01

Sample Matrix: Soil

#### Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	ND	11	mg/Kg dry	1		CTDEP ETPH	2/5/13	2/6/13 5:22	SCS
Surrogates	% Recovery		Recovery Limits		Flag				
o-Terphenyl	79.7		50-150			2/6/13 5:22			



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

Project Location: Mystic, CT

Sample Description:

Work Order: 13A0792

Date Received: 1/30/2013

Sampled: 1/30/2013 14:11

Field Sample #: 1273871

Sample ID: 13A0792-01

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.2		% Wt	1		SM 2540G	2/1/13	2/2/13 10:55	RH



Project Location: Mystic, CT

Sample Description:

Work Order: 13A0792

Date Received: 1/30/2013

Field Sample #: 1273873

Sampled: 1/30/2013 14:21

Sample ID: 13A0792-03

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.047	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:19	MFF
Acrylonitrile	ND	0.0028	mg/Kg dry	1	V-16	SW-846 8260C	2/5/13	2/5/13 9:19	MFF
Benzene	ND	0.00093	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:19	MFF
Bromobenzene	ND	0.00093	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:19	MFF
Bromodichloromethane	ND	0.00093	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:19	MFF
Bromoform	ND	0.00093	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:19	MFF
Bromomethane	ND	0.0047	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:19	MFF
2-Butanone (MEK)	ND	0.019	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:19	MFF
n-Butylbenzene	ND	0.00093	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:19	MFF
sec-Butylbenzene	ND	0.00093	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:19	MFF
tert-Butylbenzene	ND	0.00093	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:19	MFF
Carbon Disulfide	ND	0.0028	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:19	MFF
Carbon Tetrachloride	ND	0.00093	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:19	MFF
Chlorobenzene	ND	0.00093	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:19	MFF
Chlorodibromomethane	ND	0.00047	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:19	MFF
Chloroethane	ND	0.0093	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:19	MFF
Chloroform	ND	0.0019	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:19	MFF
Chloromethane	ND	0.0047	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:19	MFF
2-Chlorotoluene	ND	0.00093	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:19	MFF
4-Chlorotoluene	ND	0.00093	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:19	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.00093	mg/Kg dry	1	V-16	SW-846 8260C	2/5/13	2/5/13 9:19	MFF
1,2-Dibromoethane (EDB)	ND	0.00047	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:19	MFF
Dibromomethane	ND	0.00093	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:19	MFF
1,2-Dichlorobenzene	ND	0.00093	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:19	MFF
1,3-Dichlorobenzene	ND	0.00093	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:19	MFF
1,4-Dichlorobenzene	ND	0.00093	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:19	MFF
trans-1,4-Dichloro-2-butene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:19	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.0093	mg/Kg dry	1	MS-07	SW-846 8260C	2/5/13	2/5/13 9:19	MFF
1,1-Dichloroethane	ND	0.00093	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:19	MFF
1,2-Dichloroethane	ND	0.00093	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:19	MFF
1,1-Dichloroethylene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:19	MFF
cis-1,2-Dichloroethylene	ND	0.00093	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:19	MFF
trans-1,2-Dichloroethylene	ND	0.00093	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:19	MFF
1,2-Dichloropropane	ND	0.00093	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:19	MFF
1,3-Dichloropropane	ND	0.00047	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:19	MFF
2,2-Dichloropropane	ND	0.00093	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:19	MFF
1,1-Dichloropropene	ND	0.00093	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:19	MFF
cis-1,3-Dichloropropene	ND	0.00047	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:19	MFF
trans-1,3-Dichloropropene	ND	0.00047	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:19	MFF
Ethylbenzene	ND	0.00093	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:19	MFF
Hexachlorobutadiene	ND	0.00093	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:19	MFF
2-Hexanone (MBK)	ND	0.0093	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:19	MFF
Isopropylbenzene (Cumene)	ND	0.00093	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:19	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.00093	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:19	MFF



Project Location: Mystic, CT

Sample Description:

Work Order: 13A0792

Date Received: 1/30/2013

Field Sample #: 1273873

Sampled: 1/30/2013 14:21

Sample ID: 13A0792-03

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0019	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:19	MFF
Methylene Chloride	ND	0.0093	mg/Kg dry	1	MS-07	SW-846 8260C	2/5/13	2/5/13 9:19	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.0093	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:19	MFF
Naphthalene	ND	0.0019	mg/Kg dry	1	MS-07	SW-846 8260C	2/5/13	2/5/13 9:19	MFF
n-Propylbenzene	ND	0.00093	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:19	MFF
Styrene	ND	0.00093	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:19	MFF
1,1,1,2-Tetrachloroethane	ND	0.00093	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:19	MFF
1,1,2,2-Tetrachloroethane	ND	0.00047	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:19	MFF
Tetrachloroethylene	ND	0.00093	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:19	MFF
Tetrahydrofuran	ND	0.0047	mg/Kg dry	1	V-16	SW-846 8260C	2/5/13	2/5/13 9:19	MFF
Toluene	ND	0.00093	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:19	MFF
1,2,3-Trichlorobenzene	ND	0.00093	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:19	MFF
1,2,4-Trichlorobenzene	ND	0.00093	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:19	MFF
1,1,1-Trichloroethane	ND	0.00093	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:19	MFF
1,1,2-Trichloroethane	ND	0.00093	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:19	MFF
Trichloroethylene	ND	0.00093	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:19	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0047	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:19	MFF
1,2,3-Trichloropropane	ND	0.00093	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:19	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0047	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:19	MFF
1,2,4-Trimethylbenzene	ND	0.00093	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:19	MFF
1,3,5-Trimethylbenzene	ND	0.00093	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:19	MFF
Vinyl Chloride	ND	0.0047	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:19	MFF
m+p Xylene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:19	MFF
o-Xylene	ND	0.00093	mg/Kg dry	1		SW-846 8260C	2/5/13	2/5/13 9:19	MFF
Surrogates	% Recovery	Recovery Limits	Flag						
1,2-Dichloroethane-d4	109	70-130						2/5/13 9:19	
Toluene-d8	101	70-130						2/5/13 9:19	
4-Bromofluorobenzene	92.4	70-130						2/5/13 9:19	



Project Location: Mystic, CT

Sample Description:

Work Order: 13A0792

Date Received: 1/30/2013

Field Sample #: 1273873

Sampled: 1/30/2013 14:21

Sample ID: 13A0792-03

Sample Matrix: Soil

## Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	2/5/13	2/6/13 12:01	CMR
Acenaphthylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	2/5/13	2/6/13 12:01	CMR
Anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	2/5/13	2/6/13 12:01	CMR
Benzo(a)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	2/5/13	2/6/13 12:01	CMR
Benzo(a)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	2/5/13	2/6/13 12:01	CMR
Benzo(b)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	2/5/13	2/6/13 12:01	CMR
Benzo(g,h,i)perylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	2/5/13	2/6/13 12:01	CMR
Benzo(k)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	2/5/13	2/6/13 12:01	CMR
Chrysene	ND	0.19	mg/Kg dry	1		SW-846 8270D	2/5/13	2/6/13 12:01	CMR
Dibenz(a,h)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	2/5/13	2/6/13 12:01	CMR
Fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	2/5/13	2/6/13 12:01	CMR
Fluorene	ND	0.19	mg/Kg dry	1		SW-846 8270D	2/5/13	2/6/13 12:01	CMR
Indeno(1,2,3-cd)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	2/5/13	2/6/13 12:01	CMR
2-Methylnaphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	2/5/13	2/6/13 12:01	CMR
Naphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	2/5/13	2/6/13 12:01	CMR
Phenanthrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	2/5/13	2/6/13 12:01	CMR
Pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	2/5/13	2/6/13 12:01	CMR
Surrogates	% Recovery	Recovery Limits	Flag						
Nitrobenzene-d5	97.8	30-130							
2-Fluorobiphenyl	103	30-130							
Terphenyl-d14	120	30-130							



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

Project Location: Mystic, CT

Sample Description:

Work Order: 13A0792

Date Received: 1/30/2013

Field Sample #: 1273873

Sampled: 1/30/2013 14:21

Sample ID: 13A0792-03

Sample Matrix: Soil

#### Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	ND	11	mg/Kg dry	1		CTDEP ETPH	2/5/13	2/6/13 5:57	SCS
Surrogates	% Recovery		Recovery Limits		Flag				
o-Terphenyl	66.5		50-150			2/6/13 5:57			



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

Project Location: Mystic, CT

Sample Description:

Work Order: 13A0792

Date Received: 1/30/2013

Field Sample #: 1273873

Sampled: 1/30/2013 14:21

Sample ID: 13A0792-03

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	90.0		% Wt	1		SM 2540G	2/1/13	2/2/13 10:55	RH



Project Location: Mystic, CT

Sample Description:

Work Order: 13A0792

Date Received: 1/30/2013

Field Sample #: 1273874

Sampled: 1/30/2013 12:00

Sample ID: 13A0792-04

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.10	mg/Kg wet	1		SW-846 8260C	2/5/13	2/5/13 11:08	MFF
Acrylonitrile	ND	0.0060	mg/Kg wet	1	V-16	SW-846 8260C	2/5/13	2/5/13 11:08	MFF
Benzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	2/5/13	2/5/13 11:08	MFF
Bromobenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	2/5/13	2/5/13 11:08	MFF
Bromodichloromethane	ND	0.0020	mg/Kg wet	1		SW-846 8260C	2/5/13	2/5/13 11:08	MFF
Bromoform	ND	0.0020	mg/Kg wet	1		SW-846 8260C	2/5/13	2/5/13 11:08	MFF
Bromomethane	ND	0.010	mg/Kg wet	1		SW-846 8260C	2/5/13	2/5/13 11:08	MFF
2-Butanone (MEK)	ND	0.040	mg/Kg wet	1		SW-846 8260C	2/5/13	2/5/13 11:08	MFF
n-Butylbenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	2/5/13	2/5/13 11:08	MFF
sec-Butylbenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	2/5/13	2/5/13 11:08	MFF
tert-Butylbenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	2/5/13	2/5/13 11:08	MFF
Carbon Disulfide	ND	0.0060	mg/Kg wet	1		SW-846 8260C	2/5/13	2/5/13 11:08	MFF
Carbon Tetrachloride	ND	0.0020	mg/Kg wet	1		SW-846 8260C	2/5/13	2/5/13 11:08	MFF
Chlorobenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	2/5/13	2/5/13 11:08	MFF
Chlorodibromomethane	ND	0.0010	mg/Kg wet	1		SW-846 8260C	2/5/13	2/5/13 11:08	MFF
Chloroethane	ND	0.020	mg/Kg wet	1		SW-846 8260C	2/5/13	2/5/13 11:08	MFF
Chloroform	ND	0.0040	mg/Kg wet	1		SW-846 8260C	2/5/13	2/5/13 11:08	MFF
Chloromethane	ND	0.010	mg/Kg wet	1		SW-846 8260C	2/5/13	2/5/13 11:08	MFF
2-Chlorotoluene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	2/5/13	2/5/13 11:08	MFF
4-Chlorotoluene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	2/5/13	2/5/13 11:08	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg wet	1	V-16	SW-846 8260C	2/5/13	2/5/13 11:08	MFF
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet	1		SW-846 8260C	2/5/13	2/5/13 11:08	MFF
Dibromomethane	ND	0.0020	mg/Kg wet	1		SW-846 8260C	2/5/13	2/5/13 11:08	MFF
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	2/5/13	2/5/13 11:08	MFF
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	2/5/13	2/5/13 11:08	MFF
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	2/5/13	2/5/13 11:08	MFF
trans-1,4-Dichloro-2-butene	ND	0.0040	mg/Kg wet	1		SW-846 8260C	2/5/13	2/5/13 11:08	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.020	mg/Kg wet	1		SW-846 8260C	2/5/13	2/5/13 11:08	MFF
1,1-Dichloroethane	ND	0.0020	mg/Kg wet	1		SW-846 8260C	2/5/13	2/5/13 11:08	MFF
1,2-Dichloroethane	ND	0.0020	mg/Kg wet	1		SW-846 8260C	2/5/13	2/5/13 11:08	MFF
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet	1		SW-846 8260C	2/5/13	2/5/13 11:08	MFF
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	2/5/13	2/5/13 11:08	MFF
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	2/5/13	2/5/13 11:08	MFF
1,2-Dichloropropane	ND	0.0020	mg/Kg wet	1		SW-846 8260C	2/5/13	2/5/13 11:08	MFF
1,3-Dichloropropane	ND	0.0010	mg/Kg wet	1		SW-846 8260C	2/5/13	2/5/13 11:08	MFF
2,2-Dichloropropane	ND	0.0020	mg/Kg wet	1		SW-846 8260C	2/5/13	2/5/13 11:08	MFF
1,1-Dichloropropene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	2/5/13	2/5/13 11:08	MFF
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg wet	1		SW-846 8260C	2/5/13	2/5/13 11:08	MFF
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg wet	1		SW-846 8260C	2/5/13	2/5/13 11:08	MFF
Ethylbenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	2/5/13	2/5/13 11:08	MFF
Hexachlorobutadiene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	2/5/13	2/5/13 11:08	MFF
2-Hexanone (MBK)	ND	0.020	mg/Kg wet	1		SW-846 8260C	2/5/13	2/5/13 11:08	MFF
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet	1		SW-846 8260C	2/5/13	2/5/13 11:08	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg wet	1		SW-846 8260C	2/5/13	2/5/13 11:08	MFF



Project Location: Mystic, CT

Sample Description:

Work Order: 13A0792

Date Received: 1/30/2013

Field Sample #: 1273874

Sampled: 1/30/2013 12:00

Sample ID: 13A0792-04

Sample Matrix: Soil

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet	1		SW-846 8260C	2/5/13	2/5/13 11:08	MFF
Methylene Chloride	ND	0.020	mg/Kg wet	1		SW-846 8260C	2/5/13	2/5/13 11:08	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet	1		SW-846 8260C	2/5/13	2/5/13 11:08	MFF
Naphthalene	ND	0.0040	mg/Kg wet	1		SW-846 8260C	2/5/13	2/5/13 11:08	MFF
n-Propylbenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	2/5/13	2/5/13 11:08	MFF
Styrene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	2/5/13	2/5/13 11:08	MFF
1,1,1,2-Tetrachloroethane	ND	0.0020	mg/Kg wet	1		SW-846 8260C	2/5/13	2/5/13 11:08	MFF
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg wet	1		SW-846 8260C	2/5/13	2/5/13 11:08	MFF
Tetrachloroethylene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	2/5/13	2/5/13 11:08	MFF
Tetrahydrofuran	ND	0.010	mg/Kg wet	1	V-16	SW-846 8260C	2/5/13	2/5/13 11:08	MFF
Toluene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	2/5/13	2/5/13 11:08	MFF
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	2/5/13	2/5/13 11:08	MFF
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	2/5/13	2/5/13 11:08	MFF
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet	1		SW-846 8260C	2/5/13	2/5/13 11:08	MFF
1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet	1		SW-846 8260C	2/5/13	2/5/13 11:08	MFF
Trichloroethylene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	2/5/13	2/5/13 11:08	MFF
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet	1		SW-846 8260C	2/5/13	2/5/13 11:08	MFF
1,2,3-Trichloropropane	ND	0.0020	mg/Kg wet	1		SW-846 8260C	2/5/13	2/5/13 11:08	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	mg/Kg wet	1		SW-846 8260C	2/5/13	2/5/13 11:08	MFF
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	2/5/13	2/5/13 11:08	MFF
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	2/5/13	2/5/13 11:08	MFF
Vinyl Chloride	ND	0.010	mg/Kg wet	1		SW-846 8260C	2/5/13	2/5/13 11:08	MFF
m+p Xylene	ND	0.0040	mg/Kg wet	1		SW-846 8260C	2/5/13	2/5/13 11:08	MFF
o-Xylene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	2/5/13	2/5/13 11:08	MFF
Surrogates	% Recovery	Recovery Limits	Flag						
1,2-Dichloroethane-d4	114	70-130							
Toluene-d8	100	70-130							
4-Bromofluorobenzene	95.8	70-130							



Project Location: Mystic, CT

Sample Description:

Work Order: 13A0792

Date Received: 1/30/2013

Field Sample #: 1273926

Sampled: 1/30/2013 14:45

Sample ID: 13A0792-05

Sample Matrix: Ground Water

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	5.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 14:40	EEH
Acrylonitrile	ND	2.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 14:40	EEH
Benzene	ND	0.50	µg/L	1		SW-846 8260C	2/1/13	2/1/13 14:40	EEH
Bromobenzene	ND	0.50	µg/L	1		SW-846 8260C	2/1/13	2/1/13 14:40	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	2/1/13	2/1/13 14:40	EEH
Bromoform	ND	0.50	µg/L	1		SW-846 8260C	2/1/13	2/1/13 14:40	EEH
Bromomethane	ND	5.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 14:40	EEH
2-Butanone (MEK)	ND	10	µg/L	1		SW-846 8260C	2/1/13	2/1/13 14:40	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 14:40	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 14:40	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 14:40	EEH
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 14:40	EEH
Carbon Tetrachloride	ND	0.50	µg/L	1		SW-846 8260C	2/1/13	2/1/13 14:40	EEH
Chlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	2/1/13	2/1/13 14:40	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	2/1/13	2/1/13 14:40	EEH
Chloroethane	ND	0.50	µg/L	1		SW-846 8260C	2/1/13	2/1/13 14:40	EEH
Chloroform	ND	0.50	µg/L	1		SW-846 8260C	2/1/13	2/1/13 14:40	EEH
Chloromethane	ND	0.50	µg/L	1	V-05	SW-846 8260C	2/1/13	2/1/13 14:40	EEH
2-Chlorotoluene	ND	0.50	µg/L	1		SW-846 8260C	2/1/13	2/1/13 14:40	EEH
4-Chlorotoluene	ND	0.50	µg/L	1		SW-846 8260C	2/1/13	2/1/13 14:40	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.50	µg/L	1		SW-846 8260C	2/1/13	2/1/13 14:40	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	2/1/13	2/1/13 14:40	EEH
Dibromomethane	ND	0.50	µg/L	1		SW-846 8260C	2/1/13	2/1/13 14:40	EEH
1,2-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	2/1/13	2/1/13 14:40	EEH
1,3-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	2/1/13	2/1/13 14:40	EEH
1,4-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	2/1/13	2/1/13 14:40	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 14:40	EEH
Dichlorodifluoromethane (Freon 12)	ND	0.50	µg/L	1		SW-846 8260C	2/1/13	2/1/13 14:40	EEH
1,1-Dichloroethane	ND	0.50	µg/L	1		SW-846 8260C	2/1/13	2/1/13 14:40	EEH
1,2-Dichloroethane	ND	0.50	µg/L	1		SW-846 8260C	2/1/13	2/1/13 14:40	EEH
1,1-Dichloroethylene	ND	0.50	µg/L	1		SW-846 8260C	2/1/13	2/1/13 14:40	EEH
cis-1,2-Dichloroethylene	ND	0.50	µg/L	1		SW-846 8260C	2/1/13	2/1/13 14:40	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 14:40	EEH
1,2-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	2/1/13	2/1/13 14:40	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	2/1/13	2/1/13 14:40	EEH
2,2-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	2/1/13	2/1/13 14:40	EEH
1,1-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	2/1/13	2/1/13 14:40	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	2/1/13	2/1/13 14:40	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	2/1/13	2/1/13 14:40	EEH
Ethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	2/1/13	2/1/13 14:40	EEH
Hexachlorobutadiene	ND	0.40	µg/L	1		SW-846 8260C	2/1/13	2/1/13 14:40	EEH
2-Hexanone (MBK)	ND	5.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 14:40	EEH
Isopropylbenzene (Cumene)	ND	0.50	µg/L	1		SW-846 8260C	2/1/13	2/1/13 14:40	EEH
p-Isopropyltoluene (p-Cymene)	ND	0.50	µg/L	1		SW-846 8260C	2/1/13	2/1/13 14:40	EEH



Project Location: Mystic, CT

Sample Description:

Work Order: 13A0792

Date Received: 1/30/2013

Field Sample #: 1273926

Sampled: 1/30/2013 14:45

Sample ID: 13A0792-05

Sample Matrix: Ground Water

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.50	µg/L	1		SW-846 8260C	2/1/13	2/1/13 14:40	EEH
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 14:40	EEH
4-Methyl-2-pentanone (MIBK)	ND	5.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 14:40	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 14:40	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 14:40	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 14:40	EEH
1,1,1,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	2/1/13	2/1/13 14:40	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	2/1/13	2/1/13 14:40	EEH
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 14:40	EEH
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	2/1/13	2/1/13 14:40	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 14:40	EEH
1,2,3-Trichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	2/1/13	2/1/13 14:40	EEH
1,2,4-Trichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	2/1/13	2/1/13 14:40	EEH
1,1,1-Trichloroethane	ND	0.50	µg/L	1		SW-846 8260C	2/1/13	2/1/13 14:40	EEH
1,1,2-Trichloroethane	ND	0.50	µg/L	1		SW-846 8260C	2/1/13	2/1/13 14:40	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 14:40	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 14:40	EEH
1,2,3-Trichloropropane	ND	0.50	µg/L	1		SW-846 8260C	2/1/13	2/1/13 14:40	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	µg/L	1		SW-846 8260C	2/1/13	2/1/13 14:40	EEH
1,2,4-Trimethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	2/1/13	2/1/13 14:40	EEH
1,3,5-Trimethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	2/1/13	2/1/13 14:40	EEH
Vinyl Chloride	ND	1.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 14:40	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 14:40	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	2/1/13	2/1/13 14:40	EEH
Surrogates	% Recovery	Recovery Limits	Flag						
1,2-Dichloroethane-d4	91.1	70-130							
Toluene-d8	99.7	70-130							
4-Bromofluorobenzene	104	70-130							



Project Location: Mystic, CT

Sample Description:

Work Order: 13A0792

Date Received: 1/30/2013

Field Sample #: 1273926

Sampled: 1/30/2013 14:45

Sample ID: 13A0792-05

Sample Matrix: Ground Water

## Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene (low)	ND	0.30	µg/L	1		SW-846 8270D	2/1/13	2/4/13 15:13	BGL
Acenaphthylene (low)	ND	0.30	µg/L	1		SW-846 8270D	2/1/13	2/4/13 15:13	BGL
Anthracene (low)	ND	0.20	µg/L	1		SW-846 8270D	2/1/13	2/4/13 15:13	BGL
Benzo(a)anthracene (low)	ND	0.050	µg/L	1	B-05	SW-846 8270D	2/1/13	2/4/13 15:13	BGL
Benzo(a)pyrene (low)	ND	0.10	µg/L	1		SW-846 8270D	2/1/13	2/4/13 15:13	BGL
Benzo(b)fluoranthene (low)	ND	0.050	µg/L	1	B-05	SW-846 8270D	2/1/13	2/4/13 15:13	BGL
Benzo(g,h,i)perylene (low)	ND	0.50	µg/L	1		SW-846 8270D	2/1/13	2/4/13 15:13	BGL
Benzo(k)fluoranthene (low)	ND	0.20	µg/L	1		SW-846 8270D	2/1/13	2/4/13 15:13	BGL
Chrysene (low)	ND	0.20	µg/L	1		SW-846 8270D	2/1/13	2/4/13 15:13	BGL
Dibenz(a,h)anthracene (low)	ND	0.20	µg/L	1		SW-846 8270D	2/1/13	2/4/13 15:13	BGL
Fluoranthene (low)	ND	0.50	µg/L	1		SW-846 8270D	2/1/13	2/4/13 15:13	BGL
Fluorene (low)	ND	1.0	µg/L	1		SW-846 8270D	2/1/13	2/4/13 15:13	BGL
Indeno(1,2,3-cd)pyrene (low)	ND	0.20	µg/L	1		SW-846 8270D	2/1/13	2/4/13 15:13	BGL
2-Methylnaphthalene (low)	ND	1.0	µg/L	1		SW-846 8270D	2/1/13	2/4/13 15:13	BGL
Naphthalene (low)	ND	1.0	µg/L	1		SW-846 8270D	2/1/13	2/4/13 15:13	BGL
Phenanthrene (low)	ND	0.050	µg/L	1	B-05	SW-846 8270D	2/1/13	2/4/13 15:13	BGL
Pyrene (low)	ND	1.0	µg/L	1		SW-846 8270D	2/1/13	2/4/13 15:13	BGL
Surrogates	% Recovery	Recovery Limits	Flag						
Nitrobenzene-d5 (low)	84.5	30-130							
2-Fluorobiphenyl (low)	83.3	30-130							
Terphenyl-d14 (low)	77.0	30-130							



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

Project Location: Mystic, CT

Sample Description:

Work Order: 13A0792

Date Received: 1/30/2013

Field Sample #: 1273926

Sampled: 1/30/2013 14:45

Sample ID: 13A0792-05

Sample Matrix: Ground Water

**Petroleum Hydrocarbons Analyses**

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	ND	0.075	mg/L	1		CTDEP ETPH	2/4/13	2/5/13 20:14	SCS
Surrogates	% Recovery		Recovery Limits		Flag				
o-Terphenyl	72.2		50-150			2/5/13 20:14			



### Sample Extraction Data

**Prep Method: SW-846 3546-CTDEP ETPH**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13A0792-01 [1273871]	B067235	30.3	1.00	02/05/13
13A0792-03 [1273873]	B067235	30.2	1.00	02/05/13

**Prep Method: SW-846 3510C-CTDEP ETPH**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13A0792-05 [1273926]	B067154	1000	1.00	02/04/13

**Prep Method: % Solids-SM 2540G**

Lab Number [Field ID]	Batch	Date
13A0792-01 [1273871]	B067059	02/01/13
13A0792-03 [1273873]	B067059	02/01/13

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13A0792-01 [1273871]	B067276	10.6	10.0	02/05/13
13A0792-03 [1273873]	B067276	11.9	10.0	02/05/13
13A0792-04 [1273874]	B067276	5.00	10.0	02/05/13

**Prep Method: SW-846 5030B-SW-846 8260C**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13A0792-05 [1273926]	B067047	5	5.00	02/01/13

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13A0792-01 [1273871]	B067249	30.7	1.00	02/05/13
13A0792-03 [1273873]	B067249	30.4	1.00	02/05/13

**Prep Method: SW-846 3510C-SW-846 8270D**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13A0792-05 [1273926]	B067039	1000	1.00	02/01/13



**QUALITY CONTROL**
**Volatile Organic Compounds by GC/MS - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B067047 - SW-846 5030B**
**Blank (B067047-BLK1)**

Prepared &amp; Analyzed: 02/01/13

Acetone	ND	5.0	µg/L							
Acrylonitrile	ND	2.0	µg/L							
Benzene	ND	0.50	µg/L							
Bromobenzene	ND	0.50	µg/L							
Bromodichloromethane	ND	0.50	µg/L							
Bromoform	ND	0.50	µg/L							
Bromomethane	ND	5.0	µg/L							
2-Butanone (MEK)	ND	10	µg/L							
n-Butylbenzene	ND	1.0	µg/L							
sec-Butylbenzene	ND	1.0	µg/L							
tert-Butylbenzene	ND	1.0	µg/L							
Carbon Disulfide	ND	5.0	µg/L							
Carbon Tetrachloride	ND	0.50	µg/L							
Chlorobenzene	ND	0.50	µg/L							
Chlorodibromomethane	ND	0.50	µg/L							
Chloroethane	ND	0.50	µg/L							
Chloroform	ND	0.50	µg/L							
Chloromethane	ND	0.50	µg/L							V-05
2-Chlorotoluene	ND	0.50	µg/L							
4-Chlorotoluene	ND	0.50	µg/L							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.50	µg/L							
1,2-Dibromoethane (EDB)	ND	0.50	µg/L							
Dibromomethane	ND	0.50	µg/L							
1,2-Dichlorobenzene	ND	0.50	µg/L							
1,3-Dichlorobenzene	ND	0.50	µg/L							
1,4-Dichlorobenzene	ND	0.50	µg/L							
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L							
Dichlorodifluoromethane (Freon 12)	ND	0.50	µg/L							
1,1-Dichloroethane	ND	0.50	µg/L							
1,2-Dichloroethane	ND	0.50	µg/L							
1,1-Dichloroethylene	ND	0.50	µg/L							
cis-1,2-Dichloroethylene	ND	0.50	µg/L							
trans-1,2-Dichloroethylene	ND	1.0	µg/L							
1,2-Dichloropropane	ND	0.50	µg/L							
1,3-Dichloropropane	ND	0.50	µg/L							
2,2-Dichloropropane	ND	0.50	µg/L							
1,1-Dichloropropene	ND	0.50	µg/L							
cis-1,3-Dichloropropene	ND	0.50	µg/L							
trans-1,3-Dichloropropene	ND	0.50	µg/L							
Ethylbenzene	ND	0.50	µg/L							
Hexachlorobutadiene	ND	0.40	µg/L							
2-Hexanone (MBK)	ND	5.0	µg/L							
Isopropylbenzene (Cumene)	ND	0.50	µg/L							
p-Isopropyltoluene (p-Cymene)	ND	0.50	µg/L							
Methyl tert-Butyl Ether (MTBE)	ND	0.50	µg/L							
Methylene Chloride	ND	5.0	µg/L							
4-Methyl-2-pentanone (MIBK)	ND	5.0	µg/L							
Naphthalene	ND	2.0	µg/L							
n-Propylbenzene	ND	1.0	µg/L							
Styrene	ND	1.0	µg/L							
1,1,1,2-Tetrachloroethane	ND	0.50	µg/L							
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L							



**QUALITY CONTROL**
**Volatile Organic Compounds by GC/MS - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B067047 - SW-846 5030B</b>										
<b>Blank (B067047-BLK1)</b>										
Prepared & Analyzed: 02/01/13										
Tetrachloroethylene	ND	1.0	µg/L							
Tetrahydrofuran	ND	10	µg/L							
Toluene	ND	1.0	µg/L							
1,2,3-Trichlorobenzene	ND	0.50	µg/L							
1,2,4-Trichlorobenzene	ND	0.50	µg/L							
1,1,1-Trichloroethane	ND	0.50	µg/L							
1,1,2-Trichloroethane	ND	0.50	µg/L							
Trichloroethylene	ND	1.0	µg/L							
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L							
1,2,3-Trichloropropane	ND	0.50	µg/L							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	µg/L							
1,2,4-Trimethylbenzene	ND	0.50	µg/L							
1,3,5-Trimethylbenzene	ND	0.50	µg/L							
Vinyl Chloride	ND	1.0	µg/L							
m+p Xylene	ND	2.0	µg/L							
o-Xylene	ND	1.0	µg/L							
Surrogate: 1,2-Dichloroethane-d4	22.1		µg/L	25.0		88.4	70-130			
Surrogate: Toluene-d8	25.3		µg/L	25.0		101	70-130			
Surrogate: 4-Bromofluorobenzene	26.3		µg/L	25.0		105	70-130			
<b>LCS (B067047-BS1)</b>										
Prepared & Analyzed: 02/01/13										
Acetone	98.4	5.0	µg/L	100		98.4	70-130			
Acrylonitrile	10.3	2.0	µg/L	10.0		103	70-130			
Benzene	9.44	0.50	µg/L	10.0		94.4	70-130			
Bromobenzene	9.69	0.50	µg/L	10.0		96.9	70-130			
Bromodichloromethane	10.5	0.50	µg/L	10.0		105	70-130			
Bromoform	10.5	0.50	µg/L	10.0		105	70-130			
Bromomethane	10.4	5.0	µg/L	10.0		104	70-130			V-20
2-Butanone (MEK)	106	10	µg/L	100		106	70-130			
n-Butylbenzene	9.77	1.0	µg/L	10.0		97.7	70-130			
sec-Butylbenzene	9.96	1.0	µg/L	10.0		99.6	70-130			
tert-Butylbenzene	9.81	1.0	µg/L	10.0		98.1	70-130			
Carbon Disulfide	99.1	5.0	µg/L	100		99.1	70-130			
Carbon Tetrachloride	10.0	0.50	µg/L	10.0		100	70-130			
Chlorobenzene	9.12	0.50	µg/L	10.0		91.2	70-130			
Chlorodibromomethane	10.8	0.50	µg/L	10.0		108	70-130			
Chloroethane	9.07	0.50	µg/L	10.0		90.7	70-130			
Chloroform	9.50	0.50	µg/L	10.0		95.0	70-130			
Chloromethane	7.99	0.50	µg/L	10.0		79.9	70-130			V-05
2-Chlorotoluene	9.92	0.50	µg/L	10.0		99.2	70-130			
4-Chlorotoluene	10.0	0.50	µg/L	10.0		100	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	10.5	0.50	µg/L	10.0		105	70-130			
1,2-Dibromoethane (EDB)	11.2	0.50	µg/L	10.0		112	70-130			
Dibromomethane	10.1	0.50	µg/L	10.0		101	70-130			
1,2-Dichlorobenzene	9.15	0.50	µg/L	10.0		91.5	70-130			
1,3-Dichlorobenzene	9.83	0.50	µg/L	10.0		98.3	70-130			
1,4-Dichlorobenzene	9.35	0.50	µg/L	10.0		93.5	70-130			
trans-1,4-Dichloro-2-butene	9.30	2.0	µg/L	10.0		93.0	70-130			
Dichlorodifluoromethane (Freon 12)	9.19	0.50	µg/L	10.0		91.9	70-130			
1,1-Dichloroethane	9.83	0.50	µg/L	10.0		98.3	70-130			
1,2-Dichloroethane	9.32	0.50	µg/L	10.0		93.2	70-130			
1,1-Dichloroethylene	10.1	0.50	µg/L	10.0		101	70-130			



**QUALITY CONTROL**
**Volatile Organic Compounds by GC/MS - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B067047 - SW-846 5030B**
**LCS (B067047-BS1)**

Prepared &amp; Analyzed: 02/01/13

cis-1,2-Dichloroethylene	9.52	0.50	µg/L	10.0		95.2	70-130			
trans-1,2-Dichloroethylene	10.1	1.0	µg/L	10.0		101	70-130			
1,2-Dichloropropane	11.2	0.50	µg/L	10.0		112	70-130			
1,3-Dichloropropane	10.8	0.50	µg/L	10.0		108	70-130			
2,2-Dichloropropane	9.36	0.50	µg/L	10.0		93.6	70-130			
1,1-Dichloropropene	9.69	0.50	µg/L	10.0		96.9	70-130			
cis-1,3-Dichloropropene	10.8	0.50	µg/L	10.0		108	70-130			
trans-1,3-Dichloropropene	11.2	0.50	µg/L	10.0		112	70-130			
Ethylbenzene	10.0	0.50	µg/L	10.0		100	70-130			
Hexachlorobutadiene	9.36	0.40	µg/L	10.0		93.6	70-130			
2-Hexanone (MBK)	126	5.0	µg/L	100		126	70-130			
Isopropylbenzene (Cumene)	9.55	0.50	µg/L	10.0		95.5	70-130			
p-Isopropyltoluene (p-Cymene)	10.1	0.50	µg/L	10.0		101	70-130			
Methyl tert-Butyl Ether (MTBE)	10.0	0.50	µg/L	10.0		100	70-130			
Methylene Chloride	10.0	5.0	µg/L	10.0		100	70-130			
4-Methyl-2-pentanone (MIBK)	129	5.0	µg/L	100		129	70-130			
Naphthalene	9.45	2.0	µg/L	10.0		94.5	70-130			
n-Propylbenzene	9.81	1.0	µg/L	10.0		98.1	70-130			
Styrene	9.86	1.0	µg/L	10.0		98.6	70-130			
1,1,1,2-Tetrachloroethane	9.75	0.50	µg/L	10.0		97.5	70-130			
1,1,2,2-Tetrachloroethane	10.5	0.50	µg/L	10.0		105	70-130			
Tetrachloroethylene	11.4	1.0	µg/L	10.0		114	70-130			
Tetrahydrofuran	10.2	10	µg/L	10.0		102	70-130			
Toluene	11.0	1.0	µg/L	10.0		110	70-130			
1,2,3-Trichlorobenzene	9.08	0.50	µg/L	10.0		90.8	70-130			
1,2,4-Trichlorobenzene	9.09	0.50	µg/L	10.0		90.9	70-130			
1,1,1-Trichloroethane	9.66	0.50	µg/L	10.0		96.6	70-130			
1,1,2-Trichloroethane	11.2	0.50	µg/L	10.0		112	70-130			
Trichloroethylene	10.3	1.0	µg/L	10.0		103	70-130			
Trichlorofluoromethane (Freon 11)	9.87	2.0	µg/L	10.0		98.7	70-130			
1,2,3-Trichloropropane	10.3	0.50	µg/L	10.0		103	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.42	0.50	µg/L	10.0		94.2	70-130			
1,2,4-Trimethylbenzene	10.1	0.50	µg/L	10.0		101	70-130			
1,3,5-Trimethylbenzene	10.1	0.50	µg/L	10.0		101	70-130			
Vinyl Chloride	7.40	1.0	µg/L	10.0		74.0	70-130			
m+p Xylene	20.1	2.0	µg/L	20.0		101	70-130			
o-Xylene	10.0	1.0	µg/L	10.0		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	22.8		µg/L	25.0		91.1	70-130			
Surrogate: Toluene-d8	26.5		µg/L	25.0		106	70-130			
Surrogate: 4-Bromofluorobenzene	25.5		µg/L	25.0		102	70-130			

**Batch B067276 - SW-846 5035**
**Blank (B067276-BLK1)**

Prepared &amp; Analyzed: 02/05/13

Acetone	ND	0.10	mg/Kg wet							
Acrylonitrile	ND	0.0060	mg/Kg wet							V-16
Benzene	ND	0.0020	mg/Kg wet							
Bromobenzene	ND	0.0020	mg/Kg wet							
Bromodichloromethane	ND	0.0020	mg/Kg wet							
Bromoform	ND	0.0020	mg/Kg wet							
Bromomethane	ND	0.010	mg/Kg wet							
2-Butanone (MEK)	ND	0.040	mg/Kg wet							



**QUALITY CONTROL**
**Volatile Organic Compounds by GC/MS - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B067276 - SW-846 5035</b>										
<b>Blank (B067276-BLK1)</b>				Prepared & Analyzed: 02/05/13						
n-Butylbenzene	ND	0.0020	mg/Kg wet							
sec-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butylbenzene	ND	0.0020	mg/Kg wet							
Carbon Disulfide	ND	0.0060	mg/Kg wet							
Carbon Tetrachloride	ND	0.0020	mg/Kg wet							
Chlorobenzene	ND	0.0020	mg/Kg wet							
Chlorodibromomethane	ND	0.0010	mg/Kg wet							
Chloroethane	ND	0.020	mg/Kg wet							
Chloroform	ND	0.0040	mg/Kg wet							
Chloromethane	ND	0.010	mg/Kg wet							
2-Chlorotoluene	ND	0.0020	mg/Kg wet							
4-Chlorotoluene	ND	0.0020	mg/Kg wet							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg wet							V-16
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet							
Dibromomethane	ND	0.0020	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet							
trans-1,4-Dichloro-2-butene	ND	0.0040	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.020	mg/Kg wet							
1,1-Dichloroethane	ND	0.0020	mg/Kg wet							
1,2-Dichloroethane	ND	0.0020	mg/Kg wet							
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
1,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,3-Dichloropropane	ND	0.0010	mg/Kg wet							
2,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,1-Dichloropropene	ND	0.0020	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
Ethylbenzene	ND	0.0020	mg/Kg wet							
Hexachlorobutadiene	ND	0.0020	mg/Kg wet							
2-Hexanone (MBK)	ND	0.020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet							
Methylene Chloride	ND	0.020	mg/Kg wet							
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet							
Naphthalene	ND	0.0040	mg/Kg wet							
n-Propylbenzene	ND	0.0020	mg/Kg wet							
Styrene	ND	0.0020	mg/Kg wet							
1,1,1,2-Tetrachloroethane	ND	0.0020	mg/Kg wet							
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg wet							
Tetrachloroethylene	ND	0.0020	mg/Kg wet							
Tetrahydrofuran	ND	0.010	mg/Kg wet							V-16
Toluene	ND	0.0020	mg/Kg wet							
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet							
1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet							
Trichloroethylene	ND	0.0020	mg/Kg wet							



**QUALITY CONTROL**
**Volatile Organic Compounds by GC/MS - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B067276 - SW-846 5035</b>										
<b>Blank (B067276-BLK1)</b>				Prepared & Analyzed: 02/05/13						
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet							
1,2,3-Trichloropropane	ND	0.0020	mg/Kg wet							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet							
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg wet							
Vinyl Chloride	ND	0.010	mg/Kg wet							
m+p Xylene	ND	0.0040	mg/Kg wet							
o-Xylene	ND	0.0020	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0587		mg/Kg wet	0.0500		117	70-130			
Surrogate: Toluene-d8	0.0508		mg/Kg wet	0.0500		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.0474		mg/Kg wet	0.0500		94.7	70-130			
<b>LCS (B067276-BS1)</b>				Prepared & Analyzed: 02/05/13						
Acetone	0.172	0.10	mg/Kg wet	0.200		85.9	70-130			
Acrylonitrile	0.0171	0.0060	mg/Kg wet	0.0200		85.5	70-130			V-16
Benzene	0.0205	0.0020	mg/Kg wet	0.0200		102	70-130			
Bromobenzene	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130			
Bromodichloromethane	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130			
Bromoform	0.0195	0.0020	mg/Kg wet	0.0200		97.7	70-130			
<b>Bromomethane</b>	0.0279	0.010	mg/Kg wet	0.0200		<b>139</b>	* 70-130			L-01
2-Butanone (MEK)	0.181	0.040	mg/Kg wet	0.200		90.5	70-130			
n-Butylbenzene	0.0236	0.0020	mg/Kg wet	0.0200		118	70-130			
sec-Butylbenzene	0.0230	0.0020	mg/Kg wet	0.0200		115	70-130			
tert-Butylbenzene	0.0231	0.0020	mg/Kg wet	0.0200		116	70-130			
Carbon Disulfide	0.209	0.0060	mg/Kg wet	0.200		104	70-130			
Carbon Tetrachloride	0.0229	0.0020	mg/Kg wet	0.0200		114	70-130			
Chlorobenzene	0.0199	0.0020	mg/Kg wet	0.0200		99.3	70-130			
Chlorodibromomethane	0.0202	0.0010	mg/Kg wet	0.0200		101	70-130			
Chloroethane	0.0194	0.020	mg/Kg wet	0.0200		96.8	70-130			
Chloroform	0.0218	0.0040	mg/Kg wet	0.0200		109	70-130			
Chloromethane	0.0167	0.010	mg/Kg wet	0.0200		83.7	70-130			
2-Chlorotoluene	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130			
4-Chlorotoluene	0.0213	0.0020	mg/Kg wet	0.0200		106	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.0195	0.0020	mg/Kg wet	0.0200		97.7	70-130			V-16
1,2-Dibromoethane (EDB)	0.0196	0.0010	mg/Kg wet	0.0200		97.8	70-130			
Dibromomethane	0.0201	0.0020	mg/Kg wet	0.0200		100	70-130			
1,2-Dichlorobenzene	0.0217	0.0020	mg/Kg wet	0.0200		108	70-130			
1,3-Dichlorobenzene	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130			
1,4-Dichlorobenzene	0.0218	0.0020	mg/Kg wet	0.0200		109	70-130			
trans-1,4-Dichloro-2-butene	0.0202	0.0040	mg/Kg wet	0.0200		101	70-130			
Dichlorodifluoromethane (Freon 12)	0.0185	0.020	mg/Kg wet	0.0200		92.7	70-130			
1,1-Dichloroethane	0.0209	0.0020	mg/Kg wet	0.0200		104	70-130			
1,2-Dichloroethane	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130			
1,1-Dichloroethylene	0.0194	0.0040	mg/Kg wet	0.0200		97.0	70-130			
cis-1,2-Dichloroethylene	0.0216	0.0020	mg/Kg wet	0.0200		108	70-130			
trans-1,2-Dichloroethylene	0.0218	0.0020	mg/Kg wet	0.0200		109	70-130			
1,2-Dichloropropane	0.0196	0.0020	mg/Kg wet	0.0200		98.1	70-130			
1,3-Dichloropropane	0.0198	0.0010	mg/Kg wet	0.0200		98.9	70-130			
2,2-Dichloropropane	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130			
1,1-Dichloropropene	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130			
cis-1,3-Dichloropropene	0.0204	0.0010	mg/Kg wet	0.0200		102	70-130			
trans-1,3-Dichloropropene	0.0205	0.0010	mg/Kg wet	0.0200		102	70-130			



**QUALITY CONTROL**
**Volatile Organic Compounds by GC/MS - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B067276 - SW-846 5035**
**LCS (B067276-BS1)**

Prepared &amp; Analyzed: 02/05/13

Ethylbenzene	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130			
Hexachlorobutadiene	0.0224	0.0020	mg/Kg wet	0.0200		112	70-130			
2-Hexanone (MBK)	0.190	0.020	mg/Kg wet	0.200		94.8	70-130			
Isopropylbenzene (Cumene)	0.0215	0.0020	mg/Kg wet	0.0200		107	70-130			
p-Isopropyltoluene (p-Cymene)	0.0227	0.0020	mg/Kg wet	0.0200		114	70-130			
Methyl tert-Butyl Ether (MTBE)	0.0205	0.0040	mg/Kg wet	0.0200		103	70-130			
Methylene Chloride	0.0206	0.020	mg/Kg wet	0.0200		103	70-130			
4-Methyl-2-pentanone (MIBK)	0.192	0.020	mg/Kg wet	0.200		96.2	70-130			
Naphthalene	0.0183	0.0040	mg/Kg wet	0.0200		91.4	70-130			
n-Propylbenzene	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130			
Styrene	0.0209	0.0020	mg/Kg wet	0.0200		104	70-130			
1,1,1,2-Tetrachloroethane	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130			
1,1,2,2-Tetrachloroethane	0.0196	0.0010	mg/Kg wet	0.0200		98.1	70-130			
Tetrachloroethylene	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130			
Tetrahydrofuran	0.0193	0.010	mg/Kg wet	0.0200		96.6	70-130			V-16
Toluene	0.0188	0.0020	mg/Kg wet	0.0200		94.1	70-130			
1,2,3-Trichlorobenzene	0.0217	0.0020	mg/Kg wet	0.0200		108	70-130			
1,2,4-Trichlorobenzene	0.0216	0.0020	mg/Kg wet	0.0200		108	70-130			
1,1,1-Trichloroethane	0.0221	0.0020	mg/Kg wet	0.0200		110	70-130			
1,1,2-Trichloroethane	0.0188	0.0020	mg/Kg wet	0.0200		94.0	70-130			
Trichloroethylene	0.0205	0.0020	mg/Kg wet	0.0200		102	70-130			
Trichlorofluoromethane (Freon 11)	0.0190	0.010	mg/Kg wet	0.0200		94.9	70-130			
1,2,3-Trichloropropane	0.0196	0.0020	mg/Kg wet	0.0200		98.1	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0199	0.010	mg/Kg wet	0.0200		99.4	70-130			
1,2,4-Trimethylbenzene	0.0231	0.0020	mg/Kg wet	0.0200		116	70-130			
1,3,5-Trimethylbenzene	0.0216	0.0020	mg/Kg wet	0.0200		108	70-130			
Vinyl Chloride	0.0178	0.010	mg/Kg wet	0.0200		89.0	70-130			
m+p Xylene	0.0431	0.0040	mg/Kg wet	0.0400		108	70-130			
o-Xylene	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0557		mg/Kg wet	0.0500		111	70-130			
Surrogate: Toluene-d8	0.0504		mg/Kg wet	0.0500		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.0484		mg/Kg wet	0.0500		96.8	70-130			

**Matrix Spike (B067276-MS1)**

Source: 13A0792-03

Prepared &amp; Analyzed: 02/05/13

Acetone	0.106	0.059	mg/Kg dry	0.118	ND	89.9	70-130			
Acrylonitrile	0.00911	0.0035	mg/Kg dry	0.0118	ND	77.0	70-130			V-16
Benzene	0.0106	0.0012	mg/Kg dry	0.0118	ND	89.6	70-130			
Bromobenzene	0.0105	0.0012	mg/Kg dry	0.0118	ND	88.8	70-130			
Bromodichloromethane	0.00988	0.0012	mg/Kg dry	0.0118	ND	83.5	70-130			
Bromoform	0.00927	0.0012	mg/Kg dry	0.0118	ND	78.3	70-130			
Bromomethane	0.0124	0.0059	mg/Kg dry	0.0118	ND	105	70-130			
2-Butanone (MEK)	0.0888	0.024	mg/Kg dry	0.118	ND	75.0	70-130			
n-Butylbenzene	0.0122	0.0012	mg/Kg dry	0.0118	ND	103	70-130			
sec-Butylbenzene	0.0122	0.0012	mg/Kg dry	0.0118	ND	103	70-130			
tert-Butylbenzene	0.0125	0.0012	mg/Kg dry	0.0118	ND	106	70-130			
Carbon Disulfide	0.00954	0.0035	mg/Kg dry	0.0118	ND	80.6	70-130			
Carbon Tetrachloride	0.0113	0.0012	mg/Kg dry	0.0118	ND	95.8	70-130			
Chlorobenzene	0.0102	0.0012	mg/Kg dry	0.0118	ND	86.6	70-130			
Chlorodibromomethane	0.00942	0.00059	mg/Kg dry	0.0118	ND	79.6	70-130			
Chloroethane	0.0104	0.012	mg/Kg dry	0.0118	ND	87.8	70-130			
Chloroform	0.0110	0.0024	mg/Kg dry	0.0118	ND	93.3	70-130			
Chloromethane	0.00890	0.0059	mg/Kg dry	0.0118	ND	75.2	70-130			



## QUALITY CONTROL

## Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B067276 - SW-846 5035</b>										
<b>Matrix Spike (B067276-MS1)</b>	<b>Source: 13A0792-03</b>			Prepared & Analyzed: 02/05/13						
2-Chlorotoluene	0.0108	0.0012	mg/Kg dry	0.0118	ND	91.3	70-130			
4-Chlorotoluene	0.0111	0.0012	mg/Kg dry	0.0118	ND	93.6	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.00960	0.0012	mg/Kg dry	0.0118	ND	81.1	70-130			V-16
1,2-Dibromoethane (EDB)	0.00957	0.00059	mg/Kg dry	0.0118	ND	80.9	70-130			
Dibromomethane	0.0102	0.0012	mg/Kg dry	0.0118	ND	86.6	70-130			
1,2-Dichlorobenzene	0.0111	0.0012	mg/Kg dry	0.0118	ND	93.4	70-130			
1,3-Dichlorobenzene	0.0113	0.0012	mg/Kg dry	0.0118	ND	95.6	70-130			
1,4-Dichlorobenzene	0.0116	0.0012	mg/Kg dry	0.0118	ND	98.3	70-130			
trans-1,4-Dichloro-2-butene	0.00954	0.0024	mg/Kg dry	0.0118	ND	80.6	70-130			
<b>Dichlorodifluoromethane (Freon 12)</b>	0.00760	0.012	mg/Kg dry	0.0118	ND	<b>64.2</b> *	70-130			MS-07
1,1-Dichloroethane	0.0109	0.0012	mg/Kg dry	0.0118	ND	92.1	70-130			
1,2-Dichloroethane	0.0108	0.0012	mg/Kg dry	0.0118	ND	91.5	70-130			
1,1-Dichloroethylene	0.0100	0.0024	mg/Kg dry	0.0118	ND	84.5	70-130			
cis-1,2-Dichloroethylene	0.0104	0.0012	mg/Kg dry	0.0118	ND	88.2	70-130			
trans-1,2-Dichloroethylene	0.0105	0.0012	mg/Kg dry	0.0118	ND	88.9	70-130			
1,2-Dichloropropane	0.00998	0.0012	mg/Kg dry	0.0118	ND	84.3	70-130			
1,3-Dichloropropane	0.00983	0.00059	mg/Kg dry	0.0118	ND	83.1	70-130			
2,2-Dichloropropane	0.0107	0.0012	mg/Kg dry	0.0118	ND	90.1	70-130			
1,1-Dichloropropene	0.0115	0.0012	mg/Kg dry	0.0118	ND	96.8	70-130			
cis-1,3-Dichloropropene	0.00947	0.00059	mg/Kg dry	0.0118	ND	80.0	70-130			
trans-1,3-Dichloropropene	0.00999	0.00059	mg/Kg dry	0.0118	ND	84.4	70-130			
Ethylbenzene	0.0113	0.0012	mg/Kg dry	0.0118	ND	95.8	70-130			
Hexachlorobutadiene	0.0102	0.0012	mg/Kg dry	0.0118	ND	86.1	70-130			
2-Hexanone (MBK)	0.0925	0.012	mg/Kg dry	0.118	ND	78.1	70-130			
Isopropylbenzene (Cumene)	0.0112	0.0012	mg/Kg dry	0.0118	ND	94.5	70-130			
p-Isopropyltoluene (p-Cymene)	0.0128	0.0012	mg/Kg dry	0.0118	ND	108	70-130			
Methyl tert-Butyl Ether (MTBE)	0.0104	0.0024	mg/Kg dry	0.0118	ND	87.8	70-130			
<b>Methylene Chloride</b>	0.0106	0.012	mg/Kg dry	0.0118	0.00407	<b>55.2</b> *	70-130			MS-07
4-Methyl-2-pentanone (MIBK)	0.0940	0.012	mg/Kg dry	0.118	ND	79.4	70-130			
<b>Naphthalene</b>	0.00801	0.0024	mg/Kg dry	0.0118	ND	<b>67.7</b> *	70-130			MS-07
n-Propylbenzene	0.0110	0.0012	mg/Kg dry	0.0118	ND	93.0	70-130			
Styrene	0.0108	0.0012	mg/Kg dry	0.0118	ND	91.2	70-130			
1,1,1,2-Tetrachloroethane	0.0108	0.0012	mg/Kg dry	0.0118	ND	91.0	70-130			
1,1,2,2-Tetrachloroethane	0.00937	0.00059	mg/Kg dry	0.0118	ND	79.2	70-130			
Tetrachloroethylene	0.0106	0.0012	mg/Kg dry	0.0118	ND	89.5	70-130			
Tetrahydrofuran	0.00953	0.0059	mg/Kg dry	0.0118	ND	80.5	70-130			V-16
Toluene	0.00999	0.0012	mg/Kg dry	0.0118	ND	84.4	70-130			
1,2,3-Trichlorobenzene	0.00869	0.0012	mg/Kg dry	0.0118	ND	73.4	70-130			
1,2,4-Trichlorobenzene	0.00918	0.0012	mg/Kg dry	0.0118	ND	77.6	70-130			
1,1,1-Trichloroethane	0.0112	0.0012	mg/Kg dry	0.0118	ND	94.4	70-130			
1,1,2-Trichloroethane	0.00944	0.0012	mg/Kg dry	0.0118	ND	79.8	70-130			
Trichloroethylene	0.0105	0.0012	mg/Kg dry	0.0118	ND	88.4	70-130			
Trichlorofluoromethane (Freon 11)	0.0101	0.0059	mg/Kg dry	0.0118	ND	85.3	70-130			
1,2,3-Trichloropropane	0.00981	0.0012	mg/Kg dry	0.0118	ND	82.9	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0114	0.0059	mg/Kg dry	0.0118	ND	96.0	70-130			
1,2,4-Trimethylbenzene	0.0123	0.0012	mg/Kg dry	0.0118	ND	104	70-130			
1,3,5-Trimethylbenzene	0.0111	0.0012	mg/Kg dry	0.0118	ND	94.0	70-130			
Vinyl Chloride	0.00853	0.0059	mg/Kg dry	0.0118	ND	72.1	70-130			
m+p Xylene	0.0227	0.0024	mg/Kg dry	0.0237	ND	96.0	70-130			
o-Xylene	0.0111	0.0012	mg/Kg dry	0.0118	ND	93.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0320		mg/Kg dry	0.0296		108	70-130			



**QUALITY CONTROL**
**Volatile Organic Compounds by GC/MS - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B067276 - SW-846 5035**
**Matrix Spike (B067276-MS1)**
**Source: 13A0792-03**

Prepared &amp; Analyzed: 02/05/13

Surrogate: Toluene-d8	0.0302		mg/Kg dry	0.0296		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.0281		mg/Kg dry	0.0296		95.0	70-130			



**QUALITY CONTROL**
**Semivolatile Organic Compounds by GC/MS - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B067039 - SW-846 3510C</b>										
<b>Blank (B067039-BLK1)</b>										
Prepared: 02/01/13 Analyzed: 02/02/13										
Acenaphthene (low)	ND	0.30	µg/L							
Acenaphthylene (low)	ND	0.30	µg/L							
Anthracene (low)	ND	0.20	µg/L							
Benzo(a)anthracene (low)	0.080	0.050	µg/L							B-05
Benzo(a)pyrene (low)	ND	0.10	µg/L							
Benzo(b)fluoranthene (low)	0.090	0.050	µg/L							B-05
Benzo(g,h,i)perylene (low)	ND	0.50	µg/L							
Benzo(k)fluoranthene (low)	ND	0.20	µg/L							
Chrysene (low)	ND	0.20	µg/L							
Dibenz(a,h)anthracene (low)	ND	0.20	µg/L							
Fluoranthene (low)	ND	0.50	µg/L							
Fluorene (low)	ND	1.0	µg/L							
Indeno(1,2,3-cd)pyrene (low)	ND	0.20	µg/L							V-20
2-Methylnaphthalene (low)	ND	1.0	µg/L							
Naphthalene (low)	ND	1.0	µg/L							
Phenanthrene (low)	0.37	0.050	µg/L							B-05
Pyrene (low)	ND	1.0	µg/L							
Surrogate: Nitrobenzene-d5 (low)	83.8		µg/L	100		83.8	30-130			
Surrogate: 2-Fluorobiphenyl (low)	79.2		µg/L	100		79.2	30-130			
Surrogate: Terphenyl-d14 (low)	84.8		µg/L	100		84.8	30-130			
<b>LCS (B067039-BS1)</b>										
Prepared: 02/01/13 Analyzed: 02/04/13										
Acenaphthene (low)	80.5	7.5	µg/L	100		80.5	40-140			
Acenaphthylene (low)	81.6	7.5	µg/L	100		81.6	40-140			
Anthracene (low)	82.4	5.0	µg/L	100		82.4	40-140			
Benzo(a)anthracene (low)	84.2	1.2	µg/L	100		84.2	40-140			B
Benzo(a)pyrene (low)	84.4	2.5	µg/L	100		84.4	40-140			
Benzo(b)fluoranthene (low)	88.0	1.2	µg/L	100		88.0	40-140			B
Benzo(g,h,i)perylene (low)	82.3	12	µg/L	100		82.3	40-140			
Benzo(k)fluoranthene (low)	81.0	5.0	µg/L	100		81.0	40-140			
Chrysene (low)	76.6	5.0	µg/L	100		76.6	40-140			
Dibenz(a,h)anthracene (low)	86.0	5.0	µg/L	100		86.0	40-140			
Fluoranthene (low)	77.8	12	µg/L	100		77.8	40-140			
Fluorene (low)	82.2	25	µg/L	100		82.2	40-140			
Indeno(1,2,3-cd)pyrene (low)	87.1	5.0	µg/L	100		87.1	40-140			
2-Methylnaphthalene (low)	68.3	25	µg/L	100		68.3	40-140			
Naphthalene (low)	66.2	25	µg/L	100		66.2	40-140			
Phenanthrene (low)	73.4	1.2	µg/L	100		73.4	40-140			B
Pyrene (low)	80.2	25	µg/L	100		80.2	40-140			
Surrogate: Nitrobenzene-d5 (low)	78.0		µg/L	100		78.0	30-130			
Surrogate: 2-Fluorobiphenyl (low)	78.6		µg/L	100		78.6	30-130			
Surrogate: Terphenyl-d14 (low)	78.6		µg/L	100		78.6	30-130			



**QUALITY CONTROL**
**Semivolatile Organic Compounds by GC/MS - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B067039 - SW-846 3510C**
**LCS Dup (B067039-BSD1)**

Prepared: 02/01/13 Analyzed: 02/04/13

Acenaphthene (low)	86.0	7.5	µg/L	100		86.0	40-140	6.55	20	
Acenaphthylene (low)	87.1	7.5	µg/L	100		87.1	40-140	6.46	20	
Anthracene (low)	88.9	5.0	µg/L	100		88.9	40-140	7.62	20	
Benzo(a)anthracene (low)	90.8	1.2	µg/L	100		90.8	40-140	7.54	20	B
Benzo(a)pyrene (low)	91.2	2.5	µg/L	100		91.2	40-140	7.80	20	
Benzo(b)fluoranthene (low)	95.0	1.2	µg/L	100		95.0	40-140	7.68	20	B
Benzo(g,h,i)perylene (low)	89.0	12	µg/L	100		89.0	40-140	7.82	20	
Benzo(k)fluoranthene (low)	87.0	5.0	µg/L	100		87.0	40-140	7.23	20	
Chrysene (low)	82.3	5.0	µg/L	100		82.3	40-140	7.17	20	
Dibenz(a,h)anthracene (low)	92.2	5.0	µg/L	100		92.2	40-140	7.01	20	
Fluoranthene (low)	85.0	12	µg/L	100		85.0	40-140	8.81	20	
Fluorene (low)	88.4	25	µg/L	100		88.4	40-140	7.36	20	
Indeno(1,2,3-cd)pyrene (low)	94.2	5.0	µg/L	100		94.2	40-140	7.86	50	
2-Methylnaphthalene (low)	73.4	25	µg/L	100		73.4	40-140	7.23	20	
Naphthalene (low)	71.4	25	µg/L	100		71.4	40-140	7.67	20	
Phenanthrene (low)	78.3	1.2	µg/L	100		78.3	40-140	6.50	20	B
Pyrene (low)	85.2	25	µg/L	100		85.2	40-140	5.98	20	
Surrogate: Nitrobenzene-d5 (low)	82.9		µg/L	100		82.9	30-130			
Surrogate: 2-Fluorobiphenyl (low)	83.4		µg/L	100		83.4	30-130			
Surrogate: Terphenyl-d14 (low)	83.2		µg/L	100		83.2	30-130			

**Batch B067249 - SW-846 3546**
**Blank (B067249-BLK1)**

Prepared: 02/05/13 Analyzed: 02/06/13

Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Surrogate: Nitrobenzene-d5	3.27		mg/Kg wet	3.32		98.3	30-130			
Surrogate: 2-Fluorobiphenyl	3.42		mg/Kg wet	3.32		103	30-130			
Surrogate: Terphenyl-d14	3.92		mg/Kg wet	3.32		118	30-130			



**QUALITY CONTROL**
**Semivolatile Organic Compounds by GC/MS - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B067249 - SW-846 3546**
**LCS (B067249-BS1)**

Prepared: 02/05/13 Analyzed: 02/06/13

Acenaphthene	1.59	0.17	mg/Kg wet	1.66		95.9	40-140			
Acenaphthylene	1.54	0.17	mg/Kg wet	1.66		93.1	40-140			
Anthracene	1.67	0.17	mg/Kg wet	1.66		101	40-140			
Benzo(a)anthracene	1.64	0.17	mg/Kg wet	1.66		99.0	40-140			
Benzo(a)pyrene	1.78	0.17	mg/Kg wet	1.66		108	40-140			
Benzo(b)fluoranthene	1.92	0.17	mg/Kg wet	1.66		116	40-140			
Benzo(g,h,i)perylene	1.27	0.17	mg/Kg wet	1.66		76.8	40-140			
Benzo(k)fluoranthene	1.79	0.17	mg/Kg wet	1.66		108	40-140			
Chrysene	1.67	0.17	mg/Kg wet	1.66		101	40-140			
Dibenz(a,h)anthracene	1.50	0.17	mg/Kg wet	1.66		90.6	40-140			
Fluoranthene	1.85	0.17	mg/Kg wet	1.66		112	40-140			
Fluorene	1.64	0.17	mg/Kg wet	1.66		98.9	40-140			
Indeno(1,2,3-cd)pyrene	1.48	0.17	mg/Kg wet	1.66		89.5	40-140			
2-Methylnaphthalene	1.57	0.17	mg/Kg wet	1.66		95.1	40-140			
Naphthalene	1.51	0.17	mg/Kg wet	1.66		91.3	40-140			
Phenanthrene	1.74	0.17	mg/Kg wet	1.66		105	40-140			
Pyrene	1.57	0.17	mg/Kg wet	1.66		94.8	40-140			
Surrogate: Nitrobenzene-d5	2.98		mg/Kg wet	3.31		89.9	30-130			
Surrogate: 2-Fluorobiphenyl	3.26		mg/Kg wet	3.31		98.4	30-130			
Surrogate: Terphenyl-d14	3.50		mg/Kg wet	3.31		106	30-130			

**LCS Dup (B067249-BS1)**

Prepared: 02/05/13 Analyzed: 02/06/13

Acenaphthene	1.60	0.17	mg/Kg wet	1.66		96.2	40-140	0.602	30	
Acenaphthylene	1.54	0.17	mg/Kg wet	1.66		92.9	40-140	0.0306	30	
Anthracene	1.71	0.17	mg/Kg wet	1.66		103	40-140	2.23	30	
Benzo(a)anthracene	1.66	0.17	mg/Kg wet	1.66		100	40-140	1.44	30	
Benzo(a)pyrene	1.78	0.17	mg/Kg wet	1.66		107	40-140	0.227	30	
Benzo(b)fluoranthene	1.87	0.17	mg/Kg wet	1.66		113	40-140	2.66	30	
Benzo(g,h,i)perylene	1.11	0.17	mg/Kg wet	1.66		67.1	40-140	13.1	30	
Benzo(k)fluoranthene	1.75	0.17	mg/Kg wet	1.66		105	40-140	2.01	30	
Chrysene	1.69	0.17	mg/Kg wet	1.66		102	40-140	1.08	30	
Dibenz(a,h)anthracene	1.38	0.17	mg/Kg wet	1.66		83.2	40-140	8.09	30	
Fluoranthene	1.82	0.17	mg/Kg wet	1.66		110	40-140	1.69	30	
Fluorene	1.63	0.17	mg/Kg wet	1.66		98.1	40-140	0.562	30	
Indeno(1,2,3-cd)pyrene	1.33	0.17	mg/Kg wet	1.66		80.1	40-140	10.8	30	
2-Methylnaphthalene	1.58	0.17	mg/Kg wet	1.66		95.2	40-140	0.458	30	
Naphthalene	1.52	0.17	mg/Kg wet	1.66		91.7	40-140	0.791	30	
Phenanthrene	1.74	0.17	mg/Kg wet	1.66		105	40-140	0.294	30	
Pyrene	1.67	0.17	mg/Kg wet	1.66		100	40-140	6.17	30	
Surrogate: Nitrobenzene-d5	3.00		mg/Kg wet	3.32		90.3	30-130			
Surrogate: 2-Fluorobiphenyl	3.29		mg/Kg wet	3.32		99.1	30-130			
Surrogate: Terphenyl-d14	3.67		mg/Kg wet	3.32		111	30-130			



**QUALITY CONTROL**
**Petroleum Hydrocarbons Analyses - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B067154 - SW-846 3510C</b>										
<b>Blank (B067154-BLK1)</b>				Prepared: 02/04/13 Analyzed: 02/05/13						
CT ETPH	ND	0.075	mg/L							
Surrogate: o-Terphenyl	0.0782		mg/L	0.100		78.2	50-150			
<b>LCS (B067154-BS2)</b>				Prepared: 02/04/13 Analyzed: 02/05/13						
CT ETPH	0.763	0.075	mg/L	1.00		76.3	60-120			
Surrogate: o-Terphenyl	0.0792		mg/L	0.100		79.2	50-150			
<b>Batch B067235 - SW-846 3546</b>										
<b>Blank (B067235-BLK1)</b>				Prepared: 02/05/13 Analyzed: 02/06/13						
CT ETPH	ND	10	mg/Kg wet							
Surrogate: o-Terphenyl	2.42		mg/Kg wet	3.32		72.7	50-150			
<b>LCS (B067235-BS2)</b>				Prepared: 02/05/13 Analyzed: 02/06/13						
CT ETPH	24.8	10	mg/Kg wet	33.3		74.4	60-120			
Surrogate: o-Terphenyl	2.47		mg/Kg wet	3.33		74.0	50-150			
<b>Matrix Spike (B067235-MS1)</b>				<b>Source: 13A0792-01</b>		Prepared: 02/05/13 Analyzed: 02/06/13				
CT ETPH	34.7	11	mg/Kg dry	35.5	8.15	74.7	50-150			
Surrogate: o-Terphenyl	2.72		mg/Kg dry	3.55		76.6	50-150			
<b>Matrix Spike Dup (B067235-MSD1)</b>				<b>Source: 13A0792-01</b>		Prepared: 02/05/13 Analyzed: 02/06/13				
CT ETPH	34.9	11	mg/Kg dry	35.5	8.15	75.2	50-150	0.506	30	
Surrogate: o-Terphenyl	2.72		mg/Kg dry	3.55		76.7	50-150			



**FLAG/QUALIFIER SUMMARY**

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
B	Analyte is found in the associated blank as well as in the sample.
B-05	Data is not affected by elevated level in blank since sample(s) result is "Not Detected".
L-01	Laboratory fortified blank /laboratory control sample recovery outside of control limits. Data validation is not affected since all results are "not detected" for all samples in this batch for this compound and bias is on the high side.
MS-07	Matrix spike recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possibility of sample matrix effects that lead to low bias for reported result or non-homogeneous sample aliquot cannot be eliminated.
S-07	One associated surrogate standard recovery is outside of control limits but the other(s) is/are within limits. All recoveries are > 10%.
V-05	Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.
V-16	Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.
V-20	Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.



# CERTIFICATIONS

## Certified Analyses included in this Report

Analyte	Certifications
<b>CTDEP ETPH in Soil</b>	
CT ETPH	CT
<b>CTDEP ETPH in Water</b>	
CT ETPH	CT
<b>SW-846 8260C in Soil</b>	
Acetone	CT,NH,NY,ME
Acrylonitrile	CT,NH,NY,ME
Benzene	CT,NH,NY,ME
Bromobenzene	NH,NY,ME
Bromodichloromethane	CT,NH,NY,ME
Bromoform	CT,NH,NY,ME
Bromomethane	CT,NH,NY,ME
2-Butanone (MEK)	CT,NH,NY,ME
n-Butylbenzene	CT,NH,NY,ME
sec-Butylbenzene	CT,NH,NY,ME
tert-Butylbenzene	CT,NH,NY,ME
Carbon Disulfide	CT,NH,NY,ME
Carbon Tetrachloride	CT,NH,NY,ME
Chlorobenzene	CT,NH,NY,ME
Chlorodibromomethane	CT,NH,NY,ME
Chloroethane	CT,NH,NY,ME
Chloroform	CT,NH,NY,ME
Chloromethane	CT,NH,NY,ME
2-Chlorotoluene	CT,NH,NY,ME
4-Chlorotoluene	CT,NH,NY,ME
Dibromomethane	NH,NY,ME
1,2-Dichlorobenzene	CT,NH,NY,ME
1,3-Dichlorobenzene	CT,NH,NY,ME
1,4-Dichlorobenzene	CT,NH,NY,ME
Dichlorodifluoromethane (Freon 12)	NY,ME
1,1-Dichloroethane	CT,NH,NY,ME
1,2-Dichloroethane	CT,NH,NY,ME
1,1-Dichloroethylene	CT,NH,NY,ME
cis-1,2-Dichloroethylene	CT,NH,NY,ME
trans-1,2-Dichloroethylene	CT,NH,NY,ME
1,2-Dichloropropane	CT,NH,NY,ME
1,3-Dichloropropane	NH,NY,ME
2,2-Dichloropropane	NH,NY,ME
1,1-Dichloropropene	NH,NY,ME
cis-1,3-Dichloropropene	CT,NH,NY,ME
trans-1,3-Dichloropropene	CT,NH,NY,ME
Ethylbenzene	CT,NH,NY,ME
Hexachlorobutadiene	NH,NY,ME
2-Hexanone (MBK)	CT,NH,NY,ME
Isopropylbenzene (Cumene)	CT,NH,NY,ME
p-Isopropyltoluene (p-Cymene)	NH,NY
Methyl tert-Butyl Ether (MTBE)	NY



# CERTIFICATIONS

## Certified Analyses included in this Report

Analyte	Certifications
<b><i>SW-846 8260C in Soil</i></b>	
Methylene Chloride	CT,NH,NY,ME
4-Methyl-2-pentanone (MIBK)	CT,NH,NY
Naphthalene	NH,NY,ME
n-Propylbenzene	NH,NY
Styrene	CT,NH,NY,ME
1,1,1,2-Tetrachloroethane	CT,NH,NY,ME
1,1,2,2-Tetrachloroethane	CT,NH,NY,ME
Tetrachloroethylene	CT,NH,NY,ME
Toluene	CT,NH,NY,ME
1,2,4-Trichlorobenzene	NH,NY,ME
1,1,1-Trichloroethane	CT,NH,NY,ME
1,1,2-Trichloroethane	CT,NH,NY,ME
Trichloroethylene	CT,NH,NY,ME
Trichlorofluoromethane (Freon 11)	CT,NH,NY,ME
1,2,3-Trichloropropane	NH,NY,ME
1,2,4-Trimethylbenzene	CT,NH,NY,ME
1,3,5-Trimethylbenzene	CT,NH,NY,ME
Vinyl Chloride	CT,NH,NY,ME
m+p Xylene	CT,NH,NY,ME
o-Xylene	CT,NH,NY,ME
<b><i>SW-846 8260C in Water</i></b>	
Acetone	CT,NH,NY,ME
Acrylonitrile	CT,NY,ME,RI
Benzene	CT,NH,NY,ME,RI
Bromodichloromethane	CT,NH,NY,ME,RI
Bromoform	CT,NH,NY,ME,RI
Bromomethane	CT,NH,NY,ME,RI
2-Butanone (MEK)	CT,NH,NY,ME
n-Butylbenzene	NY,ME
sec-Butylbenzene	NY,ME
tert-Butylbenzene	NY,ME
Carbon Disulfide	CT,NH,NY,ME
Carbon Tetrachloride	CT,NH,NY,ME,RI
Chlorobenzene	CT,NH,NY,ME,RI
Chlorodibromomethane	CT,NH,NY,ME,RI
Chloroethane	CT,NH,NY,ME,RI
Chloroform	CT,NH,NY,ME,RI
Chloromethane	CT,NH,NY,ME,RI
2-Chlorotoluene	NY,ME
4-Chlorotoluene	NY,ME
Dibromomethane	NH,NY,ME
1,2-Dichlorobenzene	CT,NY,ME,RI
1,3-Dichlorobenzene	CT,NH,NY,ME,RI
1,4-Dichlorobenzene	CT,NH,NY,ME,RI
trans-1,4-Dichloro-2-butene	NH,NY,ME
Dichlorodifluoromethane (Freon 12)	NH,NY,ME,RI



# CERTIFICATIONS

## Certified Analyses included in this Report

Analyte	Certifications
<b>SW-846 8260C in Water</b>	
1,1-Dichloroethane	CT,NH,NY,ME,RI
1,2-Dichloroethane	CT,NH,NY,ME,RI
1,1-Dichloroethylene	CT,NH,NY,ME,RI
cis-1,2-Dichloroethylene	NY,ME
trans-1,2-Dichloroethylene	CT,NH,NY,ME,RI
1,2-Dichloropropane	CT,NH,NY,ME,RI
1,3-Dichloropropane	NY,ME
2,2-Dichloropropane	NH,NY,ME
1,1-Dichloropropene	NH,NY,ME
cis-1,3-Dichloropropene	CT,NH,NY,ME,RI
trans-1,3-Dichloropropene	CT,NH,NY,ME,RI
Ethylbenzene	CT,NH,NY,ME,RI
Hexachlorobutadiene	CT,NH,NY,ME
2-Hexanone (MBK)	CT,NH,NY,ME
Isopropylbenzene (Cumene)	NY,ME
p-Isopropyltoluene (p-Cymene)	CT,NH,NY,ME
Methyl tert-Butyl Ether (MTBE)	CT,NH,NY,ME
Methylene Chloride	CT,NH,NY,ME,RI
4-Methyl-2-pentanone (MIBK)	CT,NH,NY,ME
Naphthalene	NH,NY,ME
n-Propylbenzene	CT,NH,NY,ME
Styrene	CT,NH,NY,ME
1,1,1,2-Tetrachloroethane	CT,NH,NY,ME
1,1,2,2-Tetrachloroethane	CT,NH,NY,ME,RI
Tetrachloroethylene	CT,NH,NY,ME,RI
Toluene	CT,NH,NY,ME,RI
1,2,3-Trichlorobenzene	NH,NY,ME
1,2,4-Trichlorobenzene	CT,NH,NY,ME
1,1,1-Trichloroethane	CT,NH,NY,ME,RI
1,1,2-Trichloroethane	CT,NH,NY,ME,RI
Trichloroethylene	CT,NH,NY,ME,RI
Trichlorofluoromethane (Freon 11)	CT,NH,NY,ME,RI
1,2,3-Trichloropropane	NH,NY,ME
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	NY
1,2,4-Trimethylbenzene	NY,ME
1,3,5-Trimethylbenzene	NY,ME
Vinyl Chloride	CT,NH,NY,ME,RI
m+p Xylene	CT,NH,NY,ME,RI
o-Xylene	CT,NH,NY,ME,RI
<b>SW-846 8270D in Soil</b>	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA



# CERTIFICATIONS

## Certified Analyses included in this Report

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

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

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





**CON-TEST**  
ANALYTICAL LABORATORY

Phone: 413-525-2332  
Fax: 413-525-6495  
Email: info@contestlabs.com  
www.contestlabs.com

# CHAIN OF CUSTODY RECORD

39 Spruce Street  
East Longmeadow, MA 01028

Page 1 of 1

Company Name: Loose Inc

Telephone: 860-271-1571

Address: 100 Northmoor Dr

Project # 184431002

Attention: Steve Scott

Client PO#

Project Location: Meriden CT

DATA DELIVERY (check all that apply)  
☐ FAX ☒ EMAIL ☐ WEBSITE

Sampled By: V. Scott

Email: dschneider@loose.com

Project Proposal Provided? (for billing purposes)  
☐ Yes ☐ No

Format: ☐ PDF ☐ EXCEL ☐ OGIS  
☐ OTHER

Con-Test Lab ID

Client Sample ID / Description

Collection Date/Time

Analysis Date/Time

Composite

Grid

Units

Units

Units

Units

Units

Units

Units

Units

Units

Units

Units

Units

Units

Units

Units

Units

Units

Units

Units

# of Containers

Preservation

Container Code

Dissolved Metals

Field Filtered

Lab to Filter

Cont. Code:

Acidifier

Glass

P-plastic

ST-sterile

V-vial

Sealant can

T-tedlar bag

O-Other

Preservation

I-ice

M-HCl

M-Methanol

N-Nitric Acid

S-Sulfuric Acid

B-Sodium bisulfate

X-Na hydroxide

T-Na thiosulfate

O-Other

Matrix Code:

GW-groundwater

WM-wastewater

DW-drinking water

A-air

S-soil/solid

SL-sludge

O-other

Is your project MCP or RCP?

MCP Form Required

RCP Form Required

MA State DW Form Required

P-MSD #

NEIAC & AIHA-LAP, LLC

Accredited

WBE/DBE Certified

Comments:

Received by: (signature)

Date/Time

Turnaround

7-Day

10-Day

Other

RUSH!

24-Hr

48-Hr

72-Hr

14 Day

Require lab approval

Other:

Massachusetts

Detection Limit Requirements

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

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

3 3 3 3 3

4 4 4 4 4

5 5 5 5 5

6 6 6 6 6

7 7 7 7 7

8 8 8 8 8

9 9 9 9 9





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

# CHAIN OF CUSTODY RECORD

39 Spruce Street  
East Longmeadow, MA 01028

Company Name: Leicester

Address: 1600 North West Dr

Attention: Deane Scott

Project Location: Muskegon

Sampled By: K. Baker

Project Proposal Provided? (for billing purposes)  
☐ Yes ☐ No

Telephone: 800 241 7615

Project # 18H44301.002

Client PO#

DATA DELIVERY (check all that apply)  
☐ FAX ☒ EMAIL ☐ WEBSITE

Fax #

Email

Format

Collection

Analysis

Composite

Grab

Matrix Code

Lab

Code

Notes

Comments

Turnaround

7-Day

10-Day

Other

RUSH

24-Hr

48-Hr

72-Hr

4-Day

Require lab approval

Other

Massachusetts

Connecticut

## ANALYSIS REQUESTED

Dispersed Metals  
☐ Field Filtered  
☐ Lab to Filter

\*\*\*Container Code

\*\*\*Cont. Code:

A=amber glass

G=glass

P=plastic

ST=sterile

V=vial

S=summary can

T=teal bag

O=Other

\*\*\*Preservation

I=iced

H=HCL

M=Methanol

N=Nitric Acid

S=Sulfuric Acid

B=Sodium bisulfate

X=Na hydroxide

T=Na thiosulfate

O=Other

Matrix Code:

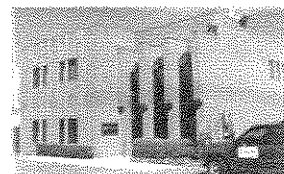
GW=groundwater

WW=wastewater

DW=drinking water



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



## Sample Receipt Checklist

CLIENT NAME: LOUREIRO RECEIVED BY: WF DATE: 1-30-13

1) Was the chain(s) of custody relinquished and signed?

Yes

No

No CoC Included

2) Does the chain agree with the samples?

Yes

No

If not, explain:

3) Are all the samples in good condition?

Yes

No

If not, explain:

4) How were the samples received:

On Ice ☒

Direct from Sampling ☐

Ambient ☐

In Cooler(s) ☒

Were the samples received in Temperature Compliance of (2-6°C)?

Yes

No

N/A

Temperature °C by Temp blank

Temperature °C by Temp gun

5.9

5) Are there Dissolved samples for the lab to filter?

Yes

No

Who was notified \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_

6) Are there any RUSH or SHORT HOLDING TIME samples?

Yes

No

Who was notified \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_

7) Location where samples are stored:



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

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

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

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

### Containers received at Con-Test

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

Laboratory Comments:

40 mL vials: # HCl 3

# Methanol 4

Time and Date Frozen:

Doc# 277

# Bisulfate

# DI Water 8

01-30-13 17:54 IN

Rev. 3 May 2012

# Thiosulfate

Unpreserved



## Lisa Worthington

---

**From:** David Scotti [dnscotti@loureiro.com]  
**Sent:** Thursday, January 31, 2013 9:33 AM  
**To:** 'Lisa Worthington'  
**Subject:** RE: Emailing: 13A0792\_COC\_01.pdf  
**Attachments:** Document.pdf

Lisa,

Please release samples collected on January 30, 2013 from hold and analyze them in accordance with the attached chain-of-custody form. Please let me know if you have any questions. Thank you.

-----Original Message-----

**From:** Lisa Worthington [<mailto:lisa.worthington@contestlabs.com>]  
**Sent:** Thursday, January 31, 2013 8:21 AM  
**To:** David Scotti  
**Subject:** Emailing: 13A0792\_COC\_01.pdf

David-  
Please provide the analyses for this CoC.  
Thank-you,

Lisa Worthington  
Project Manager  
Con-Test Analytical Laboratory  
39 Spruce St  
East Longmeadow MA 01028  
Tel: (413) 525-2332  
Fax: (413) 525-6405  
[www.contestlabs.com](http://www.contestlabs.com)

The message is ready to be sent with the following file or link attachments:

13A0792\_COC\_01.pdf

Note: To protect against computer viruses, e-mail programs may prevent sending or receiving certain types of file attachments. Check your e-mail security settings to determine how attachments are handled.



you are not the intended recipient, you are hereby notified that any review, disclosure, copying, dissemination, distribution or use of this communication is STRICTLY PROHIBITED. All prior or subsequent communications and/or investigative efforts are made with express reservation of all rights and defenses that may be available to our client or its principal(s).



CT ETPH DISCRIMINATION CHECK

Date Acquired 2/5/13  
Data File Name A0205048.D  
Sample Name ETPH 1500  
Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.23	304096	336854	-10
c - 10	1.58	325252	336854	-3
c - 12	2.31	329603	336854	-2
c - 14	2.98	338443	336854	0
c - 16	3.58	340033	336854	1
c - 18	4.19	350519	336854	4
o-Terphenyl	4.49	404357	336854	
c - 20	4.80	350589	336854	4
c - 22	5.31	351683	336854	4
c - 24	5.75	350884	336854	4
c - 26	6.15	347662	336854	3
c - 28	6.51	340123	336854	1
c - 30	6.84	335626	336854	0
c - 32	7.15	326077	336854	-3
c - 34	7.45	328309	336854	-3
c - 36	7.76	333919	336854	-1

\* One compound allowed %D <= 50%

## Samples

13A0744-02  
13A0744-35  
13A0745-12  
13A0792-05  
13A0804-01  
13A0804-07



**CT ETPH DISCRIMINATION CHECK**

Date Acquired 2/6/13  
Data File Name A0205127.D  
Sample Name ETPH 1500  
Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.26	290149	313170	-7
c - 10	1.60	307079	313170	-2
c - 12	2.31	311829	313170	0
c - 14	2.97	320162	313170	2
c - 16	3.56	319009	313170	2
c - 18	4.16	324636	313170	4
o-Terphenyl	4.46	367436	313170	
c - 20	4.77	320929	313170	2
c - 22	5.27	318648	313170	2
c - 24	5.71	316261	313170	1
c - 26	6.10	313974	313170	0
c - 28	6.46	309530	313170	-1
c - 30	6.80	310306	313170	-1
c - 32	7.11	306043	313170	-2
c - 34	7.40	311144	313170	-1
c - 36	7.70	317849	313170	1

\* One compound allowed %D <= 50%

**Samples**

13A0792-01  
13A0792-03  
13A0787-04  
13A0787-08  
13A0745-07@20X  
13A0787-02@5X





## REASONABLE CONFIDENCE PROTOCOL LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

**Laboratory Name:** Con-Test Analytical Laboratory

**Client:** Loureiro Engineering Associates

**Project Location:** Mystic, CT

**Project Number:** 13A0792

**Laboratory Sample ID(s):**

13A0792-01 thru 13A0792-05

**Sample Date(s):**

01/30/2013

**List RCP Methods Used:**

CTDEP ETPH, SW-846 8260C, SW-846 8270D

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1A	Were the method specified preservation and holding time requirements met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1B	VPH and EPH Methods only: Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3	Were samples received at an appropriate temperature (< 6 degrees C.)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5A	Were reporting limits specified or referenced on the chain-of-custody?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5B	Were these reporting limits met?	<input type="checkbox"/> Yes <input type="checkbox"/> No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence."

This form may not be altered and all questions must be answered.

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

**Authorized Signature:**

**Position:** Laboratory Manager

**Printed Name:** Daren J. Damboragian

**Date:** 02/06/13

**Name of Laboratory:** Con-Test Analytical Laboratory

**This certification form is to be used for RCP methods only.**



February 7, 2013

David Scotti  
Loureiro Engineering Associates  
100 Northwest Drive  
Plainville, CT 06062

Project Location: Mystic CT  
Client Job Number:  
Project Number: 18HM301  
Laboratory Work Order Number: 13B0120

Enclosed are results of analyses for samples received by the laboratory on February 4, 2013. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Lisa Worthington", is displayed on a light gray rectangular background.

Lisa A. Worthington  
Project Manager



Loureiro Engineering Associates  
100 Northwest Drive  
Plainville, CT 06062  
ATTN: David Scotti

REPORT DATE: 2/7/2013

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 18HM301

# ANALYTICAL SUMMARY

WORK ORDER NUMBER: 13B0120

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

PROJECT LOCATION: Mystic CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
1273939	13B0120-01	Ground Water		CTDEP ETPH SW-846 8260C SW-846 8270D	
1273939 uf	13B0120-02	Ground Water		SW-846 6020A SW-846 7470A	
1273942	13B0120-03	Ground Water		CTDEP ETPH SW-846 8260C SW-846 8270D	
1273942 uf	13B0120-04	Ground Water		SW-846 6020A SW-846 7470A	
1273943	13B0120-05	Ground Water		CTDEP ETPH SW-846 8260C SW-846 8270D	
1273943 uf	13B0120-06	Ground Water		SW-846 6020A SW-846 7470A	
1273946	13B0120-07	Ground Water		CTDEP ETPH SW-846 8260C SW-846 8270D	
1273946 uf	13B0120-08	Ground Water		SW-846 6020A SW-846 7470A	
1273947	13B0120-09	Trip Blank Water		SW-846 8260C	
1273940	13B0120-10	Ground Water		CTDEP ETPH SW-846 8260C SW-846 8270D	
1273940 uf	13B0120-11	Ground Water		SW-846 6020A SW-846 7470A	
1273941	13B0120-12	Ground Water		CTDEP ETPH SW-846 8260C SW-846 8270D	
1273941 uf	13B0120-13	Ground Water		SW-846 6020A SW-846 7470A	



#### CASE NARRATIVE SUMMARY

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

For method 6020, only RCRA 8 metals, Cu, Ni and Zn results were requested and reported.

#### SW-846 8260C

All water reporting limits specified on the chain-of-custody were met except for Acrylonitrile, where the most protective criteria are not met since the laboratory cannot achieve the required RCP calibration criteria at these levels, unless otherwise listed in this narrative.

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

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

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

Daren J. Damboragian  
Laboratory Manager



Project Location: Mystic CT

Sample Description:

Work Order: 13B0120

Date Received: 2/4/2013

Field Sample #: 1273939

Sample ID: 13B0120-01

Start Date/Time: 2/4/2013 10:55:00AM

Sample Matrix: Ground Water

Stop Date/Time: 2/4/2013 12:10:00PM

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	5.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 17:29	EEH
Acrylonitrile	ND	2.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 17:29	EEH
Benzene	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 17:29	EEH
Bromobenzene	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 17:29	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 17:29	EEH
Bromoform	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 17:29	EEH
Bromomethane	ND	5.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 17:29	EEH
2-Butanone (MEK)	ND	5.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 17:29	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 17:29	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 17:29	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 17:29	EEH
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 17:29	EEH
Carbon Tetrachloride	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 17:29	EEH
Chlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 17:29	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 17:29	EEH
Chloroethane	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 17:29	EEH
Chloroform	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 17:29	EEH
Chloromethane	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 17:29	EEH
2-Chlorotoluene	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 17:29	EEH
4-Chlorotoluene	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 17:29	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 17:29	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 17:29	EEH
Dibromomethane	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 17:29	EEH
1,2-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 17:29	EEH
1,3-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 17:29	EEH
1,4-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 17:29	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 17:29	EEH
Dichlorodifluoromethane (Freon 12)	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 17:29	EEH
1,1-Dichloroethane	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 17:29	EEH
1,2-Dichloroethane	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 17:29	EEH
1,1-Dichloroethylene	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 17:29	EEH
cis-1,2-Dichloroethylene	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 17:29	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 17:29	EEH
1,2-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 17:29	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 17:29	EEH
2,2-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 17:29	EEH
1,1-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 17:29	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 17:29	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 17:29	EEH
Ethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 17:29	EEH
Hexachlorobutadiene	ND	0.40	µg/L	1		SW-846 8260C	2/5/13	2/5/13 17:29	EEH
2-Hexanone (MBK)	ND	5.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 17:29	EEH
Isopropylbenzene (Cumene)	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 17:29	EEH
p-Isopropyltoluene (p-Cymene)	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 17:29	EEH



Project Location: Mystic CT

Sample Description:

Work Order: 13B0120

Date Received: 2/4/2013

Field Sample #: 1273939

Sample ID: 13B0120-01

Start Date/Time: 2/4/2013 10:55:00AM

Sample Matrix: Ground Water

Stop Date/Time: 2/4/2013 12:10:00PM

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 17:29	EEH
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 17:29	EEH
4-Methyl-2-pentanone (MIBK)	ND	5.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 17:29	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 17:29	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 17:29	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 17:29	EEH
1,1,1,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 17:29	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 17:29	EEH
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 17:29	EEH
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	2/5/13	2/5/13 17:29	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 17:29	EEH
1,2,3-Trichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 17:29	EEH
1,2,4-Trichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 17:29	EEH
1,1,1-Trichloroethane	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 17:29	EEH
1,1,2-Trichloroethane	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 17:29	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 17:29	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 17:29	EEH
1,2,3-Trichloropropane	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 17:29	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 17:29	EEH
1,2,4-Trimethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 17:29	EEH
1,3,5-Trimethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 17:29	EEH
Vinyl Chloride	ND	1.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 17:29	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 17:29	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 17:29	EEH
Surrogates	% Recovery	Recovery Limits	Flag						
1,2-Dichloroethane-d4	98.0	70-130							
Toluene-d8	100	70-130							
4-Bromofluorobenzene	100	70-130							



Project Location: Mystic CT

Sample Description:

Work Order: 13B0120

Date Received: 2/4/2013

Field Sample #: 1273939

Sample ID: 13B0120-01

Start Date/Time: 2/4/2013 10:55:00AM

Sample Matrix: Ground Water

Stop Date/Time: 2/4/2013 12:10:00PM

## Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene (low)	ND	0.30	µg/L	1		SW-846 8270D	2/5/13	2/6/13 14:36	CJM
Acenaphthylene (low)	ND	0.30	µg/L	1		SW-846 8270D	2/5/13	2/6/13 14:36	CJM
Anthracene (low)	ND	0.20	µg/L	1		SW-846 8270D	2/5/13	2/6/13 14:36	CJM
Benzo(a)anthracene (low)	ND	0.050	µg/L	1		SW-846 8270D	2/5/13	2/6/13 14:36	CJM
Benzo(a)pyrene (low)	ND	0.10	µg/L	1		SW-846 8270D	2/5/13	2/6/13 14:36	CJM
Benzo(b)fluoranthene (low)	ND	0.050	µg/L	1		SW-846 8270D	2/5/13	2/6/13 14:36	CJM
Benzo(g,h,i)perylene (low)	ND	0.50	µg/L	1		SW-846 8270D	2/5/13	2/6/13 14:36	CJM
Benzo(k)fluoranthene (low)	ND	0.20	µg/L	1		SW-846 8270D	2/5/13	2/6/13 14:36	CJM
Chrysene (low)	ND	0.20	µg/L	1		SW-846 8270D	2/5/13	2/6/13 14:36	CJM
Dibenz(a,h)anthracene (low)	ND	0.20	µg/L	1		SW-846 8270D	2/5/13	2/6/13 14:36	CJM
Fluoranthene (low)	ND	0.50	µg/L	1		SW-846 8270D	2/5/13	2/6/13 14:36	CJM
Fluorene (low)	ND	1.0	µg/L	1		SW-846 8270D	2/5/13	2/6/13 14:36	CJM
Indeno(1,2,3-cd)pyrene (low)	ND	0.20	µg/L	1		SW-846 8270D	2/5/13	2/6/13 14:36	CJM
2-Methylnaphthalene (low)	ND	1.0	µg/L	1		SW-846 8270D	2/5/13	2/6/13 14:36	CJM
Naphthalene (low)	ND	1.0	µg/L	1		SW-846 8270D	2/5/13	2/6/13 14:36	CJM
Phenanthrene (low)	ND	0.050	µg/L	1		SW-846 8270D	2/5/13	2/6/13 14:36	CJM
Pyrene (low)	ND	1.0	µg/L	1		SW-846 8270D	2/5/13	2/6/13 14:36	CJM
Surrogates	% Recovery	Recovery Limits	Flag						
Nitrobenzene-d5 (low)	64.2	30-130							
2-Fluorobiphenyl (low)	63.1	30-130							
Terphenyl-d14 (low)	59.9	30-130							



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

Project Location: Mystic CT

Sample Description:

Work Order: 13B0120

Date Received: 2/4/2013

Field Sample #: 1273939

Sample ID: 13B0120-01

Start Date/Time: 2/4/2013 10:55:00AM

Sample Matrix: Ground Water

Stop Date/Time: 2/4/2013 12:10:00PM

**Petroleum Hydrocarbons Analyses**

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	ND	0.075	mg/L	1		CTDEP ETPH	2/6/13	2/7/13 12:25	SCS
Surrogates	% Recovery		Recovery Limits		Flag				
o-Terphenyl	78.0		50-150			2/7/13 12:25			



Project Location: Mystic CT

Sample Description:

Work Order: 13B0120

Date Received: 2/4/2013

Field Sample #: 1273939 uf

Sample ID: 13B0120-02

Start Date/Time: 2/4/2013 10:55:00AM

Sample Matrix: Ground Water

Stop Date/Time: 2/4/2013 12:10:00PM

**Metals Analyses (Total)**

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	2.0	µg/L	5		SW-846 6020A	2/5/13	2/6/13 11:32	KSH
Barium	ND	50	µg/L	5		SW-846 6020A	2/5/13	2/6/13 11:32	KSH
Cadmium	ND	2.5	µg/L	5		SW-846 6020A	2/5/13	2/6/13 11:32	KSH
Chromium	ND	5.0	µg/L	5		SW-846 6020A	2/5/13	2/6/13 11:32	KSH
Copper	ND	25	µg/L	5		SW-846 6020A	2/5/13	2/6/13 11:32	KSH
Lead	ND	5.0	µg/L	5		SW-846 6020A	2/5/13	2/6/13 11:32	KSH
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	2/5/13	2/6/13 11:51	SAJ
Nickel	ND	25	µg/L	5		SW-846 6020A	2/5/13	2/6/13 11:32	KSH
Selenium	ND	25	µg/L	5		SW-846 6020A	2/5/13	2/6/13 11:32	KSH
Silver	ND	2.5	µg/L	5		SW-846 6020A	2/5/13	2/6/13 11:32	KSH
Zinc	ND	50	µg/L	5		SW-846 6020A	2/5/13	2/6/13 11:32	KSH



Project Location: Mystic CT

Sample Description:

Work Order: 13B0120

Date Received: 2/4/2013

Field Sample #: 1273942

Sample ID: 13B0120-03

Start Date/Time: 2/4/2013 10:55:00AM

Sample Matrix: Ground Water

Stop Date/Time: 2/4/2013 12:10:00PM

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	5.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 17:55	EEH
Acrylonitrile	ND	2.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 17:55	EEH
Benzene	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 17:55	EEH
Bromobenzene	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 17:55	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 17:55	EEH
Bromoform	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 17:55	EEH
Bromomethane	ND	5.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 17:55	EEH
2-Butanone (MEK)	ND	5.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 17:55	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 17:55	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 17:55	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 17:55	EEH
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 17:55	EEH
Carbon Tetrachloride	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 17:55	EEH
Chlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 17:55	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 17:55	EEH
Chloroethane	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 17:55	EEH
Chloroform	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 17:55	EEH
Chloromethane	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 17:55	EEH
2-Chlorotoluene	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 17:55	EEH
4-Chlorotoluene	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 17:55	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 17:55	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 17:55	EEH
Dibromomethane	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 17:55	EEH
1,2-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 17:55	EEH
1,3-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 17:55	EEH
1,4-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 17:55	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 17:55	EEH
Dichlorodifluoromethane (Freon 12)	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 17:55	EEH
1,1-Dichloroethane	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 17:55	EEH
1,2-Dichloroethane	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 17:55	EEH
1,1-Dichloroethylene	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 17:55	EEH
cis-1,2-Dichloroethylene	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 17:55	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 17:55	EEH
1,2-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 17:55	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 17:55	EEH
2,2-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 17:55	EEH
1,1-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 17:55	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 17:55	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 17:55	EEH
Ethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 17:55	EEH
Hexachlorobutadiene	ND	0.40	µg/L	1		SW-846 8260C	2/5/13	2/5/13 17:55	EEH
2-Hexanone (MBK)	ND	5.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 17:55	EEH
Isopropylbenzene (Cumene)	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 17:55	EEH
p-Isopropyltoluene (p-Cymene)	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 17:55	EEH



Project Location: Mystic CT

Sample Description:

Work Order: 13B0120

Date Received: 2/4/2013

Field Sample #: 1273942

Sample ID: 13B0120-03

Start Date/Time: 2/4/2013 10:55:00AM

Sample Matrix: Ground Water

Stop Date/Time: 2/4/2013 12:10:00PM

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 17:55	EEH
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 17:55	EEH
4-Methyl-2-pentanone (MIBK)	ND	5.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 17:55	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 17:55	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 17:55	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 17:55	EEH
1,1,1,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 17:55	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 17:55	EEH
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 17:55	EEH
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	2/5/13	2/5/13 17:55	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 17:55	EEH
1,2,3-Trichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 17:55	EEH
1,2,4-Trichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 17:55	EEH
1,1,1-Trichloroethane	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 17:55	EEH
1,1,2-Trichloroethane	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 17:55	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 17:55	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 17:55	EEH
1,2,3-Trichloropropane	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 17:55	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 17:55	EEH
1,2,4-Trimethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 17:55	EEH
1,3,5-Trimethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 17:55	EEH
Vinyl Chloride	ND	1.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 17:55	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 17:55	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 17:55	EEH
Surrogates	% Recovery	Recovery Limits	Flag						
1,2-Dichloroethane-d4	98.9	70-130							
Toluene-d8	99.8	70-130							
4-Bromofluorobenzene	104	70-130							



Project Location: Mystic CT

Sample Description:

Work Order: 13B0120

Date Received: 2/4/2013

Field Sample #: 1273942

Sample ID: 13B0120-03

Start Date/Time: 2/4/2013 10:55:00AM

Sample Matrix: Ground Water

Stop Date/Time: 2/4/2013 12:10:00PM

## Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene (low)	ND	0.30	µg/L	1		SW-846 8270D	2/5/13	2/6/13 15:06	CJM
Acenaphthylene (low)	ND	0.30	µg/L	1		SW-846 8270D	2/5/13	2/6/13 15:06	CJM
Anthracene (low)	ND	0.20	µg/L	1		SW-846 8270D	2/5/13	2/6/13 15:06	CJM
Benzo(a)anthracene (low)	ND	0.050	µg/L	1		SW-846 8270D	2/5/13	2/6/13 15:06	CJM
Benzo(a)pyrene (low)	ND	0.10	µg/L	1		SW-846 8270D	2/5/13	2/6/13 15:06	CJM
Benzo(b)fluoranthene (low)	ND	0.050	µg/L	1		SW-846 8270D	2/5/13	2/6/13 15:06	CJM
Benzo(g,h,i)perylene (low)	ND	0.50	µg/L	1		SW-846 8270D	2/5/13	2/6/13 15:06	CJM
Benzo(k)fluoranthene (low)	ND	0.20	µg/L	1		SW-846 8270D	2/5/13	2/6/13 15:06	CJM
Chrysene (low)	ND	0.20	µg/L	1		SW-846 8270D	2/5/13	2/6/13 15:06	CJM
Dibenz(a,h)anthracene (low)	ND	0.20	µg/L	1		SW-846 8270D	2/5/13	2/6/13 15:06	CJM
Fluoranthene (low)	ND	0.50	µg/L	1		SW-846 8270D	2/5/13	2/6/13 15:06	CJM
Fluorene (low)	ND	1.0	µg/L	1		SW-846 8270D	2/5/13	2/6/13 15:06	CJM
Indeno(1,2,3-cd)pyrene (low)	ND	0.20	µg/L	1		SW-846 8270D	2/5/13	2/6/13 15:06	CJM
2-Methylnaphthalene (low)	ND	1.0	µg/L	1		SW-846 8270D	2/5/13	2/6/13 15:06	CJM
Naphthalene (low)	ND	1.0	µg/L	1		SW-846 8270D	2/5/13	2/6/13 15:06	CJM
Phenanthrene (low)	ND	0.050	µg/L	1		SW-846 8270D	2/5/13	2/6/13 15:06	CJM
Pyrene (low)	ND	1.0	µg/L	1		SW-846 8270D	2/5/13	2/6/13 15:06	CJM
Surrogates	% Recovery	Recovery Limits	Flag						
Nitrobenzene-d5 (low)	70.4	30-130							
2-Fluorobiphenyl (low)	63.5	30-130							
Terphenyl-d14 (low)	57.4	30-130							



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Project Location: Mystic CT

Sample Description:

Work Order: 13B0120

Date Received: 2/4/2013

Field Sample #: 1273942

Sample ID: 13B0120-03

Start Date/Time: 2/4/2013 10:55:00AM

Sample Matrix: Ground Water

Stop Date/Time: 2/4/2013 12:10:00PM

**Petroleum Hydrocarbons Analyses**

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	ND	0.075	mg/L	1		CTDEP ETPH	2/6/13	2/7/13 11:22	SCS
Surrogates	% Recovery		Recovery Limits		Flag				
o-Terphenyl	85.1		50-150			2/7/13 11:22			



Project Location: Mystic CT

Sample Description:

Work Order: 13B0120

Date Received: 2/4/2013

Field Sample #: 1273942 uf

Sample ID: 13B0120-04

Start Date/Time: 2/4/2013 10:55:00AM

Sample Matrix: Ground Water

Stop Date/Time: 2/4/2013 12:10:00PM

**Metals Analyses (Total)**

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	2.0	µg/L	5		SW-846 6020A	2/5/13	2/6/13 12:55	KSH
Barium	ND	50	µg/L	5		SW-846 6020A	2/5/13	2/6/13 12:55	KSH
Cadmium	ND	2.5	µg/L	5		SW-846 6020A	2/5/13	2/6/13 12:55	KSH
Chromium	ND	5.0	µg/L	5		SW-846 6020A	2/5/13	2/6/13 12:55	KSH
Copper	ND	25	µg/L	5		SW-846 6020A	2/5/13	2/6/13 12:55	KSH
Lead	ND	5.0	µg/L	5		SW-846 6020A	2/5/13	2/6/13 12:55	KSH
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	2/5/13	2/6/13 11:53	SAJ
Nickel	ND	25	µg/L	5		SW-846 6020A	2/5/13	2/6/13 12:55	KSH
Selenium	ND	25	µg/L	5		SW-846 6020A	2/5/13	2/6/13 12:55	KSH
Silver	ND	2.5	µg/L	5		SW-846 6020A	2/5/13	2/6/13 12:55	KSH
Zinc	ND	50	µg/L	5		SW-846 6020A	2/5/13	2/6/13 12:55	KSH



Project Location: Mystic CT

Sample Description:

Work Order: 13B0120

Date Received: 2/4/2013

Field Sample #: 1273943

Sampled: 2/4/2013 12:30

Sample ID: 13B0120-05

Sample Matrix: Ground Water

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	5.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 18:21	EEH
Acrylonitrile	ND	2.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 18:21	EEH
Benzene	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 18:21	EEH
Bromobenzene	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 18:21	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 18:21	EEH
Bromoform	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 18:21	EEH
Bromomethane	ND	5.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 18:21	EEH
2-Butanone (MEK)	ND	5.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 18:21	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 18:21	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 18:21	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 18:21	EEH
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 18:21	EEH
Carbon Tetrachloride	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 18:21	EEH
Chlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 18:21	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 18:21	EEH
Chloroethane	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 18:21	EEH
Chloroform	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 18:21	EEH
Chloromethane	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 18:21	EEH
2-Chlorotoluene	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 18:21	EEH
4-Chlorotoluene	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 18:21	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 18:21	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 18:21	EEH
Dibromomethane	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 18:21	EEH
1,2-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 18:21	EEH
1,3-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 18:21	EEH
1,4-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 18:21	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 18:21	EEH
Dichlorodifluoromethane (Freon 12)	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 18:21	EEH
1,1-Dichloroethane	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 18:21	EEH
1,2-Dichloroethane	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 18:21	EEH
1,1-Dichloroethylene	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 18:21	EEH
cis-1,2-Dichloroethylene	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 18:21	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 18:21	EEH
1,2-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 18:21	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 18:21	EEH
2,2-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 18:21	EEH
1,1-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 18:21	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 18:21	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 18:21	EEH
Ethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 18:21	EEH
Hexachlorobutadiene	ND	0.40	µg/L	1		SW-846 8260C	2/5/13	2/5/13 18:21	EEH
2-Hexanone (MBK)	ND	5.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 18:21	EEH
Isopropylbenzene (Cumene)	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 18:21	EEH
p-Isopropyltoluene (p-Cymene)	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 18:21	EEH



Project Location: Mystic CT

Sample Description:

Work Order: 13B0120

Date Received: 2/4/2013

Field Sample #: 1273943

Sampled: 2/4/2013 12:30

Sample ID: 13B0120-05

Sample Matrix: Ground Water

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 18:21	EEH
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 18:21	EEH
4-Methyl-2-pentanone (MIBK)	ND	5.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 18:21	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 18:21	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 18:21	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 18:21	EEH
1,1,1,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 18:21	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 18:21	EEH
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 18:21	EEH
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	2/5/13	2/5/13 18:21	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 18:21	EEH
1,2,3-Trichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 18:21	EEH
1,2,4-Trichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 18:21	EEH
1,1,1-Trichloroethane	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 18:21	EEH
1,1,2-Trichloroethane	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 18:21	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 18:21	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 18:21	EEH
1,2,3-Trichloropropane	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 18:21	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 18:21	EEH
1,2,4-Trimethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 18:21	EEH
1,3,5-Trimethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 18:21	EEH
Vinyl Chloride	ND	1.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 18:21	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 18:21	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 18:21	EEH
Surrogates	% Recovery	Recovery Limits	Flag						
1,2-Dichloroethane-d4	101	70-130							
Toluene-d8	100	70-130							
4-Bromofluorobenzene	98.8	70-130							



Project Location: Mystic CT

Sample Description:

Work Order: 13B0120

Date Received: 2/4/2013

Field Sample #: 1273943

Sampled: 2/4/2013 12:30

Sample ID: 13B0120-05

Sample Matrix: Ground Water

## Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene (low)	ND	0.30	µg/L	1		SW-846 8270D	2/5/13	2/6/13 15:36	CJM
Acenaphthylene (low)	ND	0.30	µg/L	1		SW-846 8270D	2/5/13	2/6/13 15:36	CJM
Anthracene (low)	ND	0.20	µg/L	1		SW-846 8270D	2/5/13	2/6/13 15:36	CJM
Benzo(a)anthracene (low)	ND	0.050	µg/L	1		SW-846 8270D	2/5/13	2/6/13 15:36	CJM
Benzo(a)pyrene (low)	ND	0.10	µg/L	1		SW-846 8270D	2/5/13	2/6/13 15:36	CJM
Benzo(b)fluoranthene (low)	ND	0.050	µg/L	1		SW-846 8270D	2/5/13	2/6/13 15:36	CJM
Benzo(g,h,i)perylene (low)	ND	0.50	µg/L	1		SW-846 8270D	2/5/13	2/6/13 15:36	CJM
Benzo(k)fluoranthene (low)	ND	0.20	µg/L	1		SW-846 8270D	2/5/13	2/6/13 15:36	CJM
Chrysene (low)	ND	0.20	µg/L	1		SW-846 8270D	2/5/13	2/6/13 15:36	CJM
Dibenz(a,h)anthracene (low)	ND	0.20	µg/L	1		SW-846 8270D	2/5/13	2/6/13 15:36	CJM
Fluoranthene (low)	ND	0.50	µg/L	1		SW-846 8270D	2/5/13	2/6/13 15:36	CJM
Fluorene (low)	ND	1.0	µg/L	1		SW-846 8270D	2/5/13	2/6/13 15:36	CJM
Indeno(1,2,3-cd)pyrene (low)	ND	0.20	µg/L	1		SW-846 8270D	2/5/13	2/6/13 15:36	CJM
2-Methylnaphthalene (low)	ND	1.0	µg/L	1		SW-846 8270D	2/5/13	2/6/13 15:36	CJM
Naphthalene (low)	ND	1.0	µg/L	1		SW-846 8270D	2/5/13	2/6/13 15:36	CJM
Phenanthrene (low)	ND	0.050	µg/L	1		SW-846 8270D	2/5/13	2/6/13 15:36	CJM
Pyrene (low)	ND	1.0	µg/L	1		SW-846 8270D	2/5/13	2/6/13 15:36	CJM
Surrogates	% Recovery	Recovery Limits	Flag						
Nitrobenzene-d5 (low)	74.6	30-130							
2-Fluorobiphenyl (low)	68.7	30-130							
Terphenyl-d14 (low)	71.4	30-130							



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Project Location: Mystic CT

Sample Description:

Work Order: 13B0120

Date Received: 2/4/2013

Field Sample #: 1273943

Sampled: 2/4/2013 12:30

Sample ID: 13B0120-05

Sample Matrix: Ground Water

**Petroleum Hydrocarbons Analyses**

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	0.28	0.075	mg/L	1		CTDEP ETPH	2/6/13	2/7/13 11:38	SCS
Surrogates	% Recovery		Recovery Limits		Flag				
o-Terphenyl	84.8		50-150			2/7/13 11:38			



Project Location: Mystic CT

Sample Description:

Work Order: 13B0120

Date Received: 2/4/2013

Field Sample #: 1273943 uf

Sampled: 2/4/2013 12:30

Sample ID: 13B0120-06

Sample Matrix: Ground Water

#### Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	2.0	µg/L	5		SW-846 6020A	2/5/13	2/6/13 12:58	KSH
Barium	ND	50	µg/L	5		SW-846 6020A	2/5/13	2/6/13 12:58	KSH
Cadmium	ND	2.5	µg/L	5		SW-846 6020A	2/5/13	2/6/13 12:58	KSH
Chromium	ND	5.0	µg/L	5		SW-846 6020A	2/5/13	2/6/13 12:58	KSH
Copper	150	25	µg/L	5		SW-846 6020A	2/5/13	2/6/13 12:58	KSH
Lead	12	5.0	µg/L	5		SW-846 6020A	2/5/13	2/6/13 12:58	KSH
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	2/5/13	2/6/13 11:55	SAJ
Nickel	ND	25	µg/L	5		SW-846 6020A	2/5/13	2/6/13 12:58	KSH
Selenium	ND	25	µg/L	5		SW-846 6020A	2/5/13	2/6/13 12:58	KSH
Silver	ND	2.5	µg/L	5		SW-846 6020A	2/5/13	2/6/13 12:58	KSH
Zinc	54	50	µg/L	5		SW-846 6020A	2/5/13	2/6/13 12:58	KSH



Project Location: Mystic CT

Sample Description:

Work Order: 13B0120

Date Received: 2/4/2013

Field Sample #: 1273946

Sampled: 2/4/2013 13:30

Sample ID: 13B0120-07

Sample Matrix: Ground Water

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	5.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 18:48	EEH
Acrylonitrile	ND	2.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 18:48	EEH
Benzene	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 18:48	EEH
Bromobenzene	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 18:48	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 18:48	EEH
Bromoform	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 18:48	EEH
Bromomethane	ND	5.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 18:48	EEH
2-Butanone (MEK)	ND	5.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 18:48	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 18:48	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 18:48	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 18:48	EEH
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 18:48	EEH
Carbon Tetrachloride	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 18:48	EEH
Chlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 18:48	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 18:48	EEH
Chloroethane	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 18:48	EEH
Chloroform	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 18:48	EEH
Chloromethane	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 18:48	EEH
2-Chlorotoluene	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 18:48	EEH
4-Chlorotoluene	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 18:48	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 18:48	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 18:48	EEH
Dibromomethane	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 18:48	EEH
1,2-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 18:48	EEH
1,3-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 18:48	EEH
1,4-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 18:48	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 18:48	EEH
Dichlorodifluoromethane (Freon 12)	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 18:48	EEH
1,1-Dichloroethane	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 18:48	EEH
1,2-Dichloroethane	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 18:48	EEH
1,1-Dichloroethylene	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 18:48	EEH
cis-1,2-Dichloroethylene	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 18:48	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 18:48	EEH
1,2-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 18:48	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 18:48	EEH
2,2-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 18:48	EEH
1,1-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 18:48	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 18:48	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 18:48	EEH
Ethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 18:48	EEH
Hexachlorobutadiene	ND	0.40	µg/L	1		SW-846 8260C	2/5/13	2/5/13 18:48	EEH
2-Hexanone (MBK)	ND	5.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 18:48	EEH
Isopropylbenzene (Cumene)	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 18:48	EEH
p-Isopropyltoluene (p-Cymene)	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 18:48	EEH



Project Location: Mystic CT

Sample Description:

Work Order: 13B0120

Date Received: 2/4/2013

Field Sample #: 1273946

Sampled: 2/4/2013 13:30

Sample ID: 13B0120-07

Sample Matrix: Ground Water

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 18:48	EEH
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 18:48	EEH
4-Methyl-2-pentanone (MIBK)	ND	5.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 18:48	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 18:48	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 18:48	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 18:48	EEH
1,1,1,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 18:48	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 18:48	EEH
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 18:48	EEH
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	2/5/13	2/5/13 18:48	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 18:48	EEH
1,2,3-Trichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 18:48	EEH
1,2,4-Trichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 18:48	EEH
1,1,1-Trichloroethane	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 18:48	EEH
1,1,2-Trichloroethane	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 18:48	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 18:48	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 18:48	EEH
1,2,3-Trichloropropane	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 18:48	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 18:48	EEH
1,2,4-Trimethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 18:48	EEH
1,3,5-Trimethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 18:48	EEH
Vinyl Chloride	ND	1.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 18:48	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 18:48	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 18:48	EEH
Surrogates	% Recovery	Recovery Limits	Flag						
1,2-Dichloroethane-d4	102	70-130							
Toluene-d8	100	70-130							
4-Bromofluorobenzene	102	70-130							



Project Location: Mystic CT

Sample Description:

Work Order: 13B0120

Date Received: 2/4/2013

Field Sample #: 1273946

Sampled: 2/4/2013 13:30

Sample ID: 13B0120-07

Sample Matrix: Ground Water

## Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene (low)	ND	0.30	µg/L	1		SW-846 8270D	2/5/13	2/6/13 16:07	CJM
Acenaphthylene (low)	ND	0.30	µg/L	1		SW-846 8270D	2/5/13	2/6/13 16:07	CJM
Anthracene (low)	ND	0.20	µg/L	1		SW-846 8270D	2/5/13	2/6/13 16:07	CJM
Benzo(a)anthracene (low)	ND	0.050	µg/L	1		SW-846 8270D	2/5/13	2/6/13 16:07	CJM
Benzo(a)pyrene (low)	ND	0.10	µg/L	1		SW-846 8270D	2/5/13	2/6/13 16:07	CJM
Benzo(b)fluoranthene (low)	ND	0.050	µg/L	1		SW-846 8270D	2/5/13	2/6/13 16:07	CJM
Benzo(g,h,i)perylene (low)	ND	0.50	µg/L	1		SW-846 8270D	2/5/13	2/6/13 16:07	CJM
Benzo(k)fluoranthene (low)	ND	0.20	µg/L	1		SW-846 8270D	2/5/13	2/6/13 16:07	CJM
Chrysene (low)	ND	0.20	µg/L	1		SW-846 8270D	2/5/13	2/6/13 16:07	CJM
Dibenz(a,h)anthracene (low)	ND	0.20	µg/L	1		SW-846 8270D	2/5/13	2/6/13 16:07	CJM
Fluoranthene (low)	ND	0.50	µg/L	1		SW-846 8270D	2/5/13	2/6/13 16:07	CJM
Fluorene (low)	ND	1.0	µg/L	1		SW-846 8270D	2/5/13	2/6/13 16:07	CJM
Indeno(1,2,3-cd)pyrene (low)	ND	0.20	µg/L	1		SW-846 8270D	2/5/13	2/6/13 16:07	CJM
2-Methylnaphthalene (low)	ND	1.0	µg/L	1		SW-846 8270D	2/5/13	2/6/13 16:07	CJM
Naphthalene (low)	ND	1.0	µg/L	1		SW-846 8270D	2/5/13	2/6/13 16:07	CJM
Phenanthrene (low)	ND	0.050	µg/L	1		SW-846 8270D	2/5/13	2/6/13 16:07	CJM
Pyrene (low)	ND	1.0	µg/L	1		SW-846 8270D	2/5/13	2/6/13 16:07	CJM
Surrogates	% Recovery	Recovery Limits	Flag						
Nitrobenzene-d5 (low)	70.7	30-130							
2-Fluorobiphenyl (low)	66.9	30-130							
Terphenyl-d14 (low)	73.6	30-130							



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

Project Location: Mystic CT

Sample Description:

Work Order: 13B0120

Date Received: 2/4/2013

Field Sample #: 1273946

Sampled: 2/4/2013 13:30

Sample ID: 13B0120-07

Sample Matrix: Ground Water

**Petroleum Hydrocarbons Analyses**

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	ND	0.075	mg/L	1		CTDEP ETPH	2/6/13	2/7/13 11:53	SCS
Surrogates	% Recovery		Recovery Limits		Flag				
o-Terphenyl	82.8		50-150			2/7/13 11:53			



Project Location: Mystic CT

Sample Description:

Work Order: 13B0120

Date Received: 2/4/2013

Field Sample #: 1273946 uf

Sampled: 2/4/2013 13:30

Sample ID: 13B0120-08

Sample Matrix: Ground Water

#### Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	2.0	µg/L	5		SW-846 6020A	2/5/13	2/6/13 13:02	KSH
Barium	ND	50	µg/L	5		SW-846 6020A	2/5/13	2/6/13 13:02	KSH
Cadmium	ND	2.5	µg/L	5		SW-846 6020A	2/5/13	2/6/13 13:02	KSH
Chromium	ND	5.0	µg/L	5		SW-846 6020A	2/5/13	2/6/13 13:02	KSH
Copper	ND	25	µg/L	5		SW-846 6020A	2/5/13	2/6/13 13:02	KSH
Lead	ND	5.0	µg/L	5		SW-846 6020A	2/5/13	2/6/13 13:02	KSH
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	2/5/13	2/6/13 11:56	SAJ
Nickel	ND	25	µg/L	5		SW-846 6020A	2/5/13	2/6/13 13:02	KSH
Selenium	ND	25	µg/L	5		SW-846 6020A	2/5/13	2/6/13 13:02	KSH
Silver	ND	2.5	µg/L	5		SW-846 6020A	2/5/13	2/6/13 13:02	KSH
Zinc	ND	50	µg/L	5		SW-846 6020A	2/5/13	2/6/13 13:02	KSH



Project Location: Mystic CT

Sample Description:

Work Order: 13B0120

Date Received: 2/4/2013

Field Sample #: 1273947

Sampled: 2/4/2013 09:30

Sample ID: 13B0120-09

Sample Matrix: Trip Blank Water

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	5.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 19:14	EEH
Acrylonitrile	ND	2.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 19:14	EEH
Benzene	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 19:14	EEH
Bromobenzene	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 19:14	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 19:14	EEH
Bromoform	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 19:14	EEH
Bromomethane	ND	5.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 19:14	EEH
2-Butanone (MEK)	ND	5.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 19:14	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 19:14	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 19:14	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 19:14	EEH
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 19:14	EEH
Carbon Tetrachloride	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 19:14	EEH
Chlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 19:14	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 19:14	EEH
Chloroethane	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 19:14	EEH
Chloroform	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 19:14	EEH
Chloromethane	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 19:14	EEH
2-Chlorotoluene	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 19:14	EEH
4-Chlorotoluene	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 19:14	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 19:14	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 19:14	EEH
Dibromomethane	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 19:14	EEH
1,2-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 19:14	EEH
1,3-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 19:14	EEH
1,4-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 19:14	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 19:14	EEH
Dichlorodifluoromethane (Freon 12)	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 19:14	EEH
1,1-Dichloroethane	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 19:14	EEH
1,2-Dichloroethane	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 19:14	EEH
1,1-Dichloroethylene	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 19:14	EEH
cis-1,2-Dichloroethylene	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 19:14	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 19:14	EEH
1,2-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 19:14	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 19:14	EEH
2,2-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 19:14	EEH
1,1-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 19:14	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 19:14	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 19:14	EEH
Ethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 19:14	EEH
Hexachlorobutadiene	ND	0.40	µg/L	1		SW-846 8260C	2/5/13	2/5/13 19:14	EEH
2-Hexanone (MBK)	ND	5.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 19:14	EEH
Isopropylbenzene (Cumene)	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 19:14	EEH
p-Isopropyltoluene (p-Cymene)	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 19:14	EEH



Project Location: Mystic CT

Sample Description:

Work Order: 13B0120

Date Received: 2/4/2013

Field Sample #: 1273947

Sampled: 2/4/2013 09:30

Sample ID: 13B0120-09

Sample Matrix: Trip Blank Water

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 19:14	EEH
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 19:14	EEH
4-Methyl-2-pentanone (MIBK)	ND	5.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 19:14	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 19:14	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 19:14	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 19:14	EEH
1,1,1,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 19:14	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 19:14	EEH
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 19:14	EEH
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	2/5/13	2/5/13 19:14	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 19:14	EEH
1,2,3-Trichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 19:14	EEH
1,2,4-Trichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 19:14	EEH
1,1,1-Trichloroethane	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 19:14	EEH
1,1,2-Trichloroethane	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 19:14	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 19:14	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 19:14	EEH
1,2,3-Trichloropropane	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 19:14	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 19:14	EEH
1,2,4-Trimethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 19:14	EEH
1,3,5-Trimethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 19:14	EEH
Vinyl Chloride	ND	1.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 19:14	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 19:14	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 19:14	EEH
Surrogates	% Recovery	Recovery Limits	Flag						
1,2-Dichloroethane-d4	103	70-130							
Toluene-d8	103	70-130							
4-Bromofluorobenzene	104	70-130							



Project Location: Mystic CT

Sample Description:

Work Order: 13B0120

Date Received: 2/4/2013

Field Sample #: 1273940

Sample ID: 13B0120-10

Start Date/Time: 2/4/2013 2:00:00PM

Sample Matrix: Ground Water

Stop Date/Time: 2/4/2013 2:45:00PM

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	5.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 19:40	EEH
Acrylonitrile	ND	2.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 19:40	EEH
Benzene	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 19:40	EEH
Bromobenzene	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 19:40	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 19:40	EEH
Bromoform	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 19:40	EEH
Bromomethane	ND	5.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 19:40	EEH
2-Butanone (MEK)	ND	5.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 19:40	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 19:40	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 19:40	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 19:40	EEH
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 19:40	EEH
Carbon Tetrachloride	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 19:40	EEH
Chlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 19:40	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 19:40	EEH
Chloroethane	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 19:40	EEH
Chloroform	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 19:40	EEH
Chloromethane	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 19:40	EEH
2-Chlorotoluene	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 19:40	EEH
4-Chlorotoluene	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 19:40	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 19:40	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 19:40	EEH
Dibromomethane	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 19:40	EEH
1,2-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 19:40	EEH
1,3-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 19:40	EEH
1,4-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 19:40	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 19:40	EEH
Dichlorodifluoromethane (Freon 12)	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 19:40	EEH
1,1-Dichloroethane	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 19:40	EEH
1,2-Dichloroethane	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 19:40	EEH
1,1-Dichloroethylene	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 19:40	EEH
cis-1,2-Dichloroethylene	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 19:40	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 19:40	EEH
1,2-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 19:40	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 19:40	EEH
2,2-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 19:40	EEH
1,1-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 19:40	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 19:40	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 19:40	EEH
Ethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 19:40	EEH
Hexachlorobutadiene	ND	0.40	µg/L	1		SW-846 8260C	2/5/13	2/5/13 19:40	EEH
2-Hexanone (MBK)	ND	5.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 19:40	EEH
Isopropylbenzene (Cumene)	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 19:40	EEH
p-Isopropyltoluene (p-Cymene)	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 19:40	EEH



Project Location: Mystic CT

Sample Description:

Work Order: 13B0120

Date Received: 2/4/2013

Field Sample #: 1273940

Sample ID: 13B0120-10

Start Date/Time: 2/4/2013 2:00:00PM

Sample Matrix: Ground Water

Stop Date/Time: 2/4/2013 2:45:00PM

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 19:40	EEH
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 19:40	EEH
4-Methyl-2-pentanone (MIBK)	ND	5.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 19:40	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 19:40	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 19:40	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 19:40	EEH
1,1,1,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 19:40	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 19:40	EEH
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 19:40	EEH
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	2/5/13	2/5/13 19:40	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 19:40	EEH
1,2,3-Trichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 19:40	EEH
1,2,4-Trichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 19:40	EEH
1,1,1-Trichloroethane	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 19:40	EEH
1,1,2-Trichloroethane	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 19:40	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 19:40	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 19:40	EEH
1,2,3-Trichloropropane	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 19:40	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 19:40	EEH
1,2,4-Trimethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 19:40	EEH
1,3,5-Trimethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 19:40	EEH
Vinyl Chloride	ND	1.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 19:40	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 19:40	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 19:40	EEH
Surrogates	% Recovery	Recovery Limits	Flag						
1,2-Dichloroethane-d4	104	70-130							
Toluene-d8	100	70-130							
4-Bromofluorobenzene	105	70-130							



Project Location: Mystic CT

Sample Description:

Work Order: 13B0120

Date Received: 2/4/2013

Field Sample #: 1273940

Sample ID: 13B0120-10

Start Date/Time: 2/4/2013 2:00:00PM

Sample Matrix: Ground Water

Stop Date/Time: 2/4/2013 2:45:00PM

## Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene (low)	ND	0.30	µg/L	1		SW-846 8270D	2/5/13	2/6/13 16:37	CJM
Acenaphthylene (low)	ND	0.30	µg/L	1		SW-846 8270D	2/5/13	2/6/13 16:37	CJM
Anthracene (low)	ND	0.20	µg/L	1		SW-846 8270D	2/5/13	2/6/13 16:37	CJM
Benzo(a)anthracene (low)	ND	0.050	µg/L	1		SW-846 8270D	2/5/13	2/6/13 16:37	CJM
Benzo(a)pyrene (low)	ND	0.10	µg/L	1		SW-846 8270D	2/5/13	2/6/13 16:37	CJM
Benzo(b)fluoranthene (low)	ND	0.050	µg/L	1		SW-846 8270D	2/5/13	2/6/13 16:37	CJM
Benzo(g,h,i)perylene (low)	ND	0.50	µg/L	1		SW-846 8270D	2/5/13	2/6/13 16:37	CJM
Benzo(k)fluoranthene (low)	ND	0.20	µg/L	1		SW-846 8270D	2/5/13	2/6/13 16:37	CJM
Chrysene (low)	ND	0.20	µg/L	1		SW-846 8270D	2/5/13	2/6/13 16:37	CJM
Dibenz(a,h)anthracene (low)	ND	0.20	µg/L	1		SW-846 8270D	2/5/13	2/6/13 16:37	CJM
Fluoranthene (low)	ND	0.50	µg/L	1		SW-846 8270D	2/5/13	2/6/13 16:37	CJM
Fluorene (low)	ND	1.0	µg/L	1		SW-846 8270D	2/5/13	2/6/13 16:37	CJM
Indeno(1,2,3-cd)pyrene (low)	ND	0.20	µg/L	1		SW-846 8270D	2/5/13	2/6/13 16:37	CJM
2-Methylnaphthalene (low)	ND	1.0	µg/L	1		SW-846 8270D	2/5/13	2/6/13 16:37	CJM
Naphthalene (low)	ND	1.0	µg/L	1		SW-846 8270D	2/5/13	2/6/13 16:37	CJM
Phenanthrene (low)	ND	0.050	µg/L	1		SW-846 8270D	2/5/13	2/6/13 16:37	CJM
Pyrene (low)	ND	1.0	µg/L	1		SW-846 8270D	2/5/13	2/6/13 16:37	CJM
Surrogates	% Recovery	Recovery Limits	Flag						
Nitrobenzene-d5 (low)	67.9	30-130							
2-Fluorobiphenyl (low)	61.8	30-130							
Terphenyl-d14 (low)	39.5	30-130							



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

Project Location: Mystic CT

Sample Description:

Work Order: 13B0120

Date Received: 2/4/2013

Field Sample #: 1273940

Sample ID: 13B0120-10

Start Date/Time: 2/4/2013 2:00:00PM

Sample Matrix: Ground Water

Stop Date/Time: 2/4/2013 2:45:00PM

**Petroleum Hydrocarbons Analyses**

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	ND	0.075	mg/L	1		CTDEP ETPH	2/6/13	2/7/13 12:10	SCS
Surrogates	% Recovery		Recovery Limits		Flag				
o-Terphenyl	84.6		50-150			2/7/13 12:10			



Project Location: Mystic CT

Sample Description:

Work Order: 13B0120

Date Received: 2/4/2013

Field Sample #: 1273940 uf

Sample ID: 13B0120-11

Start Date/Time: 2/4/2013 2:00:00PM

Sample Matrix: Ground Water

Stop Date/Time: 2/4/2013 2:45:00PM

**Metals Analyses (Total)**

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	2.0	µg/L	5		SW-846 6020A	2/5/13	2/6/13 13:05	KSH
Barium	ND	50	µg/L	5		SW-846 6020A	2/5/13	2/6/13 13:05	KSH
Cadmium	ND	2.5	µg/L	5		SW-846 6020A	2/5/13	2/6/13 13:05	KSH
Chromium	ND	5.0	µg/L	5		SW-846 6020A	2/5/13	2/6/13 13:05	KSH
Copper	ND	25	µg/L	5		SW-846 6020A	2/5/13	2/6/13 13:05	KSH
Lead	ND	5.0	µg/L	5		SW-846 6020A	2/5/13	2/6/13 13:05	KSH
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	2/5/13	2/6/13 11:58	SAJ
Nickel	ND	25	µg/L	5		SW-846 6020A	2/5/13	2/6/13 13:05	KSH
Selenium	ND	25	µg/L	5		SW-846 6020A	2/5/13	2/6/13 13:05	KSH
Silver	ND	2.5	µg/L	5		SW-846 6020A	2/5/13	2/6/13 13:05	KSH
Zinc	ND	50	µg/L	5		SW-846 6020A	2/5/13	2/6/13 13:05	KSH



Project Location: Mystic CT

Sample Description:

Work Order: 13B0120

Date Received: 2/4/2013

Field Sample #: 1273941

Sample ID: 13B0120-12

Start Date/Time: 2/4/2013 3:45:00PM

Sample Matrix: Ground Water

Stop Date/Time: 2/4/2013 3:53:00PM

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	5.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 20:06	EEH
Acrylonitrile	ND	2.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 20:06	EEH
Benzene	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 20:06	EEH
Bromobenzene	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 20:06	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 20:06	EEH
Bromoform	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 20:06	EEH
Bromomethane	ND	5.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 20:06	EEH
2-Butanone (MEK)	ND	5.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 20:06	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 20:06	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 20:06	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 20:06	EEH
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 20:06	EEH
Carbon Tetrachloride	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 20:06	EEH
Chlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 20:06	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 20:06	EEH
Chloroethane	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 20:06	EEH
Chloroform	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 20:06	EEH
Chloromethane	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 20:06	EEH
2-Chlorotoluene	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 20:06	EEH
4-Chlorotoluene	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 20:06	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 20:06	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 20:06	EEH
Dibromomethane	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 20:06	EEH
1,2-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 20:06	EEH
1,3-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 20:06	EEH
1,4-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 20:06	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 20:06	EEH
Dichlorodifluoromethane (Freon 12)	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 20:06	EEH
1,1-Dichloroethane	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 20:06	EEH
1,2-Dichloroethane	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 20:06	EEH
1,1-Dichloroethylene	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 20:06	EEH
cis-1,2-Dichloroethylene	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 20:06	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 20:06	EEH
1,2-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 20:06	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 20:06	EEH
2,2-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 20:06	EEH
1,1-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 20:06	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 20:06	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 20:06	EEH
Ethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 20:06	EEH
Hexachlorobutadiene	ND	0.40	µg/L	1		SW-846 8260C	2/5/13	2/5/13 20:06	EEH
2-Hexanone (MBK)	ND	5.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 20:06	EEH
Isopropylbenzene (Cumene)	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 20:06	EEH
p-Isopropyltoluene (p-Cymene)	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 20:06	EEH



Project Location: Mystic CT

Sample Description:

Work Order: 13B0120

Date Received: 2/4/2013

Field Sample #: 1273941

Sample ID: 13B0120-12

Start Date/Time: 2/4/2013 3:45:00PM

Sample Matrix: Ground Water

Stop Date/Time: 2/4/2013 3:53:00PM

## Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 20:06	EEH
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 20:06	EEH
4-Methyl-2-pentanone (MIBK)	ND	5.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 20:06	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 20:06	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 20:06	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 20:06	EEH
1,1,1,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 20:06	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 20:06	EEH
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 20:06	EEH
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	2/5/13	2/5/13 20:06	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 20:06	EEH
1,2,3-Trichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 20:06	EEH
1,2,4-Trichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 20:06	EEH
1,1,1-Trichloroethane	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 20:06	EEH
1,1,2-Trichloroethane	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 20:06	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 20:06	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 20:06	EEH
1,2,3-Trichloropropane	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 20:06	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 20:06	EEH
1,2,4-Trimethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 20:06	EEH
1,3,5-Trimethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	2/5/13	2/5/13 20:06	EEH
Vinyl Chloride	ND	1.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 20:06	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 20:06	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	2/5/13	2/5/13 20:06	EEH
Surrogates	% Recovery	Recovery Limits	Flag						
1,2-Dichloroethane-d4	101	70-130							
Toluene-d8	103	70-130							
4-Bromofluorobenzene	101	70-130							



Project Location: Mystic CT

Sample Description:

Work Order: 13B0120

Date Received: 2/4/2013

Field Sample #: 1273941

Sample ID: 13B0120-12

Start Date/Time: 2/4/2013 3:45:00PM

Sample Matrix: Ground Water

Stop Date/Time: 2/4/2013 3:53:00PM

## Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene (low)	ND	0.30	µg/L	1		SW-846 8270D	2/5/13	2/6/13 17:07	CJM
Acenaphthylene (low)	ND	0.30	µg/L	1		SW-846 8270D	2/5/13	2/6/13 17:07	CJM
Anthracene (low)	ND	0.20	µg/L	1		SW-846 8270D	2/5/13	2/6/13 17:07	CJM
Benzo(a)anthracene (low)	ND	0.050	µg/L	1		SW-846 8270D	2/5/13	2/6/13 17:07	CJM
Benzo(a)pyrene (low)	ND	0.10	µg/L	1		SW-846 8270D	2/5/13	2/6/13 17:07	CJM
Benzo(b)fluoranthene (low)	ND	0.050	µg/L	1		SW-846 8270D	2/5/13	2/6/13 17:07	CJM
Benzo(g,h,i)perylene (low)	ND	0.50	µg/L	1		SW-846 8270D	2/5/13	2/6/13 17:07	CJM
Benzo(k)fluoranthene (low)	ND	0.20	µg/L	1		SW-846 8270D	2/5/13	2/6/13 17:07	CJM
Chrysene (low)	ND	0.20	µg/L	1		SW-846 8270D	2/5/13	2/6/13 17:07	CJM
Dibenz(a,h)anthracene (low)	ND	0.20	µg/L	1		SW-846 8270D	2/5/13	2/6/13 17:07	CJM
Fluoranthene (low)	ND	0.50	µg/L	1		SW-846 8270D	2/5/13	2/6/13 17:07	CJM
Fluorene (low)	ND	1.0	µg/L	1		SW-846 8270D	2/5/13	2/6/13 17:07	CJM
Indeno(1,2,3-cd)pyrene (low)	ND	0.20	µg/L	1		SW-846 8270D	2/5/13	2/6/13 17:07	CJM
2-Methylnaphthalene (low)	ND	1.0	µg/L	1		SW-846 8270D	2/5/13	2/6/13 17:07	CJM
Naphthalene (low)	ND	1.0	µg/L	1		SW-846 8270D	2/5/13	2/6/13 17:07	CJM
Phenanthrene (low)	ND	0.050	µg/L	1		SW-846 8270D	2/5/13	2/6/13 17:07	CJM
Pyrene (low)	ND	1.0	µg/L	1		SW-846 8270D	2/5/13	2/6/13 17:07	CJM
Surrogates	% Recovery	Recovery Limits	Flag						
Nitrobenzene-d5 (low)	74.7	30-130							
2-Fluorobiphenyl (low)	68.0	30-130							
Terphenyl-d14 (low)	44.2	30-130							



Project Location: Mystic CT

Sample Description:

Work Order: 13B0120

Date Received: 2/4/2013

Field Sample #: 1273941

Sample ID: 13B0120-12

Start Date/Time: 2/4/2013 3:45:00PM

Sample Matrix: Ground Water

Stop Date/Time: 2/4/2013 3:53:00PM

### Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	ND	0.075	mg/L	1		CTDEP ETPH	2/6/13	2/7/13 12:25	SCS
Surrogates	% Recovery		Recovery Limits		Flag				
o-Terphenyl	79.3		50-150			2/7/13 12:25			



Project Location: Mystic CT

Sample Description:

Work Order: 13B0120

Date Received: 2/4/2013

Field Sample #: 1273941 uf

Sample ID: 13B0120-13

Start Date/Time: 2/4/2013 3:45:00PM

Sample Matrix: Ground Water

Stop Date/Time: 2/4/2013 4:23:00PM

**Metals Analyses (Total)**

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	2.0	µg/L	5		SW-846 6020A	2/5/13	2/6/13 13:09	KSH
Barium	ND	50	µg/L	5		SW-846 6020A	2/5/13	2/6/13 13:09	KSH
Cadmium	ND	2.5	µg/L	5		SW-846 6020A	2/5/13	2/6/13 13:09	KSH
Chromium	ND	5.0	µg/L	5		SW-846 6020A	2/5/13	2/6/13 13:09	KSH
Copper	ND	25	µg/L	5		SW-846 6020A	2/5/13	2/6/13 13:09	KSH
Lead	ND	5.0	µg/L	5		SW-846 6020A	2/5/13	2/6/13 13:09	KSH
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	2/5/13	2/6/13 12:04	SAJ
Nickel	ND	25	µg/L	5		SW-846 6020A	2/5/13	2/6/13 13:09	KSH
Selenium	ND	25	µg/L	5		SW-846 6020A	2/5/13	2/6/13 13:09	KSH
Silver	ND	2.5	µg/L	5		SW-846 6020A	2/5/13	2/6/13 13:09	KSH
Zinc	ND	50	µg/L	5		SW-846 6020A	2/5/13	2/6/13 13:09	KSH



### Sample Extraction Data

**Prep Method: SW-846 3510C-CTDEP ETPH**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13B0120-01 [1273939]	B067332	1000	1.00	02/06/13
13B0120-03 [1273942]	B067332	1000	1.00	02/06/13
13B0120-05 [1273943]	B067332	1000	1.00	02/06/13
13B0120-07 [1273946]	B067332	1000	1.00	02/06/13
13B0120-10 [1273940]	B067332	1000	1.00	02/06/13
13B0120-12 [1273941]	B067332	1000	1.00	02/06/13

**Prep Method: SW-846 3005A-SW-846 6020A**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13B0120-02 [1273939 uf]	B067266	50.0	50.0	02/05/13
13B0120-04 [1273942 uf]	B067266	50.0	50.0	02/05/13
13B0120-04 [1273942 uf]	B067266	50.0	50.0	02/05/13
13B0120-06 [1273943 uf]	B067266	50.0	50.0	02/05/13
13B0120-08 [1273946 uf]	B067266	50.0	50.0	02/05/13
13B0120-11 [1273940 uf]	B067266	50.0	50.0	02/05/13
13B0120-13 [1273941 uf]	B067266	50.0	50.0	02/05/13

**Prep Method: SW-846 7470A Prep-SW-846 7470A**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13B0120-02 [1273939 uf]	B067303	6.00	6.00	02/05/13
13B0120-04 [1273942 uf]	B067303	6.00	6.00	02/05/13
13B0120-06 [1273943 uf]	B067303	6.00	6.00	02/05/13
13B0120-08 [1273946 uf]	B067303	6.00	6.00	02/05/13
13B0120-11 [1273940 uf]	B067303	6.00	6.00	02/05/13
13B0120-13 [1273941 uf]	B067303	6.00	6.00	02/05/13

**Prep Method: SW-846 5030B-SW-846 8260C**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13B0120-01 [1273939]	B067275	5	5.00	02/05/13
13B0120-03 [1273942]	B067275	5	5.00	02/05/13
13B0120-05 [1273943]	B067275	5	5.00	02/05/13
13B0120-07 [1273946]	B067275	5	5.00	02/05/13
13B0120-09 [1273947]	B067275	5	5.00	02/05/13
13B0120-10 [1273940]	B067275	5	5.00	02/05/13
13B0120-12 [1273941]	B067275	5	5.00	02/05/13

**Prep Method: SW-846 3510C-SW-846 8270D**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13B0120-01 [1273939]	B067253	1000	1.00	02/05/13
13B0120-03 [1273942]	B067253	1000	1.00	02/05/13
13B0120-05 [1273943]	B067253	1000	1.00	02/05/13
13B0120-07 [1273946]	B067253	1000	1.00	02/05/13
13B0120-10 [1273940]	B067253	1000	1.00	02/05/13
13B0120-12 [1273941]	B067253	1000	1.00	02/05/13



**QUALITY CONTROL**
**Volatile Organic Compounds by GC/MS - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B067275 - SW-846 5030B**
**Blank (B067275-BLK1)**

Prepared &amp; Analyzed: 02/05/13

Acetone	ND	5.0	µg/L
Acrylonitrile	ND	2.0	µg/L
Benzene	ND	0.50	µg/L
Bromobenzene	ND	0.50	µg/L
Bromodichloromethane	ND	0.50	µg/L
Bromoform	ND	0.50	µg/L
Bromomethane	ND	5.0	µg/L
2-Butanone (MEK)	ND	5.0	µg/L
n-Butylbenzene	ND	1.0	µg/L
sec-Butylbenzene	ND	1.0	µg/L
tert-Butylbenzene	ND	1.0	µg/L
Carbon Disulfide	ND	5.0	µg/L
Carbon Tetrachloride	ND	0.50	µg/L
Chlorobenzene	ND	0.50	µg/L
Chlorodibromomethane	ND	0.50	µg/L
Chloroethane	ND	0.50	µg/L
Chloroform	ND	0.50	µg/L
Chloromethane	ND	0.50	µg/L
2-Chlorotoluene	ND	0.50	µg/L
4-Chlorotoluene	ND	0.50	µg/L
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.50	µg/L
1,2-Dibromoethane (EDB)	ND	0.50	µg/L
Dibromomethane	ND	0.50	µg/L
1,2-Dichlorobenzene	ND	0.50	µg/L
1,3-Dichlorobenzene	ND	0.50	µg/L
1,4-Dichlorobenzene	ND	0.50	µg/L
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L
Dichlorodifluoromethane (Freon 12)	ND	0.50	µg/L
1,1-Dichloroethane	ND	0.50	µg/L
1,2-Dichloroethane	ND	0.50	µg/L
1,1-Dichloroethylene	ND	0.50	µg/L
cis-1,2-Dichloroethylene	ND	0.50	µg/L
trans-1,2-Dichloroethylene	ND	1.0	µg/L
1,2-Dichloropropane	ND	0.50	µg/L
1,3-Dichloropropane	ND	0.50	µg/L
2,2-Dichloropropane	ND	0.50	µg/L
1,1-Dichloropropene	ND	0.50	µg/L
cis-1,3-Dichloropropene	ND	0.50	µg/L
trans-1,3-Dichloropropene	ND	0.50	µg/L
Ethylbenzene	ND	0.50	µg/L
Hexachlorobutadiene	ND	0.40	µg/L
2-Hexanone (MBK)	ND	5.0	µg/L
Isopropylbenzene (Cumene)	ND	0.50	µg/L
p-Isopropyltoluene (p-Cymene)	ND	0.50	µg/L
Methyl tert-Butyl Ether (MTBE)	ND	0.50	µg/L
Methylene Chloride	ND	5.0	µg/L
4-Methyl-2-pentanone (MIBK)	ND	5.0	µg/L
Naphthalene	ND	2.0	µg/L
n-Propylbenzene	ND	1.0	µg/L
Styrene	ND	1.0	µg/L
1,1,1,2-Tetrachloroethane	ND	0.50	µg/L
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L



**QUALITY CONTROL**
**Volatile Organic Compounds by GC/MS - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B067275 - SW-846 5030B</b>										
<b>Blank (B067275-BLK1)</b>										
Prepared & Analyzed: 02/05/13										
Tetrachloroethylene	ND	1.0	µg/L							
Tetrahydrofuran	ND	10	µg/L							
Toluene	ND	1.0	µg/L							
1,2,3-Trichlorobenzene	ND	0.50	µg/L							
1,2,4-Trichlorobenzene	ND	0.50	µg/L							
1,1,1-Trichloroethane	ND	0.50	µg/L							
1,1,2-Trichloroethane	ND	0.50	µg/L							
Trichloroethylene	ND	1.0	µg/L							
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L							
1,2,3-Trichloropropane	ND	0.50	µg/L							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	µg/L							
1,2,4-Trimethylbenzene	ND	0.50	µg/L							
1,3,5-Trimethylbenzene	ND	0.50	µg/L							
Vinyl Chloride	ND	1.0	µg/L							
m+p Xylene	ND	2.0	µg/L							
o-Xylene	ND	1.0	µg/L							
Surrogate: 1,2-Dichloroethane-d4	25.2		µg/L	25.0		101	70-130			
Surrogate: Toluene-d8	24.7		µg/L	25.0		98.6	70-130			
Surrogate: 4-Bromofluorobenzene	26.2		µg/L	25.0		105	70-130			
<b>LCS (B067275-BS1)</b>										
Prepared & Analyzed: 02/05/13										
Acetone	98.3	5.0	µg/L	100		98.3	70-130			
Acrylonitrile	9.80	2.0	µg/L	10.0		98.0	70-130			
Benzene	9.62	0.50	µg/L	10.0		96.2	70-130			
Bromobenzene	10.6	0.50	µg/L	10.0		106	70-130			
Bromodichloromethane	10.1	0.50	µg/L	10.0		101	70-130			
Bromoform	10.8	0.50	µg/L	10.0		108	70-130			
Bromomethane	9.41	5.0	µg/L	10.0		94.1	70-130			
2-Butanone (MEK)	107	5.0	µg/L	100		107	70-130			
n-Butylbenzene	11.4	1.0	µg/L	10.0		114	70-130			
sec-Butylbenzene	11.0	1.0	µg/L	10.0		110	70-130			
tert-Butylbenzene	11.2	1.0	µg/L	10.0		112	70-130			
Carbon Disulfide	101	5.0	µg/L	100		101	70-130			
Carbon Tetrachloride	9.86	0.50	µg/L	10.0		98.6	70-130			
Chlorobenzene	9.97	0.50	µg/L	10.0		99.7	70-130			
Chlorodibromomethane	10.1	0.50	µg/L	10.0		101	70-130			
Chloroethane	9.64	0.50	µg/L	10.0		96.4	70-130			
Chloroform	9.48	0.50	µg/L	10.0		94.8	70-130			
Chloromethane	10.0	0.50	µg/L	10.0		100	70-130			
2-Chlorotoluene	10.9	0.50	µg/L	10.0		109	70-130			
4-Chlorotoluene	10.8	0.50	µg/L	10.0		108	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	11.9	0.50	µg/L	10.0		119	70-130			
1,2-Dibromoethane (EDB)	10.2	0.50	µg/L	10.0		102	70-130			
Dibromomethane	9.74	0.50	µg/L	10.0		97.4	70-130			
1,2-Dichlorobenzene	10.7	0.50	µg/L	10.0		107	70-130			
1,3-Dichlorobenzene	10.9	0.50	µg/L	10.0		109	70-130			
1,4-Dichlorobenzene	10.8	0.50	µg/L	10.0		108	70-130			
trans-1,4-Dichloro-2-butene	9.49	2.0	µg/L	10.0		94.9	70-130			
Dichlorodifluoromethane (Freon 12)	10.7	0.50	µg/L	10.0		107	70-130			
1,1-Dichloroethane	9.85	0.50	µg/L	10.0		98.5	70-130			
1,2-Dichloroethane	9.11	0.50	µg/L	10.0		91.1	70-130			
1,1-Dichloroethylene	10.0	0.50	µg/L	10.0		100	70-130			



**QUALITY CONTROL**
**Volatile Organic Compounds by GC/MS - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B067275 - SW-846 5030B</b>										
<b>LCS (B067275-BS1)</b>				Prepared & Analyzed: 02/05/13						
cis-1,2-Dichloroethylene	10.1	0.50	µg/L	10.0		101	70-130			
trans-1,2-Dichloroethylene	10.2	1.0	µg/L	10.0		102	70-130			
1,2-Dichloropropane	10.2	0.50	µg/L	10.0		102	70-130			
1,3-Dichloropropane	9.48	0.50	µg/L	10.0		94.8	70-130			
2,2-Dichloropropane	9.79	0.50	µg/L	10.0		97.9	70-130			
1,1-Dichloropropene	9.64	0.50	µg/L	10.0		96.4	70-130			
cis-1,3-Dichloropropene	10.4	0.50	µg/L	10.0		104	70-130			
trans-1,3-Dichloropropene	10.4	0.50	µg/L	10.0		104	70-130			
Ethylbenzene	10.8	0.50	µg/L	10.0		108	70-130			
Hexachlorobutadiene	10.1	0.40	µg/L	10.0		101	70-130			
2-Hexanone (MBK)	116	5.0	µg/L	100		116	70-130			
Isopropylbenzene (Cumene)	10.4	0.50	µg/L	10.0		104	70-130			
p-Isopropyltoluene (p-Cymene)	11.5	0.50	µg/L	10.0		115	70-130			
Methyl tert-Butyl Ether (MTBE)	10.0	0.50	µg/L	10.0		100	70-130			
Methylene Chloride	11.2	5.0	µg/L	10.0		112	70-130			
4-Methyl-2-pentanone (MIBK)	116	5.0	µg/L	100		116	70-130			
Naphthalene	10.8	2.0	µg/L	10.0		108	70-130			
n-Propylbenzene	10.6	1.0	µg/L	10.0		106	70-130			
Styrene	10.3	1.0	µg/L	10.0		103	70-130			
1,1,1,2-Tetrachloroethane	10.2	0.50	µg/L	10.0		102	70-130			
1,1,2,2-Tetrachloroethane	10.8	0.50	µg/L	10.0		108	70-130			
Tetrachloroethylene	10.6	1.0	µg/L	10.0		106	70-130			
Tetrahydrofuran	9.25	10	µg/L	10.0		92.5	70-130			
Toluene	10.3	1.0	µg/L	10.0		103	70-130			
1,2,3-Trichlorobenzene	10.3	0.50	µg/L	10.0		103	70-130			
1,2,4-Trichlorobenzene	10.5	0.50	µg/L	10.0		105	70-130			
1,1,1-Trichloroethane	9.80	0.50	µg/L	10.0		98.0	70-130			
1,1,2-Trichloroethane	9.95	0.50	µg/L	10.0		99.5	70-130			
Trichloroethylene	10.2	1.0	µg/L	10.0		102	70-130			
Trichlorofluoromethane (Freon 11)	10.1	2.0	µg/L	10.0		101	70-130			
1,2,3-Trichloropropane	10.8	0.50	µg/L	10.0		108	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.96	0.50	µg/L	10.0		99.6	70-130			
1,2,4-Trimethylbenzene	11.6	0.50	µg/L	10.0		116	70-130			
1,3,5-Trimethylbenzene	11.0	0.50	µg/L	10.0		110	70-130			
Vinyl Chloride	8.50	1.0	µg/L	10.0		85.0	70-130			
m+p Xylene	22.0	2.0	µg/L	20.0		110	70-130			
o-Xylene	11.0	1.0	µg/L	10.0		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	25.3		µg/L	25.0		101	70-130			
Surrogate: Toluene-d8	25.7		µg/L	25.0		103	70-130			
Surrogate: 4-Bromofluorobenzene	25.1		µg/L	25.0		100	70-130			



**QUALITY CONTROL**
**Semivolatile Organic Compounds by GC/MS - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B067253 - SW-846 3510C**
**Blank (B067253-BLK1)**

Prepared: 02/05/13 Analyzed: 02/06/13

Acenaphthene (low)	ND	0.30	µg/L							
Acenaphthylene (low)	ND	0.30	µg/L							
Anthracene (low)	ND	0.20	µg/L							
Benzo(a)anthracene (low)	ND	0.050	µg/L							
Benzo(a)pyrene (low)	ND	0.10	µg/L							
Benzo(b)fluoranthene (low)	ND	0.050	µg/L							
Benzo(g,h,i)perylene (low)	ND	0.50	µg/L							
Benzo(k)fluoranthene (low)	ND	0.20	µg/L							
Chrysene (low)	ND	0.20	µg/L							
Dibenz(a,h)anthracene (low)	ND	0.20	µg/L							
Fluoranthene (low)	ND	0.50	µg/L							
Fluorene (low)	ND	1.0	µg/L							
Indeno(1,2,3-cd)pyrene (low)	ND	0.20	µg/L							
2-Methylnaphthalene (low)	ND	1.0	µg/L							
Naphthalene (low)	ND	1.0	µg/L							
Phenanthrene (low)	ND	0.050	µg/L							
Pyrene (low)	ND	1.0	µg/L							
Surrogate: Nitrobenzene-d5 (low)	82.3		µg/L	100		82.3	30-130			
Surrogate: 2-Fluorobiphenyl (low)	75.2		µg/L	100		75.2	30-130			
Surrogate: Terphenyl-d14 (low)	82.8		µg/L	100		82.8	30-130			

**LCS (B067253-BS1)**

Prepared: 02/05/13 Analyzed: 02/06/13

Acenaphthene (low)	41.0	7.5	µg/L	50.0		82.0	40-140			
Acenaphthylene (low)	41.7	7.5	µg/L	50.0		83.4	40-140			
Anthracene (low)	43.4	5.0	µg/L	50.0		86.8	40-140			
Benzo(a)anthracene (low)	43.0	1.2	µg/L	50.0		86.0	40-140			
Benzo(a)pyrene (low)	42.9	2.5	µg/L	50.0		85.8	40-140			
Benzo(b)fluoranthene (low)	45.2	1.2	µg/L	50.0		90.3	40-140			
Benzo(g,h,i)perylene (low)	44.0	12	µg/L	50.0		88.1	40-140			
Benzo(k)fluoranthene (low)	42.0	5.0	µg/L	50.0		84.0	40-140			
Chrysene (low)	39.8	5.0	µg/L	50.0		79.5	40-140			
Dibenz(a,h)anthracene (low)	45.5	5.0	µg/L	50.0		91.0	40-140			
Fluoranthene (low)	41.2	12	µg/L	50.0		82.4	40-140			
Fluorene (low)	42.9	25	µg/L	50.0		85.8	40-140			
Indeno(1,2,3-cd)pyrene (low)	45.4	5.0	µg/L	50.0		90.7	40-140			
2-Methylnaphthalene (low)	35.4	25	µg/L	50.0		70.7	40-140			
Naphthalene (low)	33.9	25	µg/L	50.0		67.8	40-140			
Phenanthrene (low)	38.2	1.2	µg/L	50.0		76.5	40-140			
Pyrene (low)	39.8	25	µg/L	50.0		79.5	40-140			
Surrogate: Nitrobenzene-d5 (low)	79.8		µg/L	100		79.8	30-130			
Surrogate: 2-Fluorobiphenyl (low)	79.3		µg/L	100		79.3	30-130			
Surrogate: Terphenyl-d14 (low)	75.0		µg/L	100		75.0	30-130			



**QUALITY CONTROL**
**Semivolatile Organic Compounds by GC/MS - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B067253 - SW-846 3510C**
**LCS Dup (B067253-BSD1)**

Prepared: 02/05/13 Analyzed: 02/06/13

Acenaphthene (low)	42.4	7.5	µg/L	50.0		84.7	40-140	3.18	20	
Acenaphthylene (low)	42.6	7.5	µg/L	50.0		85.2	40-140	2.08	20	
Anthracene (low)	45.0	5.0	µg/L	50.0		90.1	40-140	3.67	20	
Benzo(a)anthracene (low)	43.9	1.2	µg/L	50.0		87.8	40-140	2.13	20	
Benzo(a)pyrene (low)	43.9	2.5	µg/L	50.0		87.8	40-140	2.42	20	
Benzo(b)fluoranthene (low)	45.9	1.2	µg/L	50.0		91.8	40-140	1.59	20	
Benzo(g,h,i)perylene (low)	45.7	12	µg/L	50.0		91.4	40-140	3.62	20	
Benzo(k)fluoranthene (low)	42.6	5.0	µg/L	50.0		85.2	40-140	1.42	20	
Chrysene (low)	40.7	5.0	µg/L	50.0		81.4	40-140	2.30	20	
Dibenz(a,h)anthracene (low)	46.9	5.0	µg/L	50.0		93.8	40-140	2.92	20	
Fluoranthene (low)	42.9	12	µg/L	50.0		85.8	40-140	4.05	20	
Fluorene (low)	45.3	25	µg/L	50.0		90.6	40-140	5.50	20	
Indeno(1,2,3-cd)pyrene (low)	46.8	5.0	µg/L	50.0		93.6	40-140	3.20	50	
2-Methylnaphthalene (low)	36.3	25	µg/L	50.0		72.6	40-140	2.72	20	
Naphthalene (low)	34.8	25	µg/L	50.0		69.6	40-140	2.77	20	
Phenanthrene (low)	39.5	1.2	µg/L	50.0		79.0	40-140	3.22	20	
Pyrene (low)	40.1	25	µg/L	50.0		80.2	40-140	0.939	20	
Surrogate: Nitrobenzene-d5 (low)	78.7		µg/L	100		78.7	30-130			
Surrogate: 2-Fluorobiphenyl (low)	77.9		µg/L	100		77.9	30-130			
Surrogate: Terphenyl-d14 (low)	75.5		µg/L	100		75.5	30-130			



**QUALITY CONTROL**
**Petroleum Hydrocarbons Analyses - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B067332 - SW-846 3510C**
**Blank (B067332-BLK1)**

Prepared: 02/06/13 Analyzed: 02/07/13

CT ETPH	ND	0.075	mg/L							
Surrogate: o-Terphenyl	0.0852		mg/L	0.100		85.2	50-150			

**LCS (B067332-BS2)**

Prepared: 02/06/13 Analyzed: 02/07/13

CT ETPH	0.801	0.075	mg/L	1.00		80.1	60-120			
Surrogate: o-Terphenyl	0.0734		mg/L	0.100		73.4	50-150			



**QUALITY CONTROL**
**Metals Analyses (Total) - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B067266 - SW-846 3005A**
**Blank (B067266-BLK1)**

Prepared: 02/05/13 Analyzed: 02/06/13

Arsenic	ND	2.0	µg/L
Barium	ND	50	µg/L
Cadmium	ND	2.5	µg/L
Chromium	ND	5.0	µg/L
Copper	ND	25	µg/L
Lead	ND	5.0	µg/L
Nickel	ND	25	µg/L
Selenium	ND	25	µg/L
Silver	ND	2.5	µg/L
Zinc	ND	50	µg/L

**LCS (B067266-BS1)**

Prepared: 02/05/13 Analyzed: 02/06/13

Arsenic	249	2.0	µg/L	250	99.8	80-120
Barium	251	50	µg/L	250	100	80-120
Cadmium	253	2.5	µg/L	250	101	80-120
Chromium	268	5.0	µg/L	250	107	80-120
Copper	263	25	µg/L	250	105	80-120
Lead	262	5.0	µg/L	250	105	80-120
Nickel	266	25	µg/L	250	106	80-120
Selenium	260	25	µg/L	250	104	80-120
Silver	265	2.5	µg/L	250	106	80-120
Zinc	270	50	µg/L	250	108	80-120

**LCS Dup (B067266-BSD1)**

Prepared: 02/05/13 Analyzed: 02/06/13

Arsenic	252	2.0	µg/L	250	101	80-120	1.01	20
Barium	250	50	µg/L	250	100	80-120	0.354	20
Cadmium	251	2.5	µg/L	250	100	80-120	0.685	20
Chromium	259	5.0	µg/L	250	104	80-120	3.15	20
Copper	264	25	µg/L	250	105	80-120	0.123	20
Lead	262	5.0	µg/L	250	105	80-120	0.131	20
Nickel	262	25	µg/L	250	105	80-120	1.32	20
Selenium	254	25	µg/L	250	101	80-120	2.27	20
Silver	263	2.5	µg/L	250	105	80-120	0.897	20
Zinc	264	50	µg/L	250	106	80-120	2.32	20

**Batch B067303 - SW-846 7470A Prep**
**Blank (B067303-BLK1)**

Prepared: 02/05/13 Analyzed: 02/06/13

Mercury	ND	0.00010	mg/L
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**LCS (B067303-BS1)**

Prepared: 02/05/13 Analyzed: 02/06/13

Mercury	0.00192	0.00010	mg/L	0.00200	95.9	80-120
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**QUALITY CONTROL**

**Metals Analyses (Total) - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B067303 - SW-846 7470A Prep**

**LCS Dup (B067303-BSD1)**

Prepared: 02/05/13 Analyzed: 02/06/13

Mercury	0.00185	0.00010	mg/L	0.00200		92.7	80-120	3.37	20	
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**FLAG/QUALIFIER SUMMARY**

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

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



# CERTIFICATIONS

## Certified Analyses included in this Report

Analyte	Certifications
<b>CTDEP ETPH in Water</b>	
CT ETPH	CT
<b>SW-846 6020A in Water</b>	
Arsenic	CT,NH,NY,RI,NC,ME,VA
Barium	CT,NH,NY,RI,NC,ME,VA
Cadmium	CT,NH,NY,RI,NC,ME,VA
Chromium	CT,NH,NY,RI,NC,ME,VA
Copper	CT,NH,NY,RI,NC,ME,VA
Lead	CT,NH,NY,RI,NC,ME,VA
Nickel	CT,NH,NY,RI,NC,ME,VA
Selenium	CT,NH,NY,RI,NC,ME,VA
Silver	CT,NH,NY,RI,NC,ME,VA
Zinc	CT,NH,NY,RI,NC,ME,VA
<b>SW-846 7470A in Water</b>	
Mercury	CT,NH,NY,RI,NC,ME,VA
<b>SW-846 8260C in Water</b>	
Acetone	CT,NH,NY,ME
Acrylonitrile	CT,NY,ME,RI
Benzene	CT,NH,NY,ME,RI
Bromodichloromethane	CT,NH,NY,ME,RI
Bromoform	CT,NH,NY,ME,RI
Bromomethane	CT,NH,NY,ME,RI
2-Butanone (MEK)	CT,NH,NY,ME
n-Butylbenzene	NY,ME
sec-Butylbenzene	NY,ME
tert-Butylbenzene	NY,ME
Carbon Disulfide	CT,NH,NY,ME
Carbon Tetrachloride	CT,NH,NY,ME,RI
Chlorobenzene	CT,NH,NY,ME,RI
Chlorodibromomethane	CT,NH,NY,ME,RI
Chloroethane	CT,NH,NY,ME,RI
Chloroform	CT,NH,NY,ME,RI
Chloromethane	CT,NH,NY,ME,RI
2-Chlorotoluene	NY,ME
4-Chlorotoluene	NY,ME
Dibromomethane	NH,NY,ME
1,2-Dichlorobenzene	CT,NY,ME,RI
1,3-Dichlorobenzene	CT,NH,NY,ME,RI
1,4-Dichlorobenzene	CT,NH,NY,ME,RI
trans-1,4-Dichloro-2-butene	NH,NY,ME
Dichlorodifluoromethane (Freon 12)	NH,NY,ME,RI
1,1-Dichloroethane	CT,NH,NY,ME,RI
1,2-Dichloroethane	CT,NH,NY,ME,RI
1,1-Dichloroethylene	CT,NH,NY,ME,RI
cis-1,2-Dichloroethylene	NY,ME
trans-1,2-Dichloroethylene	CT,NH,NY,ME,RI
1,2-Dichloropropane	CT,NH,NY,ME,RI



# CERTIFICATIONS

## Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260C in Water</i>	
1,3-Dichloropropane	NY,ME
2,2-Dichloropropane	NH,NY,ME
1,1-Dichloropropene	NH,NY,ME
cis-1,3-Dichloropropene	CT,NH,NY,ME,RI
trans-1,3-Dichloropropene	CT,NH,NY,ME,RI
Ethylbenzene	CT,NH,NY,ME,RI
Hexachlorobutadiene	CT,NH,NY,ME
2-Hexanone (MBK)	CT,NH,NY,ME
Isopropylbenzene (Cumene)	NY,ME
p-Isopropyltoluene (p-Cymene)	CT,NH,NY,ME
Methyl tert-Butyl Ether (MTBE)	CT,NH,NY,ME
Methylene Chloride	CT,NH,NY,ME,RI
4-Methyl-2-pentanone (MIBK)	CT,NH,NY,ME
Naphthalene	NH,NY,ME
n-Propylbenzene	CT,NH,NY,ME
Styrene	CT,NH,NY,ME
1,1,1,2-Tetrachloroethane	CT,NH,NY,ME
1,1,2,2-Tetrachloroethane	CT,NH,NY,ME,RI
Tetrachloroethylene	CT,NH,NY,ME,RI
Toluene	CT,NH,NY,ME,RI
1,2,3-Trichlorobenzene	NH,NY,ME
1,2,4-Trichlorobenzene	CT,NH,NY,ME
1,1,1-Trichloroethane	CT,NH,NY,ME,RI
1,1,2-Trichloroethane	CT,NH,NY,ME,RI
Trichloroethylene	CT,NH,NY,ME,RI
Trichlorofluoromethane (Freon 11)	CT,NH,NY,ME,RI
1,2,3-Trichloropropane	NH,NY,ME
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	NY
1,2,4-Trimethylbenzene	NY,ME
1,3,5-Trimethylbenzene	NY,ME
Vinyl Chloride	CT,NH,NY,ME,RI
m+p Xylene	CT,NH,NY,ME,RI
o-Xylene	CT,NH,NY,ME,RI



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

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





39 Spruce Street  
 Gloucester, Massachusetts 01430

Rev 04.05.12

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Container Co

## Dissonanced Metaphors

☐ Field Filtered

☐ Lab to Filter

**\*\*\*Cont. Code:**

A=amber glass  
G=clear glass

**P=plastic**

SI=sterile  
V= vital

$S$ =summa can  
T=tedlar bar

0=Other

**\*\*Preservation**

**H = HCL**  
**M = Methanol**

**N = Nitric Acid**

**S** = Sulfuric Acid

**X = Na hydroxide**  
**T = Na thiosulfate**

0 = Other

**\*Matrix Code:**

**GW** = groundwater

**DW= drinking water**

**A** = air  
**S** = soil/solid

 $\sigma_{sl} = \text{sludge}$ 

**0 - Ollie!**

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#

**AIHA-LAP, LLC**

credited

**LETELRY OR**

**DOCUMENT**

**PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT**

Page 49 of 54 13B0120\_1 Contest\_Final 02 07 13 1750 02/07/13 17:51:01





**CON-test**  
ANALYTICAL LABORATORY

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

# CHAIN OF CUSTODY RECORD

Rev 04.05.12

39 Spruce Street  
East Longmeadow, MA 01028

Page 2 of 2

Company Name: Leveiro

Address: 100 Northwest Dr

Plainville CT 06062

Attention: Deane Scott

Project Location: Mystic CT

Sampled By: Keith Walker

Project Proposal Provided? (for billing purposes)  
☐ Yes ☐ No  
proposal date

Telephone: 860 247 6181

Project # 18H1301

Client PO#

DATA DELIVERY (check all that apply)  
☐ FAX ☒ EMAIL ☐ WEBSITE

Fax #

Email:

Format:

discothi@leveiro.com  
☒ PDF ☐ EXCEL ☐ OGIS  
☐ OTHER

## Collection

☐ "Enhanced Data Package"

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	*Matrix Date	*Date Label
11	12739410 v f	2/4/13 1400	2/4/13 1445		X	GW	V
12	12739411	2/4/13 1545	2/4/13 1553		X	GW	V
13	12739411 v f	2/4/13 1545	2/4/13 1553		X	GW	V

Comments:

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

## Detection Limit Requirements

Massachusetts:

## Is your project MCP or RCP?

- ☐ MCP Form Required  
☒ RCP Form Required  
☐ MA State DW Form Required PWSID #

Accredited by NELAC & AIHA-LAP, LLC  
WBEDBE Certified

3	2	1	2						
W/C	I	W/C	I						
V	A	P	A						

## ANALYSIS REQUESTED

VCX 8260  
PAH 8270  
Metals RCRA 8+Cu, Ni, Zn  
CT ETPH

- # of Containers  
\*\* Preservation  
\*\*\* Container Code  
Dissolved Metals  
☐ Field Filtered  
☐ Lab to Filter

## Cont Code:

- A=amber glass  
G=glass  
P=plastic  
ST=sterile  
V=vial  
S=summa can  
T=federal bag  
O=Other

## \*\*Preservation

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

## \*Matrix Code:

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

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

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT



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



## Sample Receipt Checklist

CLIENT NAME: LAURELLO RECEIVED BY: WF DATE: 2-4-13

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

2) Does the chain agree with the samples? Yes No

If not, explain:

3) Are all the samples in good condition? Yes No

If not, explain:

4) How were the samples received:

On Ice ☒ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☒

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

Temperature °C by Temp blank \_\_\_\_\_ Temperature °C by Temp gun 4.2

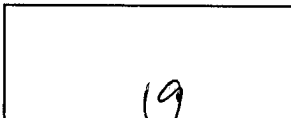
5) Are there Dissolved samples for the lab to filter? Yes No

Who was notified \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_

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

Who was notified \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_

7) Location where samples are stored:



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

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

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

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

### Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber	<u>24</u>	8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Air Cassette	
500 mL Plastic	<u>6</u>	Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	
40 mL Vial - type listed below		PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle	<u>21</u>	SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

40 mL vials: # HCl 21 # Methanol \_\_\_\_\_

Doc# 277 # Bisulfate \_\_\_\_\_ # DI Water \_\_\_\_\_

Rev. 3 May 2012 # Thiosulfate \_\_\_\_\_ Unpreserved \_\_\_\_\_

Time and Date Frozen:



**CT ETPH DISCRIMINATION CHECK**

Date Acquired 2/7/13  
Data File Name A0207006.D  
Sample Name ETPH 1500  
Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.23	296808	325688	-9
c - 10	1.58	314989	325688	-3
c - 12	2.31	318380	325688	-2
c - 14	2.98	327793	325688	1
c - 16	3.58	329288	325688	1
c - 18	4.19	338935	325688	4
o-Terphenyl	4.49	390049	325688	
c - 20	4.80	339238	325688	4
c - 22	5.31	339767	325688	4
c - 24	5.75	338317	325688	4
c - 26	6.15	334687	325688	3
c - 28	6.51	326883	325688	0
c - 30	6.84	323230	325688	-1
c - 32	7.15	315372	325688	-3
c - 34	7.45	318302	325688	-2
c - 36	7.76	323334	325688	-1

\* One compound allowed %D <= 50%

**Samples**

13B0120-03  
13B0120-05  
13B0120-07  
13B0120-10  
13B0120-12



**CT ETPH DISCRIMINATION CHECK**

Date Acquired 2/7/13  
Data File Name A0207007.D  
Sample Name ETPH 1500  
Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.26	280601	302284	-7
c - 10	1.60	298258	302284	-1
c - 12	2.31	302540	302284	0
c - 14	2.97	310009	302284	3
c - 16	3.57	308543	302284	2
c - 18	4.16	313829	302284	4
o-Terphenyl	4.46	354748	302284	
c - 20	4.77	310260	302284	3
c - 22	5.28	307871	302284	2
c - 24	5.71	305241	302284	1
c - 26	6.11	302687	302284	0
c - 28	6.47	298164	302284	-1
c - 30	6.80	298384	302284	-1
c - 32	7.11	294107	302284	-3
c - 34	7.40	298800	302284	-1
c - 36	7.70	304967	302284	1

\* One compound allowed %D <= 50%

Samples

13B0120-01





## REASONABLE CONFIDENCE PROTOCOL LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

**Laboratory Name:** Con-Test Analytical Laboratory

**Client:** Loureiro Engineering Associates

**Project Location:** Mystic CT

**Project Number:** 13B0120

**Laboratory Sample ID(s):**

13B0120-01 thru 13B0120-13

**Sample Date(s):**

02/04/2013

**List RCP Methods Used:**

CTDEP ETPH, SW-846 6020A, SW-846 7470A, SW-846 8260C, SW-846 8270D

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1A	Were the method specified preservation and holding time requirements met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1B	VPH and EPH Methods only: Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3	Were samples received at an appropriate temperature (< 6 degrees C.)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5A	Were reporting limits specified or referenced on the chain-of-custody?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5B	Were these reporting limits met?	<input type="checkbox"/> Yes <input type="checkbox"/> No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence."

This form may not be altered and all questions must be answered.

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

**Authorized Signature:**

**Position:** Laboratory Manager

**Printed Name:** Daren J. Damboragian

**Date:** 02/07/13

**Name of Laboratory:** Con-Test Analytical Laboratory

**This certification form is to be used for RCP methods only.**



## **APPENDIX E**

### **Data Quality Assessment Worksheets**



## DEEP Reasonable Confidence Protocol - Data Quality Assessment Worksheet

**Laboratory:** Contest Analytical Laboratory  
**Project:** Phase II ESA - 240 Oral School Road, Mystic CT  
**Commission #** 18HM301  
**SDG:** 13A0643  
**Date Samples Collected** 1/24/2013  
**RCP Certification Form Included:** Yes  
**Laboratory Case Narrative Included:** Yes



**Note 1:** Initial and continuing calibration QC non-conformances have been evaluated but are not included in the following DQA spreadsheet.  
**Note 2:** Bias High: reported result may be lower, RLs are accepted as reported.  
 Bias Low: reported result may be higher, RLs may be higher.

SDG	SAMPLE #	Lab #	Location ID	Depth (ft)	COMPOUND	QC PARAMETER	QC OUTLIER (%R / %D / RPD / RSD) Blank Contamination	BIAS	COMMENTS
13A0643	1273937	13A0643-01	TRIP BLANK	NA	No QC Issues				
13A0643	1273791	13A0643-02	SS-21	0-0.5	Copper	Matrix Spike	67.1%	Low	
13A0643	1273791	13A0643-02	SS-21	0-0.5	Copper	Laboratory Duplicate Sample	61.4%	Low	
13A0643	1273791	13A0643-02	SS-21	0-0.5	Heptachlor Epoxide	Matrix Spike / Duplicate	21.9% / 26.2%	Low	
13A0643	1273791	13A0643-02	SS-21	0-0.5	Hexachlorobenzene	Matrix Spike / Duplicate RPD	34%	non-directional	
13A0643	1273790	13A0643-03	SS-20	0-0.5	No QC Issues				
13A0643	1273789	13A0643-04	SS-19	0-0.5	Lead	Reporting Limit	79.4%	Low	The RL verification outside QC limits. Result at or near the DL may be bias low
13A0643	1273788	13A0643-05	SS-18	0-0.5	Lead	Reporting Limit	79.4%	Low	or near the DL may be bias low
13A0643	1273787	13A0643-06	SS-17	0-0.5	No QC Issues				
13A0643	1273786	13A0643-07	SS-16	0-0.5	All VOCs	Preservation		Low	Sample preserved in the laboratory, not in the field as required by the method
13A0643	1273786	13A0643-07	SS-16	0-0.5	Bromomethane	Laboratory Control Sample	160%	High	
13A0643	1273785	13A0643-08	SS-15	0-0.5	Lead	Reporting Limit	79.4%	Low	or near the DL may be bias low
13A0643	1273784	13A0643-09	SS-14	0-0.5	Lead	Reporting Limit	79.4%	Low	The RL verification outside QC limits. Result at or near the DL may be bias low
13A0643	1270649	13A0643-11	SB-002	0-0.5	All VOCs	Preservation		Low	Sample preserved in the laboratory, not in the field as required by the method
13A0643	1270649	13A0643-11	SB-002	0-0.5	Bromomethane	Laboratory Control Sample	160%	High	
13A0643	1270649	13A0643-11RE1	SB-002	0-0.5	No QC Issues				
13A0643	1273766	13A0643-12	SB-035	0-2	Chloromethane	Matrix Spike Sample	57.1%	Low	
13A0643	1273766	13A0643-12	SB-035	0-2	Dichlorodifluoromethane (Freon 12)	Matrix Spike Sample	36.5%	Low	
13A0643	1273766	13A0643-12	SB-035	0-2	Naphthalene	Matrix Spike Sample	43.3%	Low	
13A0643	1273766	13A0643-12	SB-035	0-2	1,2,3-Trichlorobenzene	Matrix Spike Sample	46.5%	Low	
13A0643	1273766	13A0643-12	SB-035	0-2	1,2,4-Trichlorobenzene	Matrix Spike Sample	51.4%	Low	
13A0643	1273766	13A0643-12	SB-035	0-2	Vinyl Chloride	Matrix Spike Sample	59.7%		



## DEEP Reasonable Confidence Protocol - Data Quality Assessment Worksheet

**Laboratory:** Contest Analytical Laboratory  
**Project:** Phase II ESA - 240 Oral School Road, Mystic CT  
**Commission #** 18HM301  
**SDG:** 13A0643  
**Date Samples Collected** 1/24/2013  
**RCP Certification Form Included:** Yes  
**Laboratory Case Narrative Included:** Yes



**Note 1:** Initial and continuing calibration QC non-conformances have been evaluated but are not included in the following DQA spreadsheet.  
**Note 2:** Bias High: reported result may be lower, RLs are accepted as reported.  
 Bias Low: reported result may be higher, RLs may be higher.

SDG	SAMPLE #	Lab #	Location ID	Depth (ft)	COMPOUND	QC PARAMETER	QC OUTLIER (%R / %D / RPD / RSD) Blank Contamination	BIAS	COMMENTS
13A0643	1273766	13A0643-12RE1	SB-035	0-2	No QC Issues				
13A0643	1273767	13A0643-13	SB-035	0-2	No QC Issues				
13A0643	1273767	13A0643-13RE1	SB-035	0-2	No QC Issues				
13A0643	1273765	13A0643-14	SB-034	0-2	No QC Issues				
13A0643	1273765	13A0643-14RE1	SB-034	0-2	No QC Issues				
13A0643	1273764	13A0643-15	SS-13	0-0.5	Lead	Reporting Limit	79.4%	Low	The RL verification outside QC limits. Result at or near the DL may be bias low
13A0643	1273763	13A0643-16	SS-03	0-0.5	No QC Issues				
13A0643	1273763	13A0643-16RE1	SS-03	0-0.5	No QC Issues				
13A0643	1273762	13A0643-17	SS-02	0-0.5	No QC Issues				
13A0643	1273762	13A0643-17RE1	SS-02	0-0.5	No QC Issues				
13A0643	1273761	13A0643-18	SS-01	0-0.5	No QC Issues				
13A0643	1273761	13A0643-18RE1	SS-01	0-0.5	No QC Issues				
13A0643	1273741	13A0643-19	SS-07	0-0.5	No QC Issues				
13A0643	1273741	13A0643-19RE1	SS-07	0-0.5	No QC Issues				
13A0643	1273742	13A0643-20	SS-08	0-0.5	No QC Issues				
13A0643	1273742	13A0643-20RE1	SS-08	0-0.5	No QC Issues				
13A0643	1273743	13A0643-21	SS-09	0-0.5	No QC Issues				
13A0643	1273743	13A0643-21RE1	SS-09	0-0.5	No QC Issues				
13A0643	1273744	13A0643-22	SB-004	0-0.5	No QC Issues				



## DEEP Reasonable Confidence Protocol - Data Quality Assessment Worksheet



**Laboratory:** Contest Analytical Laboratory  
**Project:** Phase II ESA - 240 Oral School Road, Mystic CT  
**Commission #** 18HM301  
**SDG:** 13A0643  
**Date Samples Collected** 1/24/2013  
**RCP Certification Form Included:** Yes  
**Laboratory Case Narrative Included:** Yes

**Note 1:** Initial and continuing calibration QC non-conformances have been evaluated but are not included in the following DQA spreadsheet.  
**Note 2:** Bias High: reported result may be lower, RLs are accepted as reported.  
 Bias Low: reported result may be higher, RLs may be higher.

SDG	SAMPLE #	Lab #	Location ID	Depth (ft)	COMPOUND	QC PARAMETER	QC OUTLIER (%R / %D / RPD / RSD) Blank Contamination	BIAS	COMMENTS
13A0643	1273744	13A0643-22RE1	SB-004	0-0.5	No QC Issues				
13A0643	1273746	13A0643-24	SB-006	0-0.5	No QC Issues				
13A0643	1273746	13A0643-24RE1	SB-006	0-0.5	CT ETPH	Surrogate Recovery	0%	NA	Surrogate diluted out
13A0643	1273748	13A0643-26	SB-007	0-0.5	Bromomethane	Laboratory Control Sample	160%	High	
13A0643	1273748	13A0643-26RE1	SB-007	0-0.5	CT ETPH	Surrogate Recovery	47.0%	Low	Confirmed by reanalysis (43%)
13A0643	1273750	13A0643-28	SB-001	0-2	No QC Issues				
13A0643	1273750	13A0643-28RE1	SB-001	0-2	No QC Issues				
13A0643	1273752	13A0643-30	SB-001	4-6	No QC Issues				
13A0643	1273752	13A0643-30RE1	SB-001	4-6	No QC Issues				
13A0643	1273756	13A0643-34	MW-01	2-4	No QC Issues				
13A0643	1273756	13A0643-34RE1	MW-01	2-4	No QC Issues				
13A0643	1273759	13A0643-37	MW-01	8-10	No QC Issues				
13A0643	1273759	13A0643-37RE1	MW-01	8-10	No QC Issues				
13A0643	1273768	13A0643-39	SB-003	0-0.5	4,4'-DDT	Matrix Spike / Duplicate RPD	31.6%	non-directional	
13A0643	1273768	13A0643-39	SB-003	0-0.5	Endrin Ketone	Matrix Spike / Duplicate RPD	32.8%	non-directional	
13A0643	1273768	13A0643-39RE1	SB-003	0-0.5	No QC Issues				
13A0643	1273769	13A0643-40	SB-003	0.5-2	No QC Issues				
13A0643	1273769	13A0643-40RE1	SB-003	0.5-2	No QC Issues				
13A0643	1273770	13A0643-41	SB-005	0-0.5	Dicamba	Laboratory Control Sample	142%	High	
13A0643	1273770	13A0643-41RE1	SB-005	0-0.5	No QC Issues				



## DEEP Reasonable Confidence Protocol - Data Quality Assessment Worksheet

**Laboratory:** Contest Analytical Laboratory  
**Project:** Phase II ESA - 240 Oral School Road, Mystic CT  
**Commission #** 18HM301  
**SDG:** 13A0643  
**Date Samples Collected** 1/24/2013  
**RCP Certification Form Included:** Yes  
**Laboratory Case Narrative Included:** Yes



**Note 1:** Initial and continuing calibration QC non-conformances have been evaluated but are not included in the following DQA spreadsheet.  
**Note 2:** Bias High: reported result may be lower, RLs are accepted as reported.  
 Bias Low: reported result may be higher, RLs may be higher.

SDG	SAMPLE #	Lab #	Location ID	Depth (ft)	COMPOUND	QC PARAMETER	QC OUTLIER (%R / %D / RPD / RSD) Blank Contamination	BIAS	COMMENTS
13A0643	1273771	13A0643-42	SB-005	0.5-2	Dicamba	Laboratory Control Sample	142%	High	
13A0643	1273773	13A0643-44	SB-005	4-6	No QC Issues				
13A0643	1273775	13A0643-46	MW-02	0-0.5	Dicamba	Laboratory Control Sample	142%	High	
13A0643	1273778	13A0643-49	MW-02	4-6	No QC Issues				
13A0643	1273781	13A0643-52	SB-008	0-0.5	Dicamba	Laboratory Control Sample	142%	High	
13A0643	1273782	13A0643-53	SB-008	0.5-2	1,2,3-Trichlorobenzene	Internal Standard	<50%	High	IS area <50%, results may be bias high, confirmed by reanalysis
13A0643	1273782	13A0643-53	SB-008	0.5-2	1,2,4-Trichlorobenzene	Internal Standard	<50%	High	IS area <50%, results may be bias high, confirmed by reanalysis
13A0643	1273782	13A0643-53	SB-008	0.5-2	1,2,4-Trimethylbenzene	Internal Standard	<50%	High	IS area <50%, results may be bias high, confirmed by reanalysis
13A0643	1273782	13A0643-53	SB-008	0.5-2	1,2-Dibromo-3-chloropropane (DBCP)	Internal Standard	<50%	High	IS area <50%, results may be bias high, confirmed by reanalysis
13A0643	1273782	13A0643-53	SB-008	0.5-2	1,2-Dichlorobenzene	Internal Standard	<50%	High	IS area <50%, results may be bias high, confirmed by reanalysis
13A0643	1273782	13A0643-53	SB-008	0.5-2	1,3-Dichlorobenzene	Internal Standard	<50%	High	IS area <50%, results may be bias high, confirmed by reanalysis
13A0643	1273782	13A0643-53	SB-008	0.5-2	1,4-Dichlorobenzene	Internal Standard	<50%	High	IS area <50%, results may be bias high, confirmed by reanalysis
13A0643	1273782	13A0643-53	SB-008	0.5-2	Hexachlorobutadiene	Internal Standard	<50%	High	IS area <50%, results may be bias high, confirmed by reanalysis
13A0643	1273782	13A0643-53	SB-008	0.5-2	Naphthalene	Internal Standard	<50%	High	IS area <50%, results may be bias high, confirmed by reanalysis
13A0643	1273782	13A0643-53	SB-008	0.5-2	n-Butylbenzene	Internal Standard	<50%	High	IS area <50%, results may be bias high, confirmed by reanalysis
13A0643	1273782	13A0643-53	SB-008	0.5-2	p-Isopropyltoluene	Internal Standard	<50%	High	IS area <50%, results may be bias high, confirmed by reanalysis
13A0643	1273782	13A0643-53	SB-008	0.5-2	sec-Butylbenzene	Internal Standard	<50%	High	IS area <50%, results may be bias high, confirmed by reanalysis
13A0643	1273782	13A0643-53	SB-008	0.5-2	tert-Butylbenzene	Internal Standard	<50%	High	IS area <50%, results may be bias high, confirmed by reanalysis
13A0643	1273782	13A0643-53	SB-008	0.5-2	CT ETPH	Surrogate Recovery	0%	NA	Surrogate diluted out
13A0643	1273782	13A0643-53RE1	SB-008	0.5-2	1,2,3-Trichlorobenzene	Internal Standard	<50%	High	confirmational analysis
13A0643	1273782	13A0643-53RE1	SB-008	0.5-2	1,2,4-Trichlorobenzene	Internal Standard	<50%	High	confirmational analysis



## DEEP Reasonable Confidence Protocol - Data Quality Assessment Worksheet



**Laboratory:** Contest Analytical Laboratory  
**Project:** Phase II ESA - 240 Oral School Road, Mystic CT  
**Commission #** 18HM301  
**SDG:** 13A0643  
**Date Samples Collected** 1/24/2013  
**RCP Certification Form Included:** Yes  
**Laboratory Case Narrative Included:** Yes

**Note 1:** Initial and continuing calibration QC non-conformances have been evaluated but are not included in the following DQA spreadsheet.  
**Note 2:** Bias High: reported result may be lower, RLs are accepted as reported.  
 Bias Low: reported result may be higher, RLs may be higher.

SDG	SAMPLE #	Lab #	Location ID	Depth (ft)	COMPOUND	QC PARAMETER	QC OUTLIER (%R / %D / RPD / RSD) Blank Contamination	BIAS	COMMENTS
13A0643	1273782	13A0643-53RE1	SB-008	0.5-2	1,2,4-Trimethylbenzene	Internal Standard	<50%	High	confirmational analysis
13A0643	1273782	13A0643-53RE1	SB-008	0.5-2	1,2-Dibromo-3-chloropropane (DBCP)	Internal Standard	<50%	High	confirmational analysis
13A0643	1273782	13A0643-53RE1	SB-008	0.5-2	1,2-Dichlorobenzene	Internal Standard	<50%	High	confirmational analysis
13A0643	1273782	13A0643-53RE1	SB-008	0.5-2	1,3-Dichlorobenzene	Internal Standard	<50%	High	confirmational analysis
13A0643	1273782	13A0643-53RE1	SB-008	0.5-2	1,4-Dichlorobenzene	Internal Standard	<50%	High	confirmational analysis
13A0643	1273782	13A0643-53RE1	SB-008	0.5-2	Hexachlorobutadiene	Internal Standard	<50%	High	confirmational analysis
13A0643	1273782	13A0643-53RE1	SB-008	0.5-2	Naphthalene	Internal Standard	<50%	High	confirmational analysis
13A0643	1273782	13A0643-53RE1	SB-008	0.5-2	n-Butylbenzene	Internal Standard	<50%	High	confirmational analysis
13A0643	1273782	13A0643-53RE1	SB-008	0.5-2	p-Isopropyltoluene	Internal Standard	<50%	High	confirmational analysis
13A0643	1273782	13A0643-53RE1	SB-008	0.5-2	sec-Butylbenzene	Internal Standard	<50%	High	confirmational analysis
13A0643	1273782	13A0643-53RE1	SB-008	0.5-2	tert-Butylbenzene	Internal Standard	<50%	High	confirmational analysis
13A0643	1273935	13A0643-55	EQUIPMENT	NA	Bromomethane	Laboratory Control Sample	156%	High	
13A0643	1273935	13A0643-55	EQUIPMENT	NA	2-Hexanone (MBK)	Laboratory Control Sample	132%	High	
13A0643	1273935	13A0643-55	EQUIPMENT	NA	Acenaphthylene	Laboratory Control Sample	151%	High	
13A0643	1273936	13A0643-57	EQUIPMENT	NA	Bromomethane	Laboratory Control Sample	156%	High	
13A0643	1273936	13A0643-57	EQUIPMENT	NA	2-Hexanone (MBK)	Laboratory Control Sample	132%	High	
13A0643	1273936	13A0643-57	EQUIPMENT	NA	Acenaphthylene	Laboratory Control Sample	151%	High	



## DEEP Reasonable Confidence Protocol - Data Quality Assessment Worksheet

**Laboratory:** Contest Analytical Laboratory  
**Project:** Phase II ESA - 240 Oral School Road, Mystic CT  
**Commission #** 18HM301  
**SDG:** 13A0687  
**Date Samples Collected** 1/25/2013  
**RCP Certification Form Included:** Yes  
**Laboratory Case Narrative Included:** Yes



**Note 1:** Initial and continuing calibration QC non-conformances have been evaluated but are not included in the following DQA spreadsheet.  
**Note 2:** Bias High: reported result may be lower, RLs are accepted as reported.  
 Bias Low: reported result may be higher, RLs may be higher.

SDG	SAMPLE #	Lab #	Location ID	Depth (ft)	COMPOUND	QC PARAMETER	QC OUTLIER (%R / %D / RPD / RSD) Blank Contamination	BIAS	COMMENTS
13A0687	1273800	13A0687-01	SB-022	0-0.5	Bromomethane	Laboratory Control Sample	160%	High	Sample result ND
13A0687	1273800	13A0687-01	SB-022	0-0.5	Carbon Tetrachloride	Laboratory Control Sample	156%	High	Sample result ND
13A0687	1273800	13A0687-01	SB-022	0-0.5	Naphthalene	Laboratory Control Sample	69.7%	Low	
13A0687	1273800	13A0687-01	SB-022	0-0.5	Acetone	Matrix Spike / Duplicate	68.0%	Low	
13A0687	1273800	13A0687-01	SB-022	0-0.5	2-Butanone (MEK)	Matrix Spike / Duplicate	69.2%	Low	
13A0687	1273800	13A0687-01	SB-022	0-0.5	Dichlorodifluoromethane (Freon 12)	Matrix Spike / Duplicate	66.6%	Low	
13A0687	1273800	13A0687-01	SB-022	0-0.5	2-Hexanone (MBK)	Matrix Spike / Duplicate	66.9%	Low	
13A0687	1273800	13A0687-01	SB-022	0-0.5	Methylene Chloride	Matrix Spike / Duplicate	179%	High	Sample result ND
13A0687	1273800	13A0687-01	SB-022	0-0.5	Naphthalene	Matrix Spike / Duplicate	46.6%	Low	
13A0687	1273800	13A0687-01	SB-022	0-0.5	1,2,3-Trichlorobenzene	Matrix Spike / Duplicate	64.4%	Low	
13A0687	1273800	13A0687-01	SB-022	0-0.5	1,2,4-Trichlorobenzene	Matrix Spike / Duplicate	68.4%	Low	
13A0687	1273800	13A0687-01	SB-022	0-0.5	Methoxychlor	Matrix Spike	40.2%	Low	
13A0687	1273804	13A0687-02	SB-022	0.5-2	Bromomethane	Laboratory Control Sample	160%	High	Sample result ND
13A0687	1273804	13A0687-02	SB-022	0.5-2	Carbon Tetrachloride	Laboratory Control Sample	156%	High	Sample result ND
13A0687	1273804	13A0687-02	SB-022	0.5-2	Naphthalene	Laboratory Control Sample	69.7%	Low	
13A0687	1273805	13A0687-03	SB-023	0-0.5	Bromomethane	Laboratory Control Sample	160%	High	Sample result ND
13A0687	1273805	13A0687-03	SB-023	0-0.5	Carbon Tetrachloride	Laboratory Control Sample	156%	High	Sample result ND
13A0687	1273805	13A0687-03	SB-023	0-0.5	Naphthalene	Laboratory Control Sample	69.7%	Low	
13A0687	1273805	13A0687-03	SB-023	0-0.5	Copper	Method Blank Contamination	0.52 mg/kg	High	Data not affected since sample result >10x blank level
13A0687	1273805	13A0687-03	SB-023	0-0.5	Lead	Laboratory Duplicate Sample	59.2%	Low	
13A0687	1273805	13A0687-03	SB-023	0-0.5	Mercury	Laboratory Control Sample	136%	High	
13A0687	1273805	13A0687-03RE1	SB-023	0-0.5	No QC Issues				
13A0687	1273806	13A0687-04	SB-023	0.5-2	Bromomethane	Laboratory Control Sample	160%	High	Sample result ND
13A0687	1273806	13A0687-04	SB-023	0.5-2	Carbon Tetrachloride	Laboratory Control Sample	156%	High	Sample result ND
13A0687	1273806	13A0687-04	SB-023	0.5-2	Naphthalene	Laboratory Control Sample	69.7%	Low	
13A0687	1273806	13A0687-04	SB-023	0.5-2	Copper	Method Blank Contamination	0.52 mg/kg	High	Data not affected since sample result >10x blank level
13A0687	1273806	13A0687-04	SB-023	0.5-2	Mercury	Laboratory Control Sample	136%	High	
13A0687	1273807	13A0687-05	SB-029	0-2	Bromomethane	Laboratory Control Sample	160%	High	Sample result ND
13A0687	1273807	13A0687-05	SB-029	0-2	Carbon Tetrachloride	Laboratory Control Sample	156%	High	Sample result ND
13A0687	1273807	13A0687-05	SB-029	0-2	Naphthalene	Laboratory Control Sample	69.7%	Low	
13A0687	1273807	13A0687-05	SB-029	0-2	Lead	Laboratory Control Sample	80.5%	Low	
13A0687	1273807	13A0687-05	SB-029	0-2	Mercury	Laboratory Control Sample	136%	High	
13A0687	1273808	13A0687-06	SB-028	0-2	Bromomethane	Laboratory Control Sample	160%	High	Sample result ND



## DEEP Reasonable Confidence Protocol - Data Quality Assessment Worksheet

**Laboratory:** Contest Analytical Laboratory  
**Project:** Phase II ESA - 240 Oral School Road, Mystic CT  
**Commission #** 18HM301  
**SDG:** 13A0687  
**Date Samples Collected** 1/25/2013  
**RCP Certification Form Included:** Yes  
**Laboratory Case Narrative Included:** Yes



**Note 1:** Initial and continuing calibration QC non-conformances have been evaluated but are not included in the following DQA spreadsheet.  
**Note 2:** Bias High: reported result may be lower, RLs are accepted as reported.  
 Bias Low: reported result may be higher, RLs may be higher.

SDG	SAMPLE #	Lab #	Location ID	Depth (ft)	COMPOUND	QC PARAMETER	QC OUTLIER (%R / %D / RPD / RSD) Blank Contamination	BIAS	COMMENTS
13A0687	1273808	13A0687-06	SB-028	0-2	Carbon Tetrachloride	Laboratory Control Sample	156%	High	Sample result ND
13A0687	1273808	13A0687-06	SB-028	0-2	Naphthalene	Laboratory Control Sample	69.7%	Low	
13A0687	1273808	13A0687-06	SB-028	0-2	Benzo(g,h,i)perylene	Matrix Spike Duplicate	45.5%	Low	
13A0687	1273808	13A0687-06	SB-028	0-2	Dibenz(a,h)anthracene	Matrix Spike Duplicate	35.6%	Low	
13A0687	1273808	13A0687-06	SB-028	0-2	Indeno(1,2,3-cd)pyrene	Matrix Spike Duplicate	36.8%	Low	
13A0687	1273808	13A0687-06	SB-028	0-2	Lead	Laboratory Control Sample	80.5%	Low	
13A0687	1273808	13A0687-06	SB-028	0-2	Mercury	Laboratory Control Sample	136%	High	
13A0687	1273810	13A0687-08	SB-028	4-5.5	Bromomethane	Laboratory Control Sample	160%	High	Sample result ND
13A0687	1273810	13A0687-08	SB-028	4-5.5	Carbon Tetrachloride	Laboratory Control Sample	156%	High	Sample result ND
13A0687	1273810	13A0687-08	SB-028	4-5.5	Naphthalene	Laboratory Control Sample	69.7%	Low	
13A0687	1273810	13A0687-08	SB-028	4-5.5	Lead	Laboratory Control Sample	80.5%	Low	
13A0687	1273810	13A0687-08	SB-028	4-5.5	Mercury	Laboratory Control Sample	136%	High	
13A0687	1273811	13A0687-09	SB-040	0-0.5	Bromomethane	Laboratory Control Sample	160%	High	Sample result ND
13A0687	1273811	13A0687-09	SB-040	0-0.5	Carbon Tetrachloride	Laboratory Control Sample	156%	High	Sample result ND
13A0687	1273811	13A0687-09	SB-040	0-0.5	Naphthalene	Laboratory Control Sample	69.7%	Low	
13A0687	1273811	13A0687-09	SB-040	0-0.5	Lead	Laboratory Control Sample	80.5%	Low	
13A0687	1273811	13A0687-09	SB-040	0-0.5	Mercury	Laboratory Control Sample	136%	High	
13A0687	1273811	13A0687-09RE1	SB-040	0-0.5	No QC Issues				
13A0687	1273812	13A0687-10	SB-040	0.5-2	Bromomethane	Laboratory Control Sample	160%	High	Sample result ND
13A0687	1273812	13A0687-10	SB-040	0.5-2	Carbon Tetrachloride	Laboratory Control Sample	156%	High	Sample result ND
13A0687	1273812	13A0687-10	SB-040	0.5-2	Naphthalene	Laboratory Control Sample	69.7%	Low	
13A0687	1273812	13A0687-10	SB-040	0.5-2	Lead	Laboratory Control Sample	80.5%	Low	
13A0687	1273812	13A0687-10	SB-040	0.5-2	Mercury	Laboratory Control Sample	136%	High	
13A0687	1273813	13A0687-11	SB-041	0-0.5	Bromomethane	Laboratory Control Sample	160%	High	Sample result ND
13A0687	1273813	13A0687-11	SB-041	0-0.5	Carbon Tetrachloride	Laboratory Control Sample	156%	High	Sample result ND
13A0687	1273813	13A0687-11	SB-041	0-0.5	Naphthalene	Laboratory Control Sample	69.7%	Low	
13A0687	1273813	13A0687-11	SB-041	0-0.5	Lead	Laboratory Control Sample	80.5%	Low	
13A0687	1273813	13A0687-11	SB-041	0-0.5	Mercury	Laboratory Control Sample	136%	High	
13A0687	1273814	13A0687-12	SB-041	0.5-2	Bromomethane	Laboratory Control Sample	160%	High	Sample result ND
13A0687	1273814	13A0687-12	SB-041	0.5-2	Carbon Tetrachloride	Laboratory Control Sample	156%	High	Sample result ND
13A0687	1273814	13A0687-12	SB-041	0.5-2	Naphthalene	Laboratory Control Sample	69.7%	Low	
13A0687	1273814	13A0687-12	SB-041	0.5-2	Lead	Laboratory Control Sample	80.5%	Low	
13A0687	1273814	13A0687-12	SB-041	0.5-2	Mercury	Laboratory Control Sample	136%	High	
13A0687	1273815	13A0687-13	SB-043	0-2	Bromomethane	Laboratory Control Sample	160%	High	Sample result ND



## DEEP Reasonable Confidence Protocol - Data Quality Assessment Worksheet



**Laboratory:** Contest Analytical Laboratory  
**Project:** Phase II ESA - 240 Oral School Road, Mystic CT  
**Commission #** 18HM301  
**SDG:** 13A0687  
**Date Samples Collected** 1/25/2013  
**RCP Certification Form Included:** Yes  
**Laboratory Case Narrative Included:** Yes

**Note 1:** Initial and continuing calibration QC non-conformances have been evaluated but are not included in the following DQA spreadsheet.

**Note 2:** Bias High: reported result may be lower, RLs are accepted as reported.

Bias Low: reported result may be higher, RLs may be higher.

SDG	SAMPLE #	Lab #	Location ID	Depth (ft)	COMPOUND	QC PARAMETER	QC OUTLIER (%R / %D / RPD / RSD) Blank Contamination	BIAS	COMMENTS
13A0687	1273815	13A0687-13	SB-043	0-2	Carbon Tetrachloride	Laboratory Control Sample	156%	High	Sample result ND
13A0687	1273815	13A0687-13	SB-043	0-2	Naphthalene	Laboratory Control Sample	69.7%	Low	
13A0687	1273815	13A0687-13	SB-043	0-2	Lead	Laboratory Control Sample	80.5%	Low	
13A0687	1273815	13A0687-13	SB-043	0-2	Mercury	Laboratory Control Sample	136%	High	
13A0687	1273816	13A0687-14	SB-043	0-2	Bromomethane	Laboratory Control Sample	160%	High	Sample result ND
13A0687	1273816	13A0687-14	SB-043	0-2	Carbon Tetrachloride	Laboratory Control Sample	156%	High	Sample result ND
13A0687	1273816	13A0687-14	SB-043	0-2	Naphthalene	Laboratory Control Sample	61.3%	Low	
13A0687	1273816	13A0687-14	SB-043	0-2	Lead	Laboratory Control Sample	80.5%	Low	
13A0687	1273816	13A0687-14	SB-043	0-2	Mercury	Laboratory Control Sample	136%	High	
13A0687	1273819	13A0687-17	SB-043	6-8	Carbon Tetrachloride	Laboratory Control Sample	147%	High	Sample result ND
13A0687	1273819	13A0687-17	SB-043	6-8	Naphthalene	Laboratory Control Sample	61.3%	High	Sample result ND
13A0687	1273819	13A0687-17	SB-043	6-8	Lead	Laboratory Control Sample	80.5%	Low	
13A0687	1273819	13A0687-17	SB-043	6-8	Mercury	Laboratory Control Sample	136%	High	
13A0687	1273824	13A0687-22	SB-042	0-2.5	Carbon Tetrachloride	Laboratory Control Sample	147%	High	Sample result ND
13A0687	1273824	13A0687-22	SB-042	0-2.5	Naphthalene	Laboratory Control Sample	61.3%	Low	Sample result ND
13A0687	1273824	13A0687-22	SB-042	0-2.5	Lead	Laboratory Control Sample	80.5%	Low	
13A0687	1273824	13A0687-22	SB-042	0-2.5	Mercury	Laboratory Control Sample	136%	High	
13A0687	1273828	13A0687-23	SB-042	0-2.5	Carbon Tetrachloride	Laboratory Control Sample	147%	High	Sample result ND
13A0687	1273828	13A0687-23	SB-042	0-2.5	Naphthalene	Laboratory Control Sample	61.3%	Low	Sample result ND
13A0687	1273828	13A0687-23	SB-042	0-2.5	Lead	Laboratory Control Sample	80.5%	Low	
13A0687	1273828	13A0687-23	SB-042	0-2.5	Mercury	Laboratory Control Sample	136%	High	
13A0687	1273825	13A0687-24	SB-048	0-2	No QC Issues				
13A0687	1273826	13A0687-25	SB-049	0-2	No QC Issues				
13A0687	1273827	13A0687-26	SB-050	0-2	No QC Issues				
13A0687	1273931	13A0687-27	TRIP BLANK	NA	Carbon Tetrachloride	Laboratory Control Sample	147%	High	
13A0687	1273931	13A0687-27	TRIP BLANK	NA	Naphthalene	Laboratory Control Sample	61.3%	Low	
13A0687	1273934	13A0687-28	EQUIPMENT	NA	Bromomethane	Laboratory Control Sample	160%	High	Sample result ND
13A0687	1273934	13A0687-30	EQUIPMENT	NA	Bromomethane	Laboratory Control Sample	160%	High	Sample result ND
13A0687	1273801	13A0687-38	SB-014	0-2	Lead	Laboratory Control Sample	80.5%	Low	



## DEEP Reasonable Confidence Protocol - Data Quality Assessment Worksheet

**Laboratory:** Contest Analytical Laboratory  
**Project:** Phase II ESA - 240 Oral School Road, Mystic CT  
**Commission #** 18HM301  
**SDG:** 13A0687  
**Date Samples Collected** 1/25/2013  
**RCP Certification Form Included:** Yes  
**Laboratory Case Narrative Included:** Yes



**Note 1:** Initial and continuing calibration QC non-conformances have been evaluated but are not included in the following DQA spreadsheet.  
**Note 2:** Bias High: reported result may be lower, RLs are accepted as reported.  
 Bias Low: reported result may be higher, RLs may be higher.

SDG	SAMPLE #	Lab #	Location ID	Depth (ft)	COMPOUND	QC PARAMETER	QC OUTLIER (%R / %D / RPD / RSD) Blank Contamination	BIAS	COMMENTS
13A0687	1273801	13A0687-38	SB-014	0-2	Mercury	Laboratory Control Sample	136%	High	
13A0687	1273802	13A0687-39	SB-015	0-2	Lead	Laboratory Control Sample	80.5%	Low	
13A0687	1273802	13A0687-39	SB-015	0-2	Mercury	Laboratory Control Sample	136%	High	
13A0687	1273803	13A0687-40	SB-016	0-2	Lead	Laboratory Control Sample	80.5%	Low	
13A0687	1273803	13A0687-40	SB-016	0-2	Mercury	Laboratory Control Sample	136%	High	



## DEEP Reasonable Confidence Protocol - Data Quality Assessment Worksheet

Laboratory: Contest Analytical Laboratory  
 Project: Phase II ESA - 240 Oral School Road, Mystic CT  
 Commission #: 18HM301  
 SDG: 13A0744  
 Date Samples Collected: 1/28/2013  
 RCP Certification Form Included: Yes  
 Laboratory Case Narrative Included: Yes



Note 1: Initial and continuing calibration QC non-conformances have been evaluated but are not included in the following DQA spreadsheet.  
 Note 2: Bias High: reported result may be lower, RLs are accepted as reported.  
 Bias Low: reported result may be higher, RLs may be higher.

SDG	SAMPLE #	Lab #	Location ID	Depth (ft)	COMPOUND	QC PARAMETER	QC OUTLIER (%R / %D / RPD / RSD) Blank Contamination	BIAS	COMMENTS
13A0744	1273932	13A0744-01	TRIP BLANK	NA	No QC Issues				
13A0744	1273930	13A0744-02	EQUIPMENT	NA	Chloromethane	Laboratory Control Sample	56.7%	Low	
13A0744	1273930	13A0744-02	EQUIPMENT	NA	trans-1,4-Dichloro-2-butene	Laboratory Control Sample	66.5%	Low	
13A0744	1273930	13A0744-02	EQUIPMENT	NA	Benzo(a)anthracene	Method Blank Contamination	0.080 ug/kg	High	
13A0744	1273930	13A0744-02	EQUIPMENT	NA	Benzo(b)fluoranthene	Method Blank Contamination	0.090 ug/kg	High	
13A0744	1273930	13A0744-02	EQUIPMENT	NA	Phenanthrene	Method Blank Contamination	0.37 ug/kg	High	
13A0744	1273930	13A0744-02RE1	EQUIPMENT	NA	All VOCs	Holding Time		Low	Extracted one day outside holding time
13A0744	1273853	13A0744-04	SB-061	0-1.8	Bromoform	Matrix Spike	69.2%	Low	
13A0744	1273853	13A0744-04	SB-061	0-1.8	Carbon Disulfide	Matrix Spike	66.3%	Low	
13A0744	1273853	13A0744-04	SB-061	0-1.8	Chloromethane	Matrix Spike	65.4%	Low	
13A0744	1273853	13A0744-04	SB-061	0-1.8	1,2-Dibromo-3-chloropropane (DBCP)	Matrix Spike	63.6%	Low	
13A0744	1273853	13A0744-04	SB-061	0-1.8	trans-1,4-Dichloro-2-butene	Matrix Spike	68.0%	Low	
13A0744	1273853	13A0744-04	SB-061	0-1.8	Dichlorodifluoromethane (Freon 12)	Matrix Spike	52.0%	Low	
13A0744	1273853	13A0744-04	SB-061	0-1.8	2,2-Dichloropropane	Matrix Spike	69.3%	Low	
13A0744	1273853	13A0744-04	SB-061	0-1.8	cis-1,3-Dichloropropene	Matrix Spike	68.5%	Low	
13A0744	1273853	13A0744-04	SB-061	0-1.8	trans-1,3-Dichloropropene	Matrix Spike	69.5%	Low	
13A0744	1273853	13A0744-04	SB-061	0-1.8	Naphthalene	Matrix Spike	59.1%	Low	
13A0744	1273853	13A0744-04	SB-061	0-1.8	1,1,2,2-Tetrachloroethane	Matrix Spike	63.2%	Low	
13A0744	1273853	13A0744-04	SB-061	0-1.8	Tetrahydrofuran	Matrix Spike	64.6%	Low	
13A0744	1273853	13A0744-04	SB-061	0-1.8	1,2,3-Trichlorobenzene	Matrix Spike	59.9%	Low	
13A0744	1273853	13A0744-04	SB-061	0-1.8	1,2,4-Trichlorobenzene	Matrix Spike	56.3%	Low	
13A0744	1273853	13A0744-04	SB-061	0-1.8	Vinyl Chloride	Matrix Spike	62.8%	Low	
13A0744	1273853	13A0744-04	SB-061	0-1.8	Lead	Reporting Limit	125%	High	The RL verification outside QC limits. Result at or near the DL may be bias high
13A0744	1273854	13A0744-05	SB-059	0-2	CT ETPH	Matrix Spike Duplicate (RPD)	40.4% (45.4%)	Low	
13A0744	1273854	13A0744-05	SB-059	0-2	Lead	Reporting Limit	125%	High	The RL verification outside QC limits. Result at or near the DL may be bias high
13A0744	1273855	13A0744-06	SB-059	0-2	Lead	Reporting Limit	125%	High	The RL verification outside QC limits. Result at or near the DL may be bias high
13A0744	1273856	13A0744-07	SB-053	0-2	No QC Issues				
13A0744	1273857	13A0744-08	SB-052	0-2	No QC Issues				
13A0744	1273858	13A0744-09	SB-045	0-2	No QC Issues				
13A0744	1273859	13A0744-10	SB-051	0-2	No QC Issues				



## DEEP Reasonable Confidence Protocol - Data Quality Assessment Worksheet

Laboratory: Contest Analytical Laboratory  
 Project: Phase II ESA - 240 Oral School Road, Mystic CT  
 Commission #: 18HM301  
 SDG: 13A0744  
 Date Samples Collected: 1/28/2013  
 RCP Certification Form Included: Yes  
 Laboratory Case Narrative Included: Yes



Note 1: Initial and continuing calibration QC non-conformances have been evaluated but are not included in the following DQA spreadsheet.  
 Note 2: Bias High: reported result may be lower, RLs are accepted as reported.  
 Bias Low: reported result may be higher, RLs may be higher.

SDG	SAMPLE #	Lab #	Location ID	Depth (ft)	COMPOUND	QC PARAMETER	QC OUTLIER (%R / %D / RPD / RSD) Blank Contamination	BIAS	COMMENTS
13A0744	1273830	13A0744-12	MW-03	2-4	No QC Issues				
13A0744	1273831	13A0744-13	MW-03	4-6	1,2,3-Trichlorobenzene	Internal Standard	<50%	High	IS area <50%, results may be bias high, confirmed by reanalysis
13A0744	1273831	13A0744-13	MW-03	4-6	1,2,4-Trichlorobenzene	Internal Standard	<50%	High	IS area <50%, results may be bias high, confirmed by reanalysis
13A0744	1273831	13A0744-13	MW-03	4-6	1,2,4-Trimethylbenzene	Internal Standard	<50%	High	IS area <50%, results may be bias high, confirmed by reanalysis
13A0744	1273831	13A0744-13	MW-03	4-6	1,2-Dibromo-3-chloropropane (DBCP)	Internal Standard	<50%	High	IS area <50%, results may be bias high, confirmed by reanalysis
13A0744	1273831	13A0744-13	MW-03	4-6	1,2-Dichlorobenzene	Internal Standard	<50%	High	IS area <50%, results may be bias high, confirmed by reanalysis
13A0744	1273831	13A0744-13	MW-03	4-6	1,3-Dichlorobenzene	Internal Standard	<50%	High	IS area <50%, results may be bias high, confirmed by reanalysis
13A0744	1273831	13A0744-13	MW-03	4-6	1,4-Dichlorobenzene	Internal Standard	<50%	High	IS area <50%, results may be bias high, confirmed by reanalysis
13A0744	1273831	13A0744-13	MW-03	4-6	Hexachlorobutadiene	Internal Standard	<50%	High	IS area <50%, results may be bias high, confirmed by reanalysis
13A0744	1273831	13A0744-13	MW-03	4-6	Naphthalene	Internal Standard	<50%	High	IS area <50%, results may be bias high, confirmed by reanalysis
13A0744	1273831	13A0744-13	MW-03	4-6	n-Butylbenzene	Internal Standard	<50%	High	IS area <50%, results may be bias high, confirmed by reanalysis
13A0744	1273831	13A0744-13	MW-03	4-6	p-Isopropyltoluene	Internal Standard	<50%	High	IS area <50%, results may be bias high, confirmed by reanalysis
13A0744	1273831	13A0744-13	MW-03	4-6	sec-Butylbenzene	Internal Standard	<50%	High	IS area <50%, results may be bias high, confirmed by reanalysis
13A0744	1273831	13A0744-13	MW-03	4-6	tert-Butylbenzene	Internal Standard	<50%	High	IS area <50%, results may be bias high, confirmed by reanalysis
13A0744	1273831	13A0744-13RE1	MW-03	4-6	Chloromethane	Laboratory Control Sample	69.2%	Low	
13A0744	1273831	13A0744-13RE1	MW-03	4-6	Dichlorodifluoromethane (Freon 12)	Laboratory Control Sample	53.4%	Low	
13A0744	1273831	13A0744-13RE1	MW-03	4-6	Vinyl Chloride	Laboratory Control Sample	66.1%	Low	
13A0744	1273831	13A0744-13RE1	MW-03	4-6	1,2,3-Trichlorobenzene	Internal Standard	<50%	High	confirmational analysis
13A0744	1273831	13A0744-13RE1	MW-03	4-6	1,2,4-Trichlorobenzene	Internal Standard	<50%	High	confirmational analysis
13A0744	1273831	13A0744-13RE1	MW-03	4-6	1,2,4-Trimethylbenzene	Internal Standard	<50%	High	confirmational analysis
13A0744	1273831	13A0744-13RE1	MW-03	4-6	1,2-Dibromo-3-chloropropane (DBCP)	Internal Standard	<50%	High	confirmational analysis
13A0744	1273831	13A0744-13RE1	MW-03	4-6	1,2-Dichlorobenzene	Internal Standard	<50%	High	confirmational analysis
13A0744	1273831	13A0744-13RE1	MW-03	4-6	1,3-Dichlorobenzene	Internal Standard	<50%	High	confirmational analysis
13A0744	1273831	13A0744-13RE1	MW-03	4-6	1,4-Dichlorobenzene	Internal Standard	<50%	High	confirmational analysis
13A0744	1273831	13A0744-13RE1	MW-03	4-6	Hexachlorobutadiene	Internal Standard	<50%	High	confirmational analysis
13A0744	1273831	13A0744-13RE1	MW-03	4-6	Naphthalene	Internal Standard	<50%	High	confirmational analysis
13A0744	1273831	13A0744-13RE1	MW-03	4-6	n-Butylbenzene	Internal Standard	<50%	High	confirmational analysis
13A0744	1273831	13A0744-13RE1	MW-03	4-6	p-Isopropyltoluene	Internal Standard	<50%	High	confirmational analysis
13A0744	1273831	13A0744-13RE1	MW-03	4-6	sec-Butylbenzene	Internal Standard	<50%	High	confirmational analysis



## DEEP Reasonable Confidence Protocol - Data Quality Assessment Worksheet

**Laboratory:** Contest Analytical Laboratory  
**Project:** Phase II ESA - 240 Oral School Road, Mystic CT  
**Commission #** 18HM301  
**SDG:** 13A0744  
**Date Samples Collected** 1/28/2013  
**RCP Certification Form Included:** Yes  
**Laboratory Case Narrative Included:** Yes



**Note 1:** Initial and continuing calibration QC non-conformances have been evaluated but are not included in the following DQA spreadsheet.

**Note 2:** Bias High: reported result may be lower, RLs are accepted as reported.

Bias Low: reported result may be higher, RLs may be higher.

SDG	SAMPLE #	Lab #	Location ID	Depth (ft)	COMPOUND	QC PARAMETER	QC OUTLIER (%R / %D / RPD / RSD) Blank Contamination	BIAS	COMMENTS
13A0744	1273831	13A0744-13RE1	MW-03	4-6	tert-Butylbenzene	Internal Standard	<50%	High	confirmational analysis
13A0744	1273835	13A0744-17	SB-063	0-2	Chloromethane	Laboratory Control Sample	69.2%	Low	
13A0744	1273835	13A0744-17	SB-063	0-2	Dichlorodifluoromethane (Freon 12)	Laboratory Control Sample	53.4%	Low	
13A0744	1273835	13A0744-17	SB-063	0-2	Vinyl Chloride	Laboratory Control Sample	66.1%	Low	
13A0744	1273836	13A0744-18	SB-063	2-4	No QC Issues				
13A0744	1273837	13A0744-19	SB-063	4-6	Chloromethane	Laboratory Control Sample	69.2%	Low	
13A0744	1273837	13A0744-19	SB-063	4-6	Dichlorodifluoromethane (Freon 12)	Laboratory Control Sample	53.4%	Low	
13A0744	1273837	13A0744-19	SB-063	4-6	Vinyl Chloride	Laboratory Control Sample	66.1%	Low	
13A0744	1273838	13A0744-20	SB-063	6-8	Chloromethane	Laboratory Control Sample	69.2%	Low	
13A0744	1273838	13A0744-20	SB-063	6-8	Dichlorodifluoromethane (Freon 12)	Laboratory Control Sample	53.4%	Low	
13A0744	1273838	13A0744-20	SB-063	6-8	Vinyl Chloride	Laboratory Control Sample	66.1%	Low	
13A0744	1273840	13A0744-22	SB-033	2-4	Chloromethane	Laboratory Control Sample	69.2%	Low	
13A0744	1273840	13A0744-22	SB-033	2-4	Dichlorodifluoromethane (Freon 12)	Laboratory Control Sample	53.4%	Low	
13A0744	1273840	13A0744-22	SB-033	2-4	Vinyl Chloride	Laboratory Control Sample	66.1%	Low	
13A0744	1273841	13A0744-23	SB-033	4-6	Chloromethane	Laboratory Control Sample	69.2%	Low	
13A0744	1273841	13A0744-23	SB-033	4-6	Dichlorodifluoromethane (Freon 12)	Laboratory Control Sample	53.4%	Low	
13A0744	1273841	13A0744-23	SB-033	4-6	Vinyl Chloride	Laboratory Control Sample	66.1%	Low	
13A0744	1273844	13A0744-26	SB-032	2-4	Chloromethane	Laboratory Control Sample	69.2%	Low	
13A0744	1273844	13A0744-26	SB-032	2-4	Dichlorodifluoromethane (Freon 12)	Laboratory Control Sample	53.4%	Low	
13A0744	1273844	13A0744-26	SB-032	2-4	Vinyl Chloride	Laboratory Control Sample	66.1%	Low	
13A0744	1273846	13A0744-28	SB-062	2-4	Chloromethane	Laboratory Control Sample	69.2%	Low	
13A0744	1273846	13A0744-28	SB-062	2-4	Dichlorodifluoromethane (Freon 12)	Laboratory Control Sample	53.4%	Low	
13A0744	1273846	13A0744-28	SB-062	2-4	Vinyl Chloride	Laboratory Control Sample	66.1%	Low	
13A0744	1273846	13A0744-28	SB-062	2-4	Lead	Reporting Limit	125%	High	The RL verification outside QC limits. Result at or near the DL may be bias high
13A0744	1273849	13A0744-31	SB-062	8-10	Chloromethane	Laboratory Control Sample	69.2%	Low	
13A0744	1273849	13A0744-31	SB-062	8-10	Dichlorodifluoromethane (Freon 12)	Laboratory Control Sample	53.4%	Low	
13A0744	1273849	13A0744-31	SB-062	8-10	Vinyl Chloride	Laboratory Control Sample	66.1%	Low	
13A0744	1273849	13A0744-31	SB-062	8-10	Lead	Reporting Limit	125%	High	The RL verification outside QC limits. Result at or near the DL may be bias high
13A0744	1273852	13A0744-34	SB-032	6-7.5	Chloromethane	Laboratory Control Sample	69.2%	Low	



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**Commission #** 18HM301  
**SDG:** 13A0744  
**Date Samples Collected** 1/28/2013  
**RCP Certification Form Included:** Yes  
**Laboratory Case Narrative Included:** Yes



**Note 1:** Initial and continuing calibration QC non-conformances have been evaluated but are not included in the following DQA spreadsheet.

**Note 2:** Bias High: reported result may be lower, RLs are accepted as reported.

Bias Low: reported result may be higher, RLs may be higher.

SDG	SAMPLE #	Lab #	Location ID	Depth (ft)	COMPOUND	QC PARAMETER	QC OUTLIER (%R / %D / RPD / RSD) Blank Contamination	BIAS	COMMENTS
13A0744	1273852	13A0744-34	SB-032	6-7.5	Dichlorodifluoromethane (Freon 12)	Laboratory Control Sample	53.4%	Low	
13A0744	1273852	13A0744-34	SB-032	6-7.5	Vinyl Chloride	Laboratory Control Sample	66.1%	Low	
13A0744	1273929	13A0744-35	EQUIPMENT	NA	Chloromethane	Laboratory Control Sample	56.7%	Low	
13A0744	1273929	13A0744-35	EQUIPMENT	NA	trans-1,4-Dichloro-2-butene	Laboratory Control Sample	66.5%	Low	
13A0744	1273929	13A0744-35	EQUIPMENT	NA	Chloromethane	Continuing Calibration		Low	
13A0744	1273929	13A0744-35	EQUIPMENT	NA	Benzo(a)anthracene	Method Blank Contamination	0.080 ug/kg	High	Sample result ND
13A0744	1273929	13A0744-35	EQUIPMENT	NA	Benzo(b)fluoranthene	Method Blank Contamination	0.090 ug/kg	High	Sample result ND
13A0744	1273929	13A0744-35	EQUIPMENT	NA	Phenanthrene	Method Blank Contamination	0.37 ug/kg	High	Sample result ND
13A0744	1273860	13A0744-37	SB-045	0-2	Chloromethane	Laboratory Control Sample	69.2%	Low	
13A0744	1273860	13A0744-37	SB-045	0-2	Dichlorodifluoromethane (Freon 12)	Laboratory Control Sample	53.4%	Low	
13A0744	1273860	13A0744-37	SB-045	0-2	Vinyl Chloride	Laboratory Control Sample	66.1%	Low	



## DEEP Reasonable Confidence Protocol - Data Quality Assessment Worksheet



**Laboratory:** Contest Analytical Laboratory  
**Project:** Phase II ESA - 240 Oral School Road, Mystic CT  
**Commission #** 18HM301  
**SDG:** 13A0745  
**Date Samples Collected** 1/29/2013  
**RCP Certification Form Included:** Yes  
**Laboratory Case Narrative Included:** Yes

**Note 1:** Initial and continuing calibration QC non-conformances have been evaluated but are not included in the following DQA spreadsheet.

**Note 2:** Bias High: reported result may be lower, RLs are accepted as reported.

Bias Low: reported result may be higher, RLs may be higher.

SDG	SAMPLE #	Lab #	Location ID	Depth (ft)	COMPOUND	QC PARAMETER	QC OUTLIER (%R / %D / RPD / RSD) Blank Contamination	BIAS	COMMENTS
13A0745	1273861	13A0745-01	SB-055	0-2	Chloromethane	Laboratory Control Sample	69.2%	Low	
13A0745	1273861	13A0745-01	SB-055	0-2	Dichlorodifluoromethane (Freon 12)	Laboratory Control Sample	53.4%	Low	
13A0745	1273861	13A0745-01	SB-055	0-2	Vinyl Chloride	Laboratory Control Sample	66.1%	Low	
13A0745	1273861	13A0745-01	SB-055	0-2	Benzo(b)fluoranthene	Matrix Spike Duplicate	141%	High	
13A0745	1273861	13A0745-01	SB-055	0-2	Lead	Reporting Limit	125%	High	The RL verification outside QC limits. Result at or near the DL may be bias high
13A0745	1273862	13A0745-02	SB-056	0-2	Chloromethane	Laboratory Control Sample	69.2%	Low	
13A0745	1273862	13A0745-02	SB-056	0-2	Dichlorodifluoromethane (Freon 12)	Laboratory Control Sample	53.4%	Low	
13A0745	1273862	13A0745-02	SB-056	0-2	Vinyl Chloride	Laboratory Control Sample	66.1%	Low	
13A0745	1273862	13A0745-02	SB-056	0-2	Lead	Reporting Limit	125%	High	The RL verification outside QC limits. Result at or near the DL may be bias high
13A0745	1273863	13A0745-03	SB-009	0-1	Chloromethane	Laboratory Control Sample	69.2%	Low	
13A0745	1273863	13A0745-03	SB-009	0-1	Dichlorodifluoromethane (Freon 12)	Laboratory Control Sample	53.4%	Low	
13A0745	1273863	13A0745-03	SB-009	0-1	Vinyl Chloride	Laboratory Control Sample	66.1%	Low	
13A0745	1273863	13A0745-03	SB-009	0-1	Lead	Reporting Limit	125%	High	The RL verification outside QC limits. Result at or near the DL may be bias high
13A0745	1273864	13A0745-04	SB-010	0-1.8	Chloromethane	Laboratory Control Sample	69.2%	Low	
13A0745	1273864	13A0745-04	SB-010	0-1.8	Dichlorodifluoromethane (Freon 12)	Laboratory Control Sample	53.4%	Low	
13A0745	1273864	13A0745-04	SB-010	0-1.8	Vinyl Chloride	Laboratory Control Sample	66.1%	Low	
13A0745	1273864	13A0745-04	SB-010	0-1.8	Lead	Reporting Limit	125%	High	The RL verification outside QC limits. Result at or near the DL may be bias high
13A0745	1273865	13A0745-05	SB-011	0-1.5	Chloromethane	Laboratory Control Sample	69.2%	Low	
13A0745	1273865	13A0745-05	SB-011	0-1.5	Dichlorodifluoromethane (Freon 12)	Laboratory Control Sample	53.4%	Low	
13A0745	1273865	13A0745-05	SB-011	0-1.5	Vinyl Chloride	Laboratory Control Sample	66.1%	Low	
13A0745	1273865	13A0745-05	SB-011	0-1.5	Lead	Reporting Limit	125%	High	The RL verification outside QC limits. Result at or near the DL may be bias high
13A0745	1273866	13A0745-06	SB-012	0-2	Chloromethane	Laboratory Control Sample	69.2%	Low	
13A0745	1273866	13A0745-06	SB-012	0-2	Dichlorodifluoromethane (Freon 12)	Laboratory Control Sample	53.4%	Low	
13A0745	1273866	13A0745-06	SB-012	0-2	Vinyl Chloride	Laboratory Control Sample	66.1%	Low	
13A0745	1273866	13A0745-06	SB-012	0-2	Lead	Reporting Limit	125%	High	The RL verification outside QC limits. Result at or near the DL may be bias high
13A0745	1273867	13A0745-07	SB-038	0-2	Chloromethane	Laboratory Control Sample	69.2%	Low	
13A0745	1273867	13A0745-07	SB-038	0-2	Dichlorodifluoromethane (Freon 12)	Laboratory Control Sample	53.4%	Low	
13A0745	1273867	13A0745-07	SB-038	0-2	Vinyl Chloride	Laboratory Control Sample	66.1%	Low	
13A0745	1273867	13A0745-07	SB-038	0-2	Lead	Reporting Limit	125%	High	The RL verification outside QC limits. Result at or near the DL may be bias high
13A0745	1273867	13A0745-07	SB-038	0-2	CT ETPH	Surrogate Recovery	0%	NA	Surrogate diluted out



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**Laboratory:** Contest Analytical Laboratory  
**Project:** Phase II ESA - 240 Oral School Road, Mystic CT  
**Commission #** 18HM301  
**SDG:** 13A0745  
**Date Samples Collected** 1/29/2013  
**RCP Certification Form Included:** Yes  
**Laboratory Case Narrative Included:** Yes

**Note 1:** Initial and continuing calibration QC non-conformances have been evaluated but are not included in the following DQA spreadsheet.  
**Note 2:** Bias High: reported result may be lower, RLs are accepted as reported.  
 Bias Low: reported result may be higher, RLs may be higher.

SDG	SAMPLE #	Lab #	Location ID	Depth (ft)	COMPOUND	QC PARAMETER	QC OUTLIER (%R / %D / RPD / RSD) Blank Contamination	BIAS	COMMENTS
13A0745	1273868	13A0745-08	SB-038	0-2	Chloromethane	Laboratory Control Sample	69.2%	Low	
13A0745	1273868	13A0745-08	SB-038	0-2	Dichlorodifluoromethane (Freon 12)	Laboratory Control Sample	53.4%	Low	
13A0745	1273868	13A0745-08	SB-038	0-2	Vinyl Chloride	Laboratory Control Sample	66.1%	Low	
13A0745	1273868	13A0745-08	SB-038	0-2	Lead	Reporting Limit	125%	High	The RL verification outside QC limits. Result at or near the DL may be bias high
13A0745	1273868	13A0745-08	SB-038	0-2	CT ETPH	Surrogate Recovery	0%	NA	Surrogate diluted out
13A0745	1273869	13A0745-09	SB-037	0-2	Chloromethane	Laboratory Control Sample	69.2%	Low	
13A0745	1273869	13A0745-09	SB-037	0-2	Dichlorodifluoromethane (Freon 12)	Laboratory Control Sample	53.4%	Low	
13A0745	1273869	13A0745-09	SB-037	0-2	Vinyl Chloride	Laboratory Control Sample	66.1%	Low	
13A0745	1273870	13A0745-10	SB-058	0-2	Chloromethane	Laboratory Control Sample	69.2%	Low	
13A0745	1273870	13A0745-10	SB-058	0-2	Dichlorodifluoromethane (Freon 12)	Laboratory Control Sample	53.4%	Low	
13A0745	1273870	13A0745-10	SB-058	0-2	Vinyl Chloride	Laboratory Control Sample	66.1%	Low	
13A0745	1273870	13A0745-10	SB-058	0-2	Lead	Reporting Limit	125%	High	The RL verification outside QC limits. Result at or near the DL may be bias high
13A0745	1273927	13A0745-12	EQUIPMENT	NA	Chloromethane	Laboratory Control Sample	56.7%	Low	
13A0745	1273927	13A0745-12	EQUIPMENT	NA	trans-1,4-Dichloro-2-butene	Laboratory Control Sample	66.5%	Low	
13A0745	1273927	13A0745-12	EQUIPMENT	NA	Benzo(a)anthracene	Method Blank Contamination	0.080 ug/kg	High	Sample result ND
13A0745	1273927	13A0745-12	EQUIPMENT	NA	Benzo(b)fluoranthene	Method Blank Contamination	0.090 ug/kg	High	Sample result ND
13A0745	1273927	13A0745-12	EQUIPMENT	NA	Phenanthrene	Method Blank Contamination	0.37 ug/kg	High	Sample result ND
13A0745	1273928	13A0745-13	TRIP BLANK	NA	No QC Issues				



## DEEP Reasonable Confidence Protocol - Data Quality Assessment Worksheet



**Laboratory:** Contest Analytical Laboratory  
**Project:** Phase II ESA - 240 Oral School Road, Mystic CT  
**Commission #** 18HM301  
**SDG:** 13A0792  
**Date Samples Collected** 1/30/2013  
**RCP Certification Form Included:** Yes  
**Laboratory Case Narrative Included:** Yes

**Note 1:** Initial and continuing calibration QC non-conformances have been evaluated but are not included in the following DQA spreadsheet.

**Note 2:** Bias High: reported result may be lower, RLs are accepted as reported.

Bias Low: reported result may be higher, RLs may be higher.

SDG	SAMPLE #	Lab #	Location ID	Depth (ft)	COMPOUND	QC PARAMETER	QC OUTLIER (%R / %D / RPD / RSD) Blank Contamination	BIAS	COMMENTS
13A0792	1273871	13A0792-01	SB-039	0-2	Bromomethane	Laboratory Control Sample	139%	High	
13A0792	1273871	13A0792-01	SB-039	0-2	Dichlorodifluoromethane (Freon 12)	Matrix Spike	64.2%	Low	
13A0792	1273871	13A0792-01	SB-039	0-2	Methylene Chloride	Matrix Spike	55.2%	Low	
13A0792	1273871	13A0792-01	SB-039	0-2	Naphthalene	Matrix Spike	67.7%	Low	
13A0792	1273871	13A0792-01	SB-039	0-2	All BN SVOCs	Surrogate Recovery	131%	NA	Only one out in fraction
13A0792	1273873	13A0792-03	SB-054	0-2	Bromomethane	Laboratory Control Sample	139%	High	
13A0792	1273874	13A0792-04	TRIP BLANK	NA	Bromomethane	Laboratory Control Sample	139%	High	
13A0792	1273926	13A0792-05	EQUIPMENT	NA	Benzo(a)anthracene	Method Blank Contamination	0.080 ug/kg	High	Sample result ND
13A0792	1273926	13A0792-05	EQUIPMENT	NA	Benzo(b)fluoranthene	Method Blank Contamination	0.090 ug/kg	High	Sample result ND
13A0792	1273926	13A0792-05	EQUIPMENT	NA	Phenanthrene	Method Blank Contamination	0.37 ug/kg	High	Sample result ND



## DEEP Reasonable Confidence Protocol - Data Quality Assessment Worksheet



**Laboratory:** Contest Analytical Laboratory  
**Project:** Phase II ESA - 240 Oral School Road, Mystic CT  
**Commission #** 18HM301  
**SDG:** 13B0120  
**Date Samples Collected** 2/4/2013  
**RCP Certification Form Included:** Yes  
**Laboratory Case Narrative Included:** Yes

**Note 1:** Initial and continuing calibration QC non-conformances have been evaluated but are not included in the following DQA spreadsheet.

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SDG	SAMPLE #	Lab #	Location ID	Depth (ft)	COMPOUND	QC PARAMETER	QC OUTLIER (%R / %D / RPD / RSD) Blank Contamination	BIAS	COMMENTS
13B0120	1273939	13B0120-01	MW-05(SB-36)	GW	No QC Issues				
13B0120	1273942	13B0120-03	MW-05(SB-36)	GW	No QC Issues				
13B0120	1273943	13B0120-05	Boiler Room	GW	No QC Issues				
13B0120	1273946	13B0120-07	EQUIPMENT	NA	No QC Issues				
13B0120	1273947	13B0120-09	TRIP BLANK	NA	No QC Issues				
13B0120	1273940	13B0120-10	MW-04(SB-31)	GW	No QC Issues				
13B0120	1273941	13B0120-12	MW-01	GW	No QC Issues				