TASK 210 Subsurface Site Investigation

Litchfield Maintenance Facility

438 Bantam Road
Litchfield, Connecticut

Prepared for:
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Connecticut Department of Transportation
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Newington, CT 06111

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DIVERSIFIED TECHNOLOGY CONSULTANTS, INC.
NORTH HAVEN, CT NORWICH, CT NEW ROCHELLE, NY ANDOVER, MA

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TASK 210 SUBSURFACE SITE INVESTIGATION

LITCHFIELD MAINTENANCE FACILITY

438 BANTAM ROAD

LITCHFIELD, CONNECTICUT

Ethan A. Stewart
Senior Environmental Scientist

Christopher P. Koelle, L.E.P.
Environmental Project Manager

Richard C. Hathaway, L.E.P.
Manager - Environmental

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1.0 INTRODUCTION

Diversified Technology Consultants, Inc. (DTC) was retained by the State of Connecticut Department of Transportation (ConnDOT) to conduct a Task 210 Subsurface Site Investigation (SSI) of a portion of the Litchfield Maintenance Facility located at 438 Bantam Road in Litchfield, Connecticut. The Task 210 SSI was limited to the area of the current and former tank farm and pump island. This report provides a brief description and environmental history of the site, a discussion of the local environment and receptors, the investigation rationale, a summary of the data obtained during the investigation, an interpretation of the results with respect to the appropriate regulatory criteria, and recommendations.

1.1 Background and Purpose

The subject site consists of a maintenance garage, a salt storage shed, an outdoor equipment storage area, and paved areas. The configuration of the maintenance facility is presented on Figure 2 – Soil Boring, Groundwater Monitoring Well, and Soil Vapor Point Locations. Two underground storage tanks (USTs) are currently located within the northeast corner of the site and include a 6,000-gallon diesel tank and a 4,000-gallon gasoline tank. The fuel pump island associated with the USTs is located to the east of the maintenance garage. A 2,000-gallon heating oil UST is currently located along the western exterior wall of the maintenance garage.

A detailed site history is provided in a Task 230 – Site Impact Investigation Report, dated September 29, 1999, prepared by Consulting Environmental Engineers, Inc. (CEE). The following is a brief summary of the history of the subject site.

Three USTs, including two 4,000-gallon gasoline tanks and a 3,000-gallon diesel tank, were historically located off the northeast corner of the maintenance garage (see "Former Tank Farm" on the attached figure). A 2,000-gallon heating oil UST was historically located along the eastern wall of the maintenance garage and the existing fuel pump island. These USTs were removed in 1988 after one of the 4,000-gallon gasoline USTs was found to be leaking. Metcalf & Eddy estimated that 600 to 1,300 gallons of gasoline had been released from the 4,000-gallon UST. During removal of the leaking gasoline UST, free product was reportedly observed on the groundwater surface in the UST grave. Contaminated soil was also reportedly removed in the vicinity of a jet hanger formerly located within the far western portion of the site.

A groundwater extraction and treatment system operated from February 1989 until 1999. The system included a 12-inch diameter recovery well located immediately adjacent to the former tank farm. The system was found to be ineffective in treating groundwater and providing adequate hydraulic control of the volatile organic compound (VOC) plume and was shut down in April 1999 by CEE. The pump-and-treat system was replaced with a soil vapor extraction/air sparge (SVE/AS) system designed by CEE. The SVE/AS system was installed and began operation in December 2001. The SVE/AS system was installed and operated, in part, to control gasoline odors that were reported in the maintenance garage. This system operated until the fall of 2005, but was off-line for much of 2004 due to an inoperative air sparge compressor.

Periodic groundwater monitoring has been conducted at the site since June 1989 in order to monitor the VOC plume. The current semi-annual groundwater monitoring program was implemented by CEE in May 2002 to monitor and evaluate trends in groundwater quality during the operation of the SVE/AS remediation system. The results of the groundwater monitoring indicate that the VOC plume continues to persist at concentrations significantly above the

Connecticut Department of Environmental Protection (DEP) Remediation Standard Regulations (RSRs) groundwater criteria. Also, recent results indicate that the groundwater plume appears to be migrating off site to the east toward, and possibly beyond, Bantam Road.

1.2 Previous Environmental Reports

DTC reviewed previously prepared environmental reports for the subject site, which were provided by ConnDOT. The findings of only CEE's Task 230 subsurface investigation report and DTC's most recent Task 241 Expanded Water Quality Monitoring Report are briefly summarized below. Please refer to Figure 3, Groundwater Flow Direction, which shows the locations of the monitoring wells noted in this summary.

Consulting Environmental Engineers, Inc. (CEE), Task 230 Site Impact Investigation Report, dated September 1999

CEE completed the Task 230 to characterize the horizontal and vertical extent of petroleum hydrocarbons in soil and groundwater. CEE advanced 38 temporary soil vapor points, installed eight temporary well points during the advancement of soil borings, and installed 13 permanent groundwater monitoring wells as part of this investigation.

CEE initially completed a soil vapor survey in an attempt to delineate the extent of the gasoline release area in order to define an area to investigate with additional soil borings and monitoring wells. The most significant benzene concentrations were detected south of the oil/water separator.

Total petroleum hydrocarbons (TPH) were detected in soil samples obtained from all of the soil borings at concentrations ranging from 27 to 42 milligrams per kilogram (mg/kg), below the GA Pollutant Mobility Criteria (PMC) and Residential Direct Exposure Criteria (RES DEC). Xylenes were the only VOC detected in the soil samples and the results were all below the GA PMC.

TPH was detected in groundwater samples obtained from several monitoring wells and well points at concentrations above the Groundwater Protection Criteria (GWPC). The highest concentrations of TPH (20 to 30 mg/l) were detected in wells east of the garage (wells CEEMW-1, CEEMW-2, CEEMW-4, OW-1, and OW-2). Significant benzene concentrations were detected in monitoring wells and well points in the vicinity of the former leaking UST. Benzene concentrations ranged from 2 micrograms per liter (ug/l) at WP-2 (north of the former leaking UST) to 8,810 ug/l at OW-4 (immediately east of the fuel pump island).

Diversified Technology Consultants, Inc., Task 241 Expanded Water Quality Monitoring Report, dated November 2007

A total of 23 groundwater samples were submitted for laboratory analysis during the November 2007 sampling event for aromatic VOCs (AVOCs) by EPA Method 8260.

AVOCs were detected in the groundwater samples obtained from wells CEEMW-1, CEEMW-2, CEEMW-31, CEEMW-4, CEEMW-6, CEEMW-7, CEEMW-11, CEEMW-10D, CEEMW-13, ME-2, ME-12, ME-13, and OW-1 through OW-5. Concentrations of one or more AVOCs exceeded the GWPC in wells CEEMW-1, CEEMW-2, CEEMW-4, CEEMW-11, CEEMW-13, ME-12, ME-13, and OW-1 through OW-5.

Concentrations of benzene exceeded the proposed Industrial/Commercial (I/C) Groundwater Volatilization Criteria (GWVC) of 310 micrograms per liter (ug/l) in shallow monitoring wells

CEEMW-11, OW-4, and OW-5. The concentration of benzene was greater than the proposed I/C GWVC in deep well MW-13; however, the proposed I/C GWVC would not apply because the well is screened at a depth greater than 30 feet below grade. Concentrations of benzene exceeded the SWPC of 710 ug/l in monitoring wells OW-4 and OW-5.

AVOCs were detected at significantly higher concentrations compared to the semi-annual sampling event conducted in May 2007. A similar increasing AVOC concentration trend was observed between the November 2006 and May 2006 sampling events. The increasing/decreasing AVOC concentrations with fluctuating water table elevations appeared to indicate that a significant residual source of AVOC contamination in soil is present at or below the water table at the site.

Based on the November 2007 results and the historical AVOC concentration trends, DTC recommended completion of a subsurface investigation to locate and delineate gasoline contaminated soil and to install additional off-site monitoring wells to evaluate the potential for off-site migration of the VOC plume.

1.3 Scope of Work

DTC completed this Task 210 SSI in accordance with DTC's Task 210 Work Plan, dated June 6, 2008, which was approved by ConnDOT. An updated Task Assignment Recommendation was submitted on September 23, 2008 for additional subsurface investigation work to evaluate the potential for intrusion of gasoline vapors into the maintenance garage and to complete the delineation of the gasoline contaminated soil. The Task 210 SSI activities were designed based on the results of previous environmental investigations, as described above.

The scope of work for this Task 210 SSI included the following tasks:

- Pre-drilling activities, including: (1) marking proposed drilling locations, (2) contacting Call-Before-You-Dig to request mark outs of publicly-owned utilities, and (3) completing a ground penetrating radar (GPR) survey/utility mark out to locate existing/potential USTs and underground utility/product lines;
- Completion of 26 soil borings, two within the on-site building and 24 outside the building, to a maximum depth of 25 feet below grade using a track-mounted Geoprobe® direct-push rig;
- Installation of five groundwater monitoring wells (ranging in depth from 18 to 45 feet below grade) using a hollow-stem auger (HSA) drill rig;
- Recording lithology and field screening soil samples with a photoionization detector (PID);
- Collection and laboratory analysis of 63 soil samples for one or more of the following:
    - Extractable Total Petroleum Hydrocarbons (ETPH) by Connecticut DEP method;
    - total lead by EPA Method 6010B; and
    - AVOCs by EPA Method 8260B, plus MTBE
- Collection and laboratory analysis of five groundwater samples (from the five newly-installed wells) for AVOCs by EPA Method 8260B, plus MTBE; and
- Installation and sampling of three temporary soil vapor points. Two points were installed within the garage bays and one was installed within the office.

2.0 LOCAL ENVIRONMENT AND RECEPTORS

2.1 Surficial Geology

According to the "Surficial Materials Map of Connecticut", dated 1992, the majority of the site is underlain by sand and gravel overlying sand. The southwestern portion of the site is mapped as underlain by thick glacial till deposits. Within the vicinity of the on-site potable water supply well, the till was identified as being approximately 97 feet thick.

2.2 Bedrock Geology

According to the "Bedrock Geology Map of Connecticut", dated 1985, bedrock beneath the site is mapped as the Brookfield Gneiss, which is described as dark and light, medium to coarse grained dioritic gneiss. At the location of the on-site potable water supply well, the depth to bedrock was reported to be 97 feet below grade.

2.3 Groundwater

Based on a review of the Water Quality Classifications Map of the Connecticut River and Northwestern Coastal Basins, adopted 1993, DEP has designated groundwater beneath the site and surrounding area as "GAA". "GAA" classified groundwater is considered by the DEP to be suitable for existing or potential drinking water supplies without treatment. The goal of the DEP in a "GAA" area is to maintain or restore the water quality such that the water is suitable for drinking or other domestic uses without treatment and to eliminate sources of pollution to the groundwater to the extent practicable.

Based on the depths to groundwater as measured by DTC on July 3, 2008, groundwater across the site appears to generally flow in a southeasterly direction. Figure 3 depicts the approximate direction of groundwater flow across the site. Monitoring well gauging data and well elevation survey data are summarized in Table 2. It should be noted that the groundwater flow direction may vary depending on season, precipitation, bedrock, and the presence of subsurface structures and impervious surfaces.

During this Task 210 SSI, the groundwater table beneath the site was encountered between 7.76 and 10.73 feet below grade.

2.4 Surface Water

Surface water bodies are not present at the subject site. The nearest off-site surface water body to the subject site is Butternut Brook, located approximately 800 feet to the west of the site. Butternut Brook flows south into Bantam Lake, which is located approximately 1.5 miles to the south of the site.

According to the Connecticut Department of Environmental Protection (DEP) Water Quality Classification Map for the Housatonic River, Hudson River, and Southwestern Coastal Basins, dated 1997, the surface water quality of Butternut Brook is classified as Class "A". DEP designated uses for Class "A" surface waters include potential drinking water supply, recreation, fish and wildlife habitat, agricultural and industrial supply, and other legitimate uses including

navigation. The site and surrounding neighborhood (Harris Road and Ongley Road) are bordered by low-lying swamp and marsh deposits.

2.5 Drinking Water Supply

Public water is supplied to the site and site vicinity by the Aquarion Water Company.

3.0 FIELD INVESTIGATION AND SAMPLING METHODS

This Task 210 SSI included the completion of 26 soil borings, the installation of five monitoring wells, and the collection and laboratory analysis of 63 soil samples and five groundwater samples.

DTC subcontracted Logical Environmental Solutions, LLC (LES) of Tolland, Connecticut and Glacier Drilling, LLC of Durham, Connecticut to advance the soil borings using truck-mounted Geoprobe® direct-push rigs and subcontracted with Associated Borings of Naugatuck, Connecticut to install the monitoring wells using a hollow-stem auger (HSA) drill rig. The subsurface exploration program was completed on June 12, 13, 17, and 26, 2008 and October 30, 2008.

The locations of the soil borings, newly installed monitoring wells, and soil vapor sampling points are depicted on Figure 2.

Soil and groundwater samples were analyzed for AVOCs and MTBE by EPA Method 8260, ETPH by the Connecticut DEP approved method, and total lead by EPA Method 6010B. Table 1 provides a summary of the laboratory analysis requested for each soil and groundwater sample. The following sections summarize the field investigation and sampling methodologies used during this investigation.

3.1 Ground Penetrating Radar and Subsurface Utility/Product Line Mark Out

DTC contracted with Sub-Surface Informational Surveys, Inc. (SIS) of East Longmeadow, Massachusetts to complete a ground penetrating radar (GPR) survey and to mark out the locations of subsurface utilities and product lines within the area of the site to the east of the garage. The field activities were performed on June 11, 2008, prior to advancement of the soil borings and installation of the monitoring wells. The GPR report is included in Appendix F.

The purpose of this work was to locate the existing USTs, product lines, and utilities (including water, sewer/drainage, and electric) to avoid damage during the drilling operations.

3.2 Soil Boring Advancement and Sampling

Twenty-six soil borings, identified as SB-1 through SB-26, were advanced to depths ranging from 14.5 to 25 feet below grade using the Geoprobe® rigs on June 17 and 26, 2008 and October 30, 2008. Two of the borings were completed within the garage building and the remaining 24 borings were located primarily between the garage and Bantam Road. Continuous soil samples were obtained using a stainless-steel, five-foot long sampling device, lined with a dedicated acetate sample tube. The tube was opened on its horizontal axis to allow inspection, description of lithology, and sampling of the material.

A representative portion of each 5-foot long soil core was immediately collected by the DTC field scientist and placed within a clean polyethylene zip-lock bag for field screening with a photoionization detector (PID). The PID was equipped with a 10.6 eV bulb and was calibrated to isobutylene standard gas (100 parts per million). The results of the PID screening are provided on the soil boring logs, which are included as Appendix A.

Gasoline impacts were noted during the advancement of borings SB-1 through 5, SB-17, and SB-26.

Following lithology description, soil samples were collected at approximately two and half foot intervals from each soil boring. Soil samples from the borings were selected for laboratory analysis based upon the visual appearance of the soil and the results of the field screening. The samples were submitted to Spectrum Analytical, Inc. (Spectrum) of Agawam, MA, a State of Connecticut Department of Public Health certified environmental testing laboratory, using proper preservation techniques and chain of custody control.

3.3 Monitoring Well Installation, Repair of Existing Wells, and Well Development

Five groundwater monitoring wells, identified as MW-1, MW-2, MW-3, MW-4, and MW-5 were installed on June 12 and 13, 2008. Continuous soil samples were collected during the installation of wells MW-4 and MW-5, using an HSA drill rig and soil samples were collected for field screening and laboratory analysis as described in Section 3.2. Soil samples were not collected during the installation of wells MW-1, MW-2, and MW-3, however the drill cuttings were visually inspected and described by the DTC environmental scientist. DTC did not field screen the drill cuttings. Monitoring well completion logs are included in Appendix A.

Wells MW-1, MW-2, and MW-3 were installed at a depth of 45 feet below grade and wells MW-4 and MW-5 were installed at a depth of 18 feet below grade. The wells were constructed using 2-inch diameter PVC slotted screen with, 2-inch diameter PVC riser pipe to the ground surface and were finished with roadbox covers or metal standpipes which were cemented in place. A sand pack was installed surrounding the screened section of the wells, which extended approximately 2 to 3 feet above the top of the well screen. An approximately one foot thick bentonite clay seal was installed above the sand pack to limit potential vertical migration of surface water down the borehole. The borehole was then backfilled to approximately one foot from grade using soil from the borehole.

Following installation, DTC developed the newly installed wells and several existing wells using a submersible whale pump and dedicated tubing. The newly installed wells were developed to improve the hydraulic connection of the wells with the surrounding aquifer and to reduce turbidity. The existing wells were developed in order to remove silt that had built up in wells.

Associated Borings, Inc. provided labor and specialized materials/parts to remove and replace 13 8-inch road boxes and associated concrete pads, three 4-inch standpipes and associate concrete pads, and repair five 2-inch PVC casings. The PVC casings of monitoring wells CEEMW-4, CEEMW-5, CEEMW-7, CEEMW-9, and CEEMW-10S were adjusted during the repairs to improve the seal with the well gripper and protective casing.

3.4 Groundwater Gauging, Sampling, and Relative Elevation Survey

Following installation of the five new wells and repair of the existing wells, DTC completed a relative elevation survey of the PVC well casings of all of the wells at the site and the ground surface immediately adjacent to all of the wells at the site on July 3, 2008. The elevation of each well was calculated relative to a benchmark on the northeast corner of the building, with an arbitrary elevation of 100 feet.

DTC sampled the five newly installed wells on July 16, 2008 using a low-flow sampling protocol. Prior to sampling, DTC measured the depth to water in all of the wells and the total depth of the wells. Depth measurements were obtained relative to the highest point on the PVC well riser pipe. Well depth, depth to water, and relative elevation measurements are provided in Table 2.

After gauging each well, a dedicated narrow diameter polyethylene tube was inserted into each well to a depth of approximately the midpoint of the water column in the well. Each monitoring well was purged for 15 to 30 minutes using a GeoTech GeoPump-2® variable speed peristaltic pump. Groundwater parameters including pH, dissolved oxygen, oxygen reduction potential (ORP), specific conductance, and temperature were measured periodically in the field using a YSI 63 meter equipped with a flow through cell. Groundwater samples were collected into laboratory provided sample containers once the field parameters stabilized. A LaMotte 2020 turbidity meter was used to periodically measure turbidity of the groundwater purged from the wells in the field. Samples were obtained from wells MW-1, MW-2, and MW-5 once turbidity readings dropped below five Nephelometric Turbidity Units (NTUs). The groundwater in wells MW-3 and MW-4 remained slightly turbid, with readings of 5.03 and 5.86 NTUs respectively,

The groundwater was decanted from the dedicated tubing directly into pre-preserved sample containers provided by the laboratory. Groundwater Sampling Logs are included as Appendix B.

Upon collection, the groundwater samples were immediately placed in a cooler with ice. The samples were submitted to Spectrum using proper preservation techniques and chain of custody control.

3.5 Temporary Soil Vapor Point Installation & Soil Vapor Sampling

Soil vapor samples were obtained from below the maintenance garage to determine if the concentrations of AVOCs in soil vapor beneath the building exceed the Proposed RES and I/C SVVC. The purpose of this evaluation was to determine if remediation of soil and groundwater below the building would be necessary to mitigate the potential for the intrusion of gasoline vapors into indoor air of the garage.

On October 24, 2008, DTC installed and sampled three temporary sub-slab soil vapor sampling points, identified as SV-1 through SV-3, inside the maintenance garage. The locations of the soil vapor points are shown on Figure 2.

The soil vapor points were installed by drilling a 1.5-inch diameter hole through the concrete slab with a hammer drill included with a KVA Vapor Probe System. The soil vapor sample tubing consisted of 3/16 inch outside diameter (O.D.) polyethylene tubing. The tubing was attached, by a barbed fitting, to the vapor points which were expendable drive points with attached three inch long slotted screens. The sample tubing was then threaded through a hollow drive rod. The drive rod was attached to the hammer drill and the vapor points were driven to depths of 4 to 5 inches below the bottom of the slab. The rod was retracted, leaving the expendable points/screens and tubing in the subsurface. The tubing exiting the slab was clamped shut to prevent indoor air from entering the sampling points. The annular space around the sample tubing was backfilled with No. 0 clean filter sand to a depth of approximately 1 inch above the bottom of the slab. Clean bentonite clay was activated with distilled water and packed into the annular space above the sand to the top of the floor.

The soil vapor sampling points were sampled in general conformance with the approach and recommendations outlined in the EPA document entitled, "Assessment of Vapor Intrusion in Homes Near the Raymark Superfund Site Using Basement and Sub-Slab Air Samples", dated March 2006, document number EPA/600/R-05/147.

After installation, the sampling points were allowed to equilibrate for at least two hours. After the equilibration period, the tube clamps were removed and a SKC universal air sampling pump

(Model No. 224-PCXR4) was attached to the sample tubing. Each point was purged for two minutes at a rate of approximately one liter per minute.

The vapor samples were obtained by attaching an evacuated, laboratory cleaned/provided, 6-liter Summa canister, equipped with an individual 1 hour flow regulator, to the sample tubing. Once the canister was securely attached to the tubing, an isopropyl alcohol soaked paper towel was placed around the tubing at the slab entry point. The purpose of the isopropyl alcohol was to check for short-circuiting of indoor air through the bentonite plug into the sampling point below the slab. After placement of the alcohol soaked paper towel around the tube entry point, the valve of the canister was opened to start the soil vapor sampling process and the start time was noted.

The flow regulators were equipped with pressure gauges. The valves on the canisters were closed to stop sampling once the pressure reading was between 4 and 5 inches of mercury and the stop time was noted. The canisters sampled for approximately 60 to 67 minutes before achieving the target end pressure, resulting in a sampling flow rate of approximately 0.1 liters per minute. After sampling, the vapor points, bentonite, and sand were removed and the holes were filled with concrete.

The Summa canisters were submitted to Con-Test Analytical Laboratory, Inc. (Con-Test) of East Longmeadow, MA for laboratory analysis under proper chain of custody.

4.0 REGULATORY CRITERIA

The analytical results were compared to the numeric criteria listed in the Connecticut DEP Remediation Standard Regulations (RSRs), sections 22a-133k-1 through 22a-133k-3 of the Regulations of Connecticut State Agencies dated January 1996, and the DEP Comprehensive List of Approved Additional Polluting Substances Criteria and Alternative Criteria, dated October 24, 2005.

The RSRs were developed by the DEP to define the remediation performance standards for soil and groundwater, specific numeric cleanup criteria, and processes for establishing alternative site-specific standards. The RSRs apply specifically to sites at which remedial actions are required by the DEP under Chapters 445 or 446k of the Connecticut General Statutes (CGS) such as under an administrative order, subsequent to a transfer of an establishment under CGS Section 22a-134a, and to sites that are enrolled in a Voluntary Remediation Program under CGS Sections 22a-133x or 22a-133y.

The subject site is not currently regulated under any of these State statutes. However, DTC used the numeric criteria in the RSRs as guidelines to assess the site and to make conclusions regarding concentrations of regulated compounds detected in soil and groundwater. The following sections provide a brief summary of the soil, groundwater, and soil vapor criteria utilized during this Task 210 SSI.

As the site is currently a ConnDOT maintenance facility and is not used for residential purposes, DTC compared the soil, groundwater, and soil vapor analytical results to criteria that are applicable to an industrial/commercial site located in an area with "GAA" classified groundwater.

4.1 Soil Criteria

Direct Exposure Criteria (DEC)

The DEC are designed to protect human health from risks associated with exposure to pollutants in contaminated soil within 15 feet of the ground surface. For this site, the soil analytical results were compared to the I/C DEC.

Pollutant Mobility Criteria (PMC)

The PMC are designed to protect groundwater quality by reducing or eliminating the potential for migration of pollutants to groundwater from contaminated soil. The RSRs provide two sets of PMC based on the groundwater classification of the site, as designated by DEP. In a "GA" groundwater classification area, the GA PMC apply to soil located from the ground surface to the depth of the seasonal low water table, which for the project site appears to be approximately 12.5 feet below grade. As the project area is in a "GAA" area, DTC compared the soil analytical results for soil located from surface grade to 12.5 feet below grade to the GA PMC.

4.2 Groundwater Criteria

Groundwater Water Protection Criteria (GWPC)

The GWPC apply to groundwater within "GA" and "GAA" classified areas. The goal of the GWPC is to preserve the designated use of the groundwater resource as an existing or potential future supply of water suitable for drinking or other uses without prior treatment. As the project area is in a "GAA" area, DTC compared the groundwater analytical data to the GWPC.

Surface Water Protection Criteria (SWPC)

The SWPC apply to groundwater that discharges to surface water. The goal of the SWPC is to preserve surface water quality to protect both human health and the environment. As all groundwater eventually discharges to a surface water body, DTC compared the groundwater analytical results to the SWPC.

Groundwater Volatilization Criteria (GWVC)

The GWVC are designed to protect human health from contaminants that may volatilize from contaminated groundwater into overlying buildings.

The DEP proposed revisions to the volatilization criteria in a document dated March 2003. The DEP has verbally indicated that groundwater conditions should be evaluated relative to the revised criteria. Under the revised GWVC, groundwater located within 30 feet of the ground surface is regulated. The depths to groundwater at the site ranged from 5.92 to 10.73 feet below grade on July 3, 2008. For this site, the groundwater analytical results were compared to the Proposed I/C GWVC, which are summarized in Table 4.

4.3 Soil Vapor Criteria

Soil Vapor Volatilization Criteria (SVVC)

The SVVC are designed to protect human health from contaminants that may migrate from the soil vapor below a building, through the floor slab and foundation, and into the indoor air of the overlying structure. Per the RSRs, remediation of groundwater to the GWVC is not required if the concentration of a contaminant in soil vapor below a building is equal to or less than the SVVC.

DEP proposed revisions to the SVVC in the previously mentioned March 2003 document and has verbally indicated that soil vapor conditions should be evaluated relative to the revised criteria. For this site, the soil vapor analytical results were compared to the Proposed I/C SVVC, which are summarized in Table 5.

5.0 SUMMARY AND EVALUATION OF ANALYTICAL DATA

5.1 Soil Sample Analytical Results

Soil analytical results are summarized in Table 3 along with the regulatory criteria and the soil analytical laboratory reports are included in Appendix C. The soil analytical results are discussed below.

Extractable Total Petroleum Hydrocarbons (ETPH)

A total of 36 soil samples were analyzed for ETPH. ETPH was detected in 15 soil samples at concentrations ranging from non-detect to 3,420 mg/kg.

ETPH was detected at concentrations exceeding the GA PMC of 500 mg/kg in eight samples identified as SB-1 (10-12.5' at 1,190 mg/kg), SB-2 (10-12.5' at 742 mg/kg), SB-10 (10-12.5' at 3,420 mg/kg), SB-12 (10-12.5' at 1,730 mg/kg), SB-13 (10-12.5' at 1,650 mg/kg), SB-15 (10-12.5' at 577 mg/kg), SB-16 (10-12.5' at 1,191 mg/kg), and SB-26 (10-12.5' at 3,020 mg/kg).

ETPH was detected at concentrations exceeding the I/C DEC of 2,500 mg/kg in two samples identified as SB-10 (10-12.5' at 3,420 mg/kg) and SB-26 (10-12.5' at 3,020 mg/kg).

The approximate extent of soil containing ETPH concentrations exceeding the RSR criteria is shown on Figure 4.

Volatile Organic Compounds (VOCs)

A total of 63 soil samples were analyzed for AVOCs. One or more AVOCs were detected above the method detection limits in 38 soil samples.

A total of 11 samples contained one or more AVOCs at concentrations exceeding the GA PMC including: SB-1 (10-12.5'), SB-2 (10-12.5'), SB-3 (10-12.5'), SB-10 (10-12.5'), SB-12 (10-12.5'), SB-13 (10-12.5'), SB-14 (10-12.5'), SB-15 (10-12.5'), SB-16 (10-12.5'), SB-17 (10-12.5'), and SB-26 (10-12.5').

The AVOC xylene was detected at concentrations exceeding the I/C DEC of 1,000 mg/kg in samples SB-10 (10-12.5' at 1,249 mg/kg) and SB-26 (10-12.5' at 1,353 mg/kg).

The approximate extent of soil containing AVOC concentrations exceeding the RSR criteria is shown on Figure 4.

Total Lead

Ten soil samples were analyzed for total lead. Lead was detected in seven soil samples at concentrations ranging from 1.68 to 3.18 mg/kg, which are well below the RES DEC of 500 mg/kg.

5.2 Groundwater Sample Analytical Results

A total of five groundwater samples were submitted for laboratory analysis for AVOCs and MTBE as part of this Task 210 SSI. Groundwater analytical results are summarized in Table 4, along with

the regulatory criteria. The groundwater laboratory analytical reports are included as Appendix D. The groundwater analytical results are summarized below.

AVOCs

Multiple AVOCs and MTBE were detected in the sample obtained from deep well MW-2, which is located to the east across Bantam Road. Benzene was detected in the MW-2 sample at a concentration of 109 ug/l, exceeding the GWPC of 1 ug/l. The other gasoline related VOCs were detected in the MW-2 sample, but were below the RSR criteria.

MTBE was detected in the groundwater sample obtained from deep well MW-3 at a concentration of 6 ug/l, below the RSR criteria. VOCs were not detected in the other three samples above the method detection limits.

5.3 Soil Vapor Analytical Results

Three soil vapor samples were collected and laboratory analyzed as part of this investigation. The soil vapor samples were analyzed for AVOCs per EPA Method TO-15, including isopropyl alcohol.

The soil vapor analytical results are summarized in Table 5. The soil vapor laboratory analytical reports are included as Appendix D.

Several AVOCs were detected in the three soil vapor samples at concentrations several orders of magnitude below the Proposed I/C SVVC (as well as the Proposed RES SVVC).

Isopropyl alcohol (IPA) was detected in each of the samples at concentrations ranging from 0.0015 ppmv in SV-2 to 0.009 ppmv in SV-3. Detection of IPA in the soil vapor samples at these very low concentrations indicates that there may have been minor short circuiting of indoor air through the seal in the concrete and into the vapor sampling point. This effect appears to be relatively insignificant and is not believed to have impacted the analytical results.

5.4 Quality Assurance (QA)/Quality Control (QC) Results

Soil

Two trip blank samples were prepared at the laboratory and accompanied the sample containers from the laboratory, to the site, and back to the laboratory. The purpose of the trip blank samples is to evaluate the potential for cross-contamination during transport. The trip blank samples were analyzed for AVOCs. AVOCs were not detected in the samples, indicating that there was likely no cross-contamination of the samples during transportation.

Two duplicate soil samples were obtained of randomly selected soil samples to evaluate the accuracy of the laboratory analytical data. Duplicate samples were obtained from samples SB-17 (10-12.5') and SB-26 (10-12.5'). Both samples were analyzed for AVOCs and ETPH.

The results for the SB-13 (10-12.5') duplicate indicates that there was a 25.6 percent difference in the AVOC results and an 85 percent difference in the ETPH results. The results for the SB-26 (10-12.5') duplicate indicated that there was a 57 percent difference in the AVOC results and a 64 percent difference in the ETPH results.

The variation in the AVOC analytical results between the samples and their duplicates appears to be due to varying concentrations in the sampling intervals along with the fact that VOC samples are obtained as grab samples from discrete locations within the sample interval. Due to these variables, it can be expected that VOC results could be quite different between duplicate samples.

The difference in ETPH results appears to be due to varying sample heterogeneity between the initial and duplicate samples and not an error on the part of the laboratory.

All analysis were performed per the DEP Reasonable Confidence Protocal (RCP) and meet the RCP requirements. Therefore, all of the soil data meet the requirements for Reasonable Confidence as defined by the DEP.

DTC also thoroughly reviewed the QA/QC report included with the laboratory analytical report to evaluate the reliability of the analytical data. Please refer to the analytical reports for a detailed narrative discussion of the reliability of the data.

Groundwater

A field blank sample was collected by running de-ionized water through the groundwater sampling equipment into the laboratory provided sample containers. The purpose of the field blank sample is to evaluate the potential for cross-contamination due to the sampling equipment or technique. The field blank sample was analyzed for AVOCs. No constituents were detected in the field blank sample, indicating that there was likely no cross-contamination.

A trip blank sample was prepared at the laboratory and accompanied the sample containers from the laboratory, to the site, and back to the laboratory. The purpose of the trip blank sample is to evaluate the potential for cross-contamination during transport. The trip blank sample was analyzed for AVOCs. AVOCs were not detected in the sample, indicating that there was likely no cross-contamination of the samples during transport.

A duplicate groundwater sample was obtained from a randomly selected well (MW-5) to evaluate the accuracy of the laboratory analytical data. The results indicated that AVOCs were not detected in the MW-5 sample as well as its duplicate.

DTC also thoroughly reviewed the QA/QC report included with the laboratory analytical report to evaluate the reliability of the analytical data. Please refer to the analytical reports for a detailed narrative discussion of the reliability of the data.

All analyses were performed per the RCP and meet the RCP requirements. Therefore, all of the groundwater analytical data meet the requirements for Reasonable Confidence as defined by the DEP.

Soil Vapor

A duplicate soil vapor sample was obtained from a randomly selected Summa canister (SV-3) to evaluate the accuracy of the laboratory analytical data. The results indicated that there was 0.55 percent difference in the results, which is acceptable.

6.0 CONCLUSIONS AND RECOMMENDATIONS

6.1 Conclusions

As noted in Section 1.1, the purpose of this Task 210 SSI was to collect soil, groundwater, and soil vapor samples within the vicinity of the current and former tank farm areas and pump island to 1) delineate the horizontal and vertical extent of gasoline contaminated soil within the eastern portion of the site; 2) evaluate the potential for AVOCs to be migrating off-site; and 3) evaluate the potential for intrusion of gasoline vapors into the indoor air of the maintenance garage.

The Task 210 SSI activities completed by DTC in June, July, and October 2008 included a GPR survey/subsurface utility and product line mark out; completion of 26 soil borings (two within the garage building); installation of five groundwater monitoring wells; installation and sampling of the temporary soil vapor points; and the collection and laboratory analysis of 63 soil, five groundwater, and three soil vapor samples.

The soil samples collected as part of the Task 210 SSI were analyzed for one or more of the following: AVOCs and MTBE, ETPH, and total lead. The groundwater and soil vapor samples were analyzed for AVOCs and MTBE.

Based on the findings of this Task 210 SSI, ETPH and AVOCs were detected in soil at concentrations above the RSR criteria (primarily the GA PMC). The approximate extent of soil containing these constituents at concentrations exceeding the RSR criteria is depicted on Figure 4.

Gasoline contaminated soil was found to be present at depths ranging from 10 to 20 feet below grade. The thickness of contaminated soil was found to decrease horizontally in all directions from the release area. As previously indicated, the depth to the seasonal low water table appears to be approximately 12.5 feet below grade, the depth to which the GA PMC apply at this site. The most significant contamination was identified within the vicinity of the former tank farm, fuel pumps, and oil/water separator.

Based on the soil analytical data, the horizontal and vertical extent of the gasoline contaminated soil has been delineated. Gasoline contamination in soil appears to have migrated primarily to the south, approximately 135 feet from the release area (former tank farm). Gasoline contaminated soil may be present below the extreme eastern portion of the maintenance garage. No gasoline contamination was identified in the vicinity of the current tank farm. Gasoline contamination in soil does not appear to have migrated beyond the site boundaries.

Benzene was detected in the groundwater sample obtained from off-site deep well MW-2 (screened from 35 feet to 45 feet and located due east of the release area) at a concentration above the GWPC. Multiple other gasoline related AVOCs and MTBE were also detected in the MW-2 sample. No AVOCs or MTBE were detected in off-site deep well MW-1 and a very low concentration of MTBE was detected in deep well MW-3, installed in the northeast corner of the site. Based on this data, it is evident that gasoline contamination is present in the deeper portion of the aquifer at significant concentrations. Gasoline contamination appears to have been transported to the deeper portion of the aquifer as a result of the operation of the former groundwater remediation pump and treat system.

The findings of the soil vapor survey indicated that the concentrations of contaminants below the main building were well below the Proposed I/C SVVC as well as the Proposed RES SVVC.

Based on these findings, it does not appear that the presence of gasoline contamination in soil and groundwater below the building poses a vapor intrusion risk.

6.2 Recommendations

DTC does not recommend additional soil, groundwater, or soil vapor investigations at this time, however, DTC does recommend periodic monitoring of the groundwater plume. DTC recommends that groundwater monitoring be conducted on a semi-annual basis during the months of May and November, consistent with the previous monitoring schedule.

The groundwater plume appears to be migrating off-site at significant concentrations, resulting in impacts to the property to the east of the site across Bantam Road. In an effort to reduce potential future liability associated with the off-site migration of the plume, DTC recommends that the findings of the Task 210 SSI be used to evaluate and select options for further remediation of the remaining soil and groundwater contamination with the goal of eliminating, or significantly reducing, off-site migration of the AVOC plume.

To work toward this goal, DTC recommends planning and implementing a pilot scale test to evaluate the effectiveness of potential remedial options. Based on the type and distribution of contamination, as well as the presence of USTs, piping, and other underground structures, DTC may recommend injection of an oxidizer product to remediate soil and groundwater. In order to reduce the concentrations of AVOCs (especially benzene) that appear to be migrating off-site, DTC may recommend injection of an oxidizer along only the eastern property boundary to "block" the plume from migrating off-site.

DTC also recommends conducting an up to date inventory of potable water supply wells within 1,000 feet downgradient of the site. If any potable wells are identified, DTC recommends sampling the wells to evaluate the potential presence of gasoline constituents in the drinking water.

Historic potable water supply well sampling of wells downgradient of the site indicate the presence of gasoline constituents in several potable supply wells. Most notably, MTBE was detected at 230 ug/l in a water sample obtained from a water supply well located at 25 Harris Road in March 1997. This well is located approximately 900 feet to the southeast, in an apparent downgradient direction relative to the subject site.

7.0 LIMITATIONS

All work product and reports provided in connection with the performance of this Task 210 SSI are subject to the following limitations:

This investigation and report were conducted and prepared on behalf of and for the exclusive use of ConnDOT.

The observations, findings, and conclusions provided in this report were based on DTC's observations of the site conditions at the time of the investigation.

The conclusions summarized herein are based on the observations and investigations described within this report. Future events at the site or surrounding properties may alter these findings.

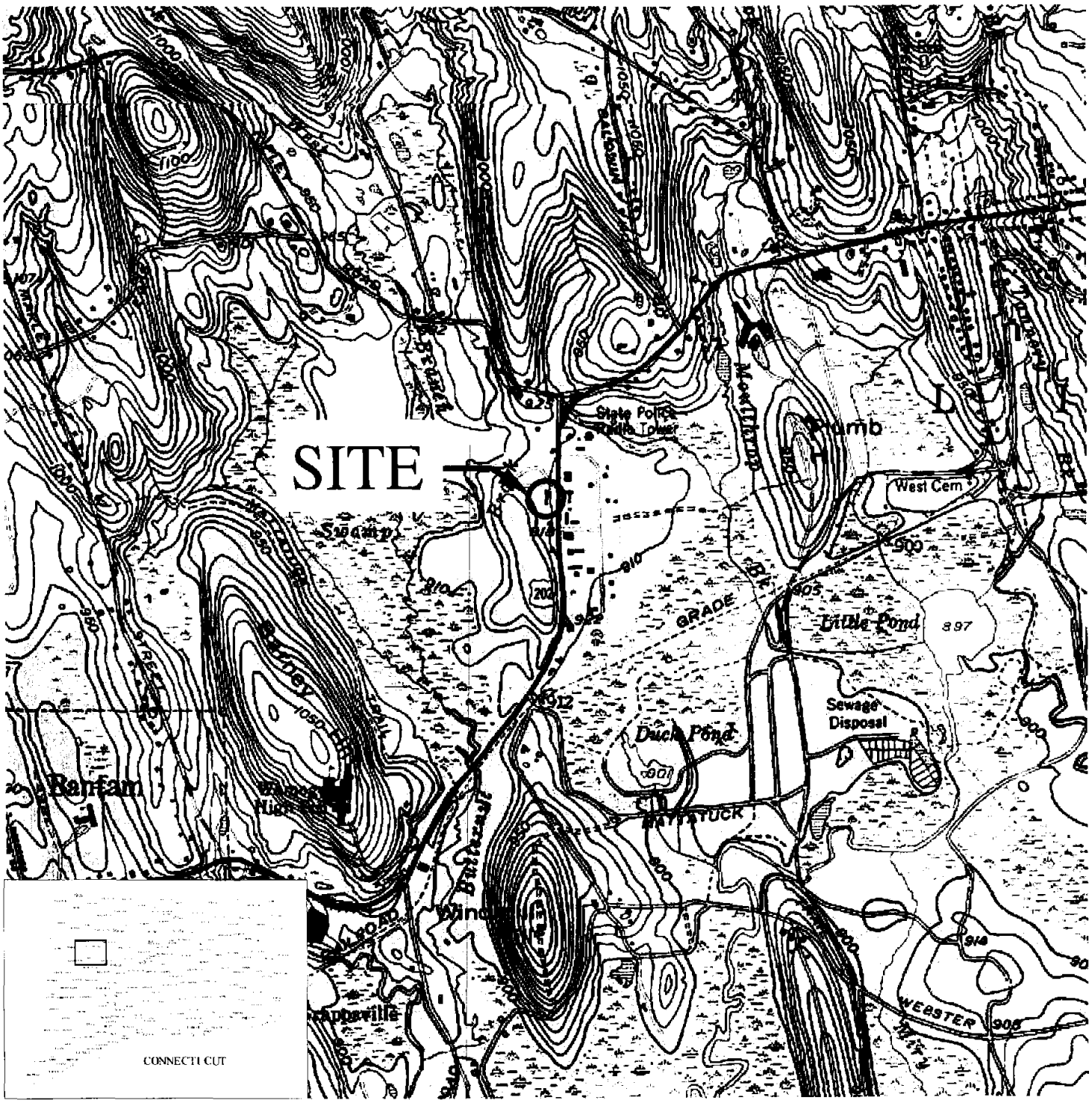
In completing this Task 210 SSI, DTC has relied upon information provided by subcontractors (i.e. laboratories and drilling contractors). DTC has relied upon this information carefully; however, DTC provides no warranty regarding the accuracy and completeness of the information provided.

DTC has performed this study in a professional manner using a degree of skill and care exercised for similar projects under similar conditions by reputable and competent environmental consultants. The conclusions provided by DTC are based solely on the scope of work conducted and on observations and limited explorations described within this report at the time these services were conducted. No other warranty, expressed or implied, is made as to the professional opinions included by DTC in this report.

8.0 REFERENCES

1. Consulting Environmental Engineers, Inc. (CEE), Task 230 Site Impact Investigation Report, dated September 1999.
2. Diversified Technology Consultants, Inc., Task 241 Expanded Water Quality Monitoring Evaluation Report, dated November 2007.
3. State of Connecticut Department of Environmental Protection (DEP), Remediation Standard Regulations, Sections 22a-133k-1 through –3 of the Regulations of Connecticut State Agencies, effective January 30, 1996. Proposed Revisions, Connecticut's Remediation Standard Regulations, Volatilization Criteria, dated March 2003.
4. DEP, "Comprehensive List of Approved Additional Polluting Substances Criteria and Alternative Criteria", dated October 24, 2005.
5. DEP, "Water Quality Classifications Map, Housatonic River, Hudson River, and Southwestern Coastal Basins", dated 1997
6. State of Connecticut Department of Transportation, Division of Environmental Compliance, "On-Call Contaminated Soil/Groundwater Scopes" manual, dated 2003.
7. Rogers, J., 1985. Bedrock Geologic Map of Connecticut. State Geological and Natural History of Connecticut.
8. Stone, Janet Radway, Schafer, John P., London, Elizabeth Haley, and Thompson, Woodrow B. 1992. Surficial Materials Map of Connecticut. State Geological and Natural History of Connecticut.

FIGURES



USGS Quadrangle: Litchfield, CT

1 inch = 2000 feet

Site Location Map

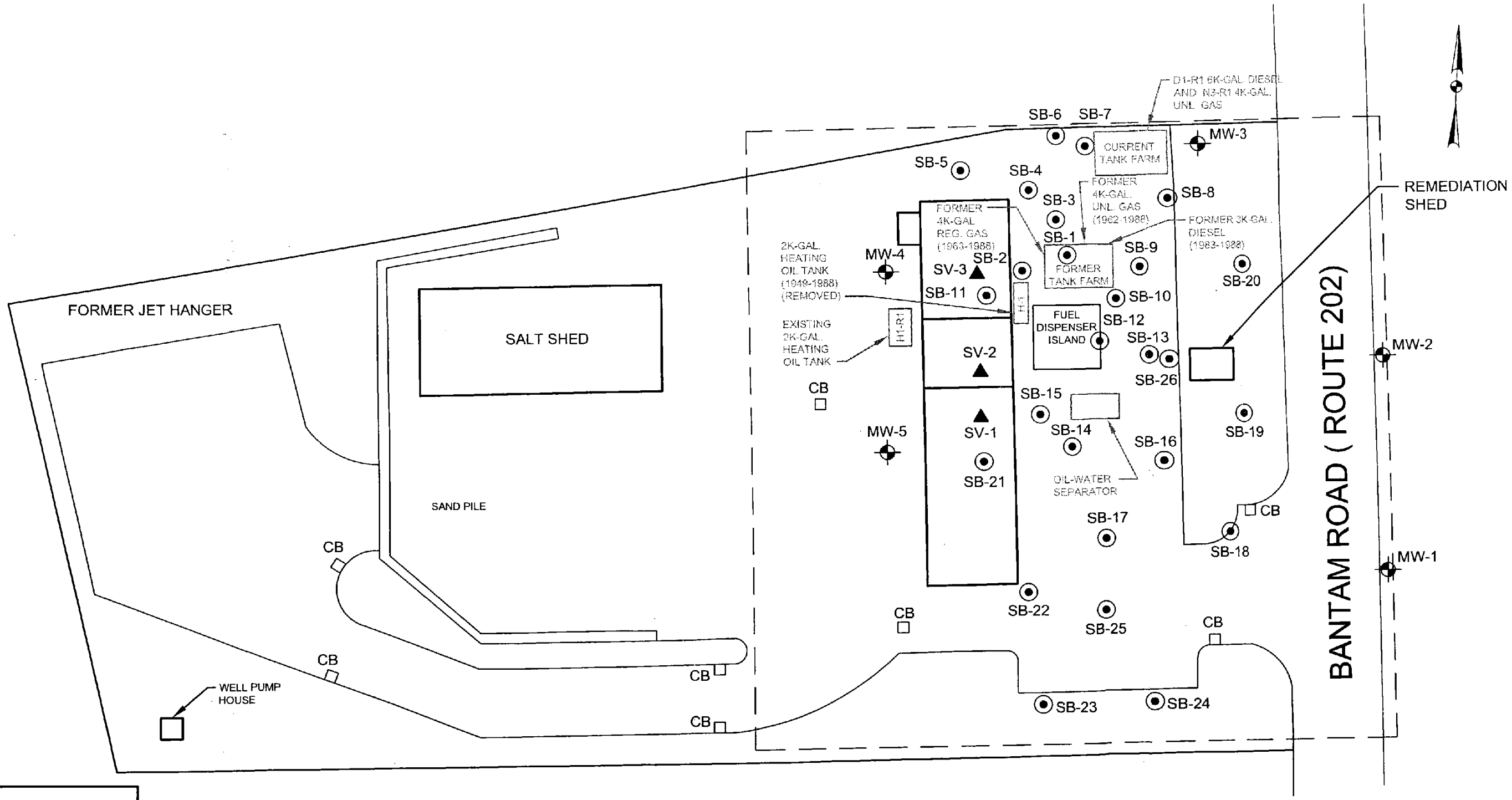
Litchfield Maintenance Facility
438 Bantam Road, (Route 202)
Litchfield, Connecticut

ConnDOT Project No. 170-1877, Assignment No. 302-3236, DTC Project No. 03-273-35E

December 2008

Figure 1

DIVERSIFIED TECHNOLOGY CONSULTANTS, INC.
North Haven, CT New Rochelle, NY Norwich, CT
Andover, MA



LEGEND

CB	CATCH BASIN
⊙	SOIL BORING
▲	SOIL VAPOR POINT
⊕	MONITORING WELL

NOTE:
BASE MAP: DOT FACILITY MAP 73-155: SITE GRADING & UTILITIES PLAN, 1-12-94.

GRAPHIC SCALE

50 0 50 100

(IN FEET)

DTC PROJECT NUMBER: 03-273-35E
DTC DRAWING FILE: 03273-35E
SCALE: 1"=50' DRAWN BY: AJC
DATE: DECEMBER 2008 CHECKED BY:

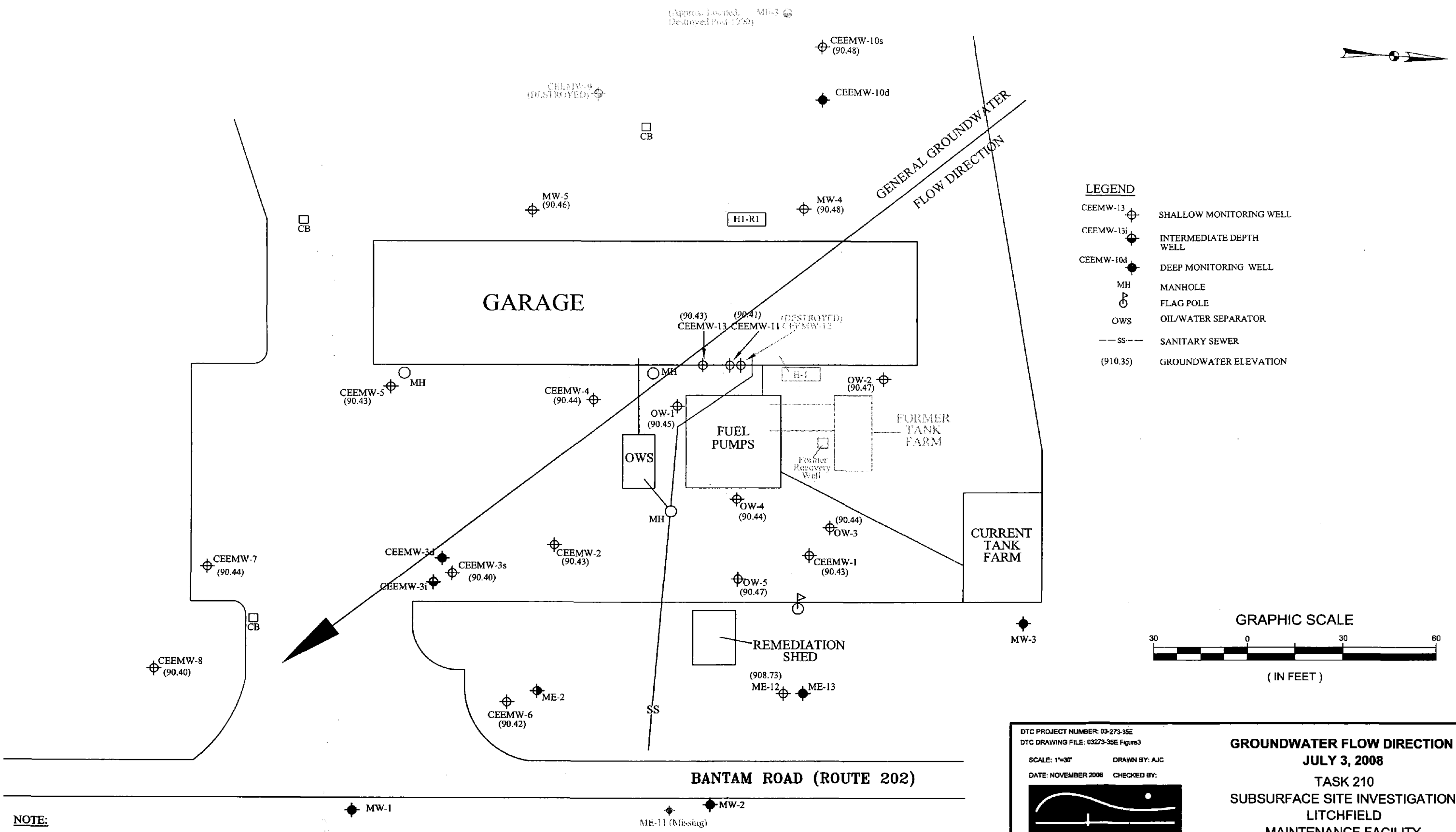
DIVERSIFIED TECHNOLOGY CONSULTANTS
556 WASHINGTON AVENUE NORTH HAVEN CT 06473
203 239 4200 203 234 7378 FAX

SOIL BORING, MONITORING WELLS, AND SOIL VAPOR POINT LOCATIONS

TASK 210
SUBSURFACE SITE INVESTIGATION
LITCHFIELD
MAINTENANCE FACILITY

438 BANTAM ROAD
LITCHFIELD, CONNECTICUT
CONNDOT PROJECT
NO: 170-1877

FIGURE 2



NOTE:

BASE MAP: DOT FACILITY MAP 73-155: SITE GRADING & UTILITIES PLAN, 1-12-94.

DTC PROJECT NUMBER: 03-273-35E
DTC DRAWING FILE: 03273-35E Figure3
SCALE: 1"=30' DRAWN BY: AJC
DATE: NOVEMBER 2008 CHECKED BY:

DIVERSIFIED TECHNOLOGY CONSULTANTS
555 WASHINGTON AVENUE NORTH HAVEN CT 06473
203 239 4595 203 234 7376 FAX

GROUNDWATER FLOW DIRECTION
JULY 3, 2008

TASK 210
SUBSURFACE SITE INVESTIGATION
LITCHFIELD
MAINTENANCE FACILITY
438 BANTAM ROAD
LITCHFIELD, CONNECTICUT
CONNDOT PROJECT
NO: 170-1877

FIGURE 3

TABLES

TABLE 1

Sample Location Rationale and Selected Analysis

Task 210 - Subsurface Site Investigation
ConnDOT Maintenance Garage Facility
Bantam Road, Litchfield, Connecticut

Sample Identification	Sample Interval	Location Rationale	Aromatic VOCs	ETPH	Total Lead
SB-1	5-7.5'	Within the former tank farm	X	X	
	10-12.5'		X	X	X
	15-17.5'		X	X	X
	17.5-20'		X	X	
SB-2	7.5-10'	West of former tank farm	X	X	
	10-12.5'		X	X	X
	12.5-14.5'		X	X	
	14.5-16.5'		X	X	
SB-3	7.5-10'	In the vicinity of the former and current tank farm	X	X	
	10.12.5'		X	X	X
	15-17.5'		X	X	X
SB-4	7.5-10'	In the vicinity of the former and current tank farm	X	X	
	10-12.5'		X	X	X
	15-17.5'		X	X	X
	17.5-20'		X	X	
SB-5	10-12.5'	In the vicinity of the former and current tank farm	X	X	
SB-6	10-12.5'	In the vicinity of the former and current tank farm	X	X	
SB-7	10-12.5'	Adjacent to the current tank farm	X	X	
SB-8	7.5-10'	In the vicinity of the former and current tank farm	X		
SB-9	10-12.5'	Adjacent to the former tank farm	X		
	12.5-15'		X		
	15-17.5'		X	X	
	17.5-20'		X		
SB-10	7.5-10'	Adjacent to the former tank farm	X	X	
	10-12.5'		X	X	X
	12.5-14.5'		X		
SB-11	10-12.5'	Inside the garage, west of the former tank farm	X		
	12.5-15'		X	X	X
SB-12	7.5-10'	Adjacent to the current tank farm	X		
	10-12.5'		X	X	
	15-17.5'		X		
SB-13	7.5-10'	East of the current tank farm	X	X	
	10-12.5'		X	X	X
	14.5-16.5'		X		

SB-14	7.5-10' 10-12.5' 15-17.5' 17.5-20	South of the pump island, oil-water separator, and former/current tank farms	X X X X	X	
SB-15	7.5-10' 10-12.5' 15-17.5'	South/west of the pump island, oil-water separator, and former/current tank farms	X X X	X	
SB-16	7.5-10' 10-12.5' 15-17.5'	South of the pump island, oil-water separator, and former/current tank farms	X X X	X	
SB-17	7.5-10' 10-12.5	South of the pump island, oil-water separator, and former/current tank farms	X X	X	
SB-18	10-12.5'	Southeast of the pump island, oil-water separator, and former/current tank farms	X		
SB-19	12.5-15' 15-17.5' 17.5-20'	Southeast of the pump island, oil-water separator, and former/current tank farms	X X X	X	
SB-20	12.5-15' 15-17.5' 20-22.5'	East of the pump island, oil-water separator, and former/current tank farms	X X X	X	
SB-21	12.5-15'	Inside the garage, southwest of the pump island, oil-water separator, and former/current tank farms	X		
SB-22	12.5-15'	South of the pump island, oil-water separator, and former/current tank farms	X		
SB-23	10-12.5'	South of the pump island, oil-water separator, and former/current tank farms	X		
SB-24	12.5-15'	South of the pump island, oil-water separator, and former/current tank farms	X		
SB-25	10-12.5'	South of the pump island, oil-water separator, and former/current tank farms	X		
SB-26	7.5-10' 10-12.5' 15-17.5'	South/east of the pump island, oil-water separator, and former/current tank farms	X X X	X X X	
MW-4	9-11'	Westside of the garage, southwest of the pump island, oil-water separator, and former/current tank farms	X	X	
MW-5	9-11'	Westside of the garage, southwest of the pump island, oil-water separator, and former/current tank farms	X	X	

TABLE 2
MONITORING WELL GAUGING DATA
Task 210 - Subsurface Site Investigation
Litchfield Maintenance Facility
Litchfield, Connecticut

Well Identification	Well Depth (feet)	Screened Interval (feet)	Reference Point Elevation (feet)	Depth to Water (feet)	Groundwater Elevation (feet)
Shallow Monitoring Wells					
CEEMW-1	14.51	4.0-14	99.38	8.95	90.43
CEEMW-2	14.35	3.5-13.5	99.41	8.98	90.43
CEEMW-3S	14.75	3.5-13.5	99.12	8.72	90.4
CEEMW-4	14.65	3.8-13.8	100.79	10.35	90.44
CEEMW-5	13.52	3.5-13.5	100.50	10.07	90.43
CEEMW-6	14.68	3.6-13.6	98.18	7.76	90.42
CEEMW-7	14.48	3.8-13.8	99.34	8.90	90.44
CEEMW-8	14.45	3.5-13.5	98.94	8.54	90.40
CEEMW-10S	12.65	4.0-14	101.08	10.6	90.48
CEEMW-11	16.75	7.0-17	100.86	10.45	90.41
CEEMW-13	16.57	6.5-16.5	100.96	10.53	90.43
ME-12	17.94	8.0-18	100.07	10.73	89.34
ME-14	8.54	NA	95.99	5.92	90.07
OW-1	15.40	NA	100.74	10.29	90.45
OW-2	18.45	NA	100.66	10.19	90.47
OW-3	18.25	NA	99.76	9.32	90.44
OW-4	10.57	NA	99.97	9.53	90.44
OW-5	15.27	NA	99.37	8.90	90.47
MW-4	17.96	8.0-18	101.08	10.60	90.48
MW-5	17.98	8.0-18	101.08	10.62	90.46
Intermediate Depth Monitoring Wells					
CEEMW-3I	21.65	19.5-24.5	99.02	8.61	90.41
ME-2	23.62	13-25	101.14	10.73	90.41
Deep Monitoring Wells					
CEEMW-3D	36.35	28-38	99.24	8.84	90.40
CEEMW-10D	36.25	27.5-37.5	101.00	10.50	90.50
ME-13	41.51	32-42	100.05	9.63	90.42
MW-1	43.90	34-44	98.68	8.27	90.41
MW-2	42.75	33-43	99.85	8.43	91.42
MW-3	45.50	36-46	101.42	11.0	90.42

Notes:
Ground elevation and reference point data is based on DTC relative elevation survey, completed on July 3, 2008.
Depth to water measurments were obtained by DTC, July 3, 2008.
NM = Not Measured

TABLE 3

Soil Sample Analytical Results

Task 210 - Subsurface Site Investigation

Litchfield Maintenance Facility

438 Bantam Road, Litchfield, Connecticut

Parameters	Remediation Standard Regulations		SB-1	SB-1	SB-1*	SB-1	SB-2	SB-2	SB-2	SB-2*	SB-3	SB-3	SB-3	SB-4	SB-4	SB-4*
			5-7.5'	10-12.5'	15-17.5'	17.5-20'	7.5-10'	10-12.5'	12.5-14.5'	14.5-16.5'	7.5-10'	10-12.5'	15-17.5'	7.5-10'	10-12.5'	15-17.5'
	I/C DEC	GA PMC	6/17/08	6/17/08	6/17/08	6/17/08	6/17/08	6/17/08	6/27/08	6/27/08	6/17/08	6/17/08	6/17/08	6/17/08	6/17/08	6/17/08
VOCs per EPA 8260 (mg/kg)																
Benzene	200	0.02	--	**8.77**	1.48	--	--	**13.5**	<0.0889	0.178	--	**0.519**	<0.0945	--	<0.0841	<0.161
n-Butylbenzene	1,000	1.4	--	**23.9**	0.155	--	--	**24**	--	--	--	--	--	--	0.172	5.36
sec-Butylbenzene	1,000	1.4	--	**11.3**	--	--	--	**10.9**	--	--	--	--	--	--	--	3.75
Ethylbenzene	1,000	10.1	--	**84.3**	0.991	--	--	**119**	--	0.911	--	0.433	--	--	0.57	14
Isopropylbenzene	1,000	0.6	--	**11.8**	0.0725	--	--	**12.9**	--	0.0191	--	--	--	--	--	2.22
4-isopropyltoluene	1,000	0.6	--	**8.45**	--	--	--	**13.9**	--	--	--	--	--	--	--	0.837
MTBE	1,000	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	2,500	5.6	--	**63.8**	0.349	--	--	**58.7**	--	0.213	--	0.312	--	--	0.334	7.74
n-Propylbenzene	1,000	1.4	--	**43.7**	0.333	--	--	**45.6**	--	0.0545	--	0.253	--	--	0.314	9.42
Toluene	1,000	20	--	**82.6**	3.72	--	--	**287**	--	3.81	0.0056	1.21	0.112	0.0136	1.2	6.18
1,2,4-Trimethylbenzene	1,000	7	--	**406**	1.69	--	--	**362**	--	1.78	--	0.996	--	--	1.5	53.7
1,3,5-Trimethylbenzene	1,000	7	--	**123**	0.569	--	--	**111**	--	0.118	--	0.412	--	--	0.555	20.3
Xylenes	1,000	19.5	--	**880**	5.92	--	--	**913**	--	3.64	--	2.33	--	--	3.8	105.8
ETPH per CTDEP method (mg/kg)	2,500	500	91.8	**1,190**	--	--	--	**742**	--	*NA*	--	78.1	--	--	66.2	--
Total Lead (mg/kg)	1,000	NE	*NA*	3.18	2.11	*NA*	*NA*	1.68	*NA*	*NA*	*NA*	--	--	*NA*	2.6	--

Notes:
I/C DEC = Industrial / Commercial Direct Exposure Criteria
GA PMC = GA Pollutant Mobility Criteria.
mg/kg = milligrams per kilogram.
* GA PMC do not apply to soil below the seasonal Low water table, at least 12.5' below grade.
-- = not detected, see laboratory reports for specific detection limits.
NA = not analyzed for this compound.
NE = Criteria not established.
Shaded values indicate an exceedance of the I/C DEC.
Bold values indicate an exceedance of the GA PMC.
< # = Compound not detected, indicated when detection limit is greater than the RSR criteria.

TABLE 3

Soil Sample Analytical Results

Task 210 - Subsurface Site Investigation

Litchfield Maintenance Facility

438 Bantam Road, Litchfield, Connecticut

Parameters	Remediation Standard Regulations I/C DEC	Remediation Standard Regulations GA PMC	SB-4 17.5-20' 6/17/08	SB-5 10-12.5' 6/17/08	SB-6 10-12.5' 6/17/08	SB-7 10-12.5' 6/17/08	SB-8 7.5-10 6/27/08	SB-9 10-12.5' 6/27/08	SB-9* 12.5-15' 6/27/08	SB-9* 15-17.5' 6/27/08	SB-9* 17.5-20' 6/27/08	SB-10 7.5-10' 6/17/08	SB-10 10-12.5' 6/17/08	SB-10 12.5-14.5' 6/27/08	SB-11 10-12.5' 6/17/08	SB-11* 12.5-15' 6/17/08
VOCs per EPA 8260 (mg/kg)																
Benzene	200	0.02	<0.11	--	--	--	--	--	<6.35	<0.31	0.108	--	**24.1**	--	--	1.93
n-Butylbenzene	1,000	1.4	--	--	--	--	--	--	22.6	1.61	--	--	**29.3**	--	--	21.2
sec-Butylbenzene	1,000	1.4	--	--	--	--	--	--	15.2	0.837	--	--	**17.5**	--	--	14.6
Ethylbenzene	1,000	10.1	--	--	--	--	--	--	136	9.44	0.172	--	**230**	--	--	139
Isopropylbenzene	1,000	0.6	--	--	--	--	--	--	12.2	0.794	0.0056	--	**19.1**	--	--	11.9
4-isopropyltoluene	1,000	0.6	--	--	--	--	--	--	<6.35	--	--	--	**12**	--	--	6.99
MTBE	1,000	2	--	--	--	--	--	--	<6.35	--	--	--	--	--	--	--
Naphthalene	2,500	5.6	0.212	--	--	--	--	--	52.5	4.24	0.0716	--	**75.1**	--	--	47.5
n-Propylbenzene	1,000	1.4	--	--	--	--	--	--	55.3	3.56	0.0166	--	**77**	--	--	52.5
Toluene	1,000	20	--	0.0981	0.128	0.0179	--	0.0078	139	9.56	1.11	--	**472**	--	0.0064	239
1,2,4-Trimethylbenzene	1,000	7	--	--	--	--	--	--	269	20.1	0.93	--	**416**	--	--	277
1,3,5-Trimethylbenzene	1,000	7	--	--	--	--	--	--	91.3	6.37	0.031	--	**131**	--	--	90.1
Xylenes	1,000	19.5	--	--	--	--	--	--	747	49.6	2.208	--	**1,248**	--	--	819
ETPH per CTDEP method (mg/kg)	2,500	500	--	--	--	171	NA	NA	NA	--	NA	--	**3,420**	NA	--	1,010
Total Lead (mg/kg)	1,000	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.75	NA	NA	2

Notes:

I/C DEC = Industrial / Commercial Direct Exposure Criteria

GA PMC = GA Pollutant Mobility Criteria.

mg/kg = milligrams per kilogram.

* GA PMC do not apply to soil below the seasonal Low water table, at least 12.5' be

-- = not detected, see laboratory reports for specific detection limits.

NA = not analyzed for this compound.

NE = Criteria not established.

Shaded values indicate an exceedance of the I/C DEC.

Bold values indicate an exceedance of the GA PMC.

< # = Compound not detected, indicated when detection limit is greater than the RS

TABLE 3

Soil Sample Analytical Results

Task 210 - Subsurface Site Investigation

Litchfield Maintenance Facility

438 Bantam Road, Litchfield, Connecticut

Parameters	Remediation Standard Regulations I/C DEC	Remediation Standard Regulations GA PMC	SB-12 7.5-10' 6/27/08	SB-12 10-12.5' 6/27/08	SB-12* 15-17.5' 6/27/08	SB-13 7.5-10' 6/17/08	SB-13 10-12.5' 6/17/08	SB-13* 14.5-16.5' 6/27/08	SB-14 7.5-10' 6/27/08	SB-14 10-12.5' 6/27/08	SB-14 15-17.5' 6/27/08	SB-14 17.5-20' 6/27/08	SB-15 7.5-10' 6/27/08	SB-15 10-12.5' 6/27/08	SB-15 15-17.5' 6/27/08	SB-16 7.5-10' 6/27/08
VOCs per EPA 8260 (mg/kg)																
Benzene	200	0.02	–	17.4	0.483	–	3.28	0.256	–	<0.0877	<0.134	–	–	<0.624	–	–
n-Butylbenzene	1,000	1.4	–	19.7	1.9	–	15.5	0.622	–	5.7	0.626	–	–	5.27	–	–
sec-Butylbenzene	1,000	1.4	–	5.01	0.799	–	7.18	0.384	–	2.46	0.341	–	–	2.47	–	–
Ethylbenzene	1,000	10.1	–	106	2.34	–	78.1	3.78	–	3.38	0.336	0.0112	–	39	0.0237	–
Isopropylbenzene	1,000	0.6	–	10.2	0.336	–	7.82	0.348	–	0.684	–	–	–	3.98	–	–
4-isopropyltoluene	1,000	0.6	–	3.87	1.48	–	5.32	–	–	1.99	–	–	–	1.71	–	–
MTBE	1,000	2	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Naphthalene	2,500	5.6	–	54.3	4.22	–	34.5	1.69	–	10.1	1.21	0.0126	–	20	0.0113	–
n-Propylbenzene	1,000	1.4	–	42.5	1.5	–	31.1	1.47	–	3.66	0.61	–	–	15.7	–	–
Toluene	1,000	20	–	255	5.14	–	103	4.35	–	4.71	0.445	0.0165	–	17.5	0.0114	–
1,2,4-Trimethylbenzene	1,000	7	–	302	26	–	211	9.12	–	50.5	5.93	0.0551	–	106	0.0525	–
1,3,5-Trimethylbenzene	1,000	7	–	107	10.1	–	65.3	2.97	–	18.4	2.03	0.0175	–	31.6	0.0159	–
Xylenes	1,000	19.5	–	693	21.17	–	487	21.45	–	69	5.07	0.1233	–	244.1	0.1301	–
ETPH per CTDEP method (mg/kg)	2,500	500	NA	1,730	NA	–	1,650	NA	NA	92.5	NA	NA	NA	677	NA	NA
Total Lead (mg/kg)	1,000	NE	NA	NA	NA	NA	2.52	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:
I/C DEC = Industrial / Commercial Direct Exposure Criteria
GA PMC = GA Pollutant Mobility Criteria.
mg/kg = milligrams per kilogram.
* GA PMC do not apply to soil below the seasonal Low water table, at least 12.5' be
– = not detected, see laboratory reports for specific detection limits.
NA = not analyzed for this compound.
NE = Criteria not established.
Shaded values indicate an exceedance of the I/C DEC.
Bold values indicate an exceedance of the GA PMC.
< # = Compound not detected, indicated when detection limit is greater than the RS

TABLE 3

Soil Sample Analytical Results

Task 210 - Subsurface Site Investigation

Litchfield Maintenance Facility

438 Bantam Road, Litchfield, Connecticut

Parameters	Remediation Standard Regulations I/C DEC	Remediation Standard Regulations GA PMC	SB-16 10-12.5' 6/27/08	SB-16 15-17.5' 6/27/08	SB-17 7.5-10' 6/27/08	SB-17 10-12.5' 6/27/08	Duplicate SB-17 (10-12.5') 6/27/08	MW-4 9-11' 6/13/08	MW-5 9-11' 6/13/08	Trip Blank 6/17/08	Trip Blank 6/27/08
VOCs per EPA 8260 (mg/kg)											
Benzene	200	0.02	<0.55	0.0063	–	<0.0987	<0.126	–	–	<0.05	<0.05
n-Butylbenzene	1,000	1.4	**31.1**	0.0095	–	1.27	0.709	–	–	–	–
sec-Butylbenzene	1,000	1.4	**15.8**	–	–	0.408	0.353	–	–	–	–
Ethylbenzene	1,000	10.1	**156**	0.86	–	0.437	0.539	–	–	–	–
Isopropylbenzene	1,000	0.6	**15.7**	0.0088	–	0.314	0.212	–	–	–	–
4-isopropyltoluene	1,000	0.6	**10.9**	–	–	0.283	–	–	–	–	–
MTBE	1,000	2	–	–	–	–	–	–	–	–	–
Naphthalene	2,500	5.6	**76**	0.698	–	0.727	1.07	–	–	–	–
n-Propylbenzene	1,000	1.4	**70.6**	0.8	–	**1.66**	1.16	–	–	–	–
Toluene	1,000	20	**33.2**	0.0501	–	–	–	0.12	0.0149	–	–
1,2,4-Trimethylbenzene	1,000	7	**410**	2.3	–	7.57	6.36	–	–	–	–
1,3,5-Trimethylbenzene	1,000	7	**131**	1.06	–	2.33	2.05	–	–	–	–
Xylenes	1,000	19.5	**838**	4.254	–	2.058	2.982	–	–	–	–
ETPH per CTDEP method (mg/kg)	2,500	500	**1,191**	*NA*	*NA*	340	51.1	–	–	*NA*	*NA*
Total Lead (mg/kg)	1,000	NE	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*	*NA*

Notes:

I/C DEC = Industrial / Commercial Direct Exposure Criteria

GA PMC = GA Pollutant Mobility Criteria.

mg/kg = milligrams per kilogram.

* GA PMC do not apply to soil below the seasonal Low water table, at least 12.5' be

– = not detected, see laboratory reports for specific detection limits.

NA = not analyzed for this compound.

NE = Criteria not established.

Shaded values indicate an exceedance of the I/C DEC.

Bold values indicate an exceedance of the GA PMC.

< # = Compound not detected, indicated when detection limit is greater than the RE

TABLE 3

Soil Sample Analytical Results

Task 210 - Subsurface Site Investigation

Litchfield Maintenance Facility

438 Bantam Road, Litchfield, Connecticut

Parameters	Remediation Standard Regulations I/C DEC	Remediation Standard Regulations GA PMC	SB-18 10-12.5' 10/30/08	SB-19 12.5-15' 10/30/08	SB-19 15-17.5' 10/30/08	SB-19 17.5-20' 10/30/08	SB-20 12.5-15' 10/30/08	SB-20 15-17.5' 10/30/08	SB-20 20-22.5' 10/30/08	SB-21 12.5-15' 10/30/08	SB-22 12.5-15' 10/30/08	SB-23 10-12.5' 10/30/08	SB-24 12.5-15' 10/30/08	SB-25 10-12.5' 10/30/08	SB-26 7.5-10' 10/30/08	SB-25 10-12.5' 10/30/08	Duplicate SB-26 (10-12.5') 10/30/08	SB-26 15-17.5' 10/30/08
VOCs per EPA 8260 (mg/kg)																		
Benzene	200	0.02	–	–	0.0043	<0.071	–	–	–	–	–	–	–	–	–	<6.33	<5.96	0.0964
n-Butylbenzene	1,000	1.4	–	–	–	–	–	–	–	–	–	–	–	–	–	51.1	22.6	0.158
sec-Butylbenzene	1,000	1.4	–	–	–	–	–	–	–	–	–	–	–	–	–	13.9	6.08	0.0128
Ethylbenzene	1,000	10.1	–	–	–	–	–	–	–	–	–	–	–	–	–	241	93	0.741
Isopropylbenzene	1,000	0.8	–	–	–	–	–	–	–	–	–	–	–	–	–	27.1	11	0.027
4-isopropyltoluene	1,000	0.6	–	–	–	–	–	–	–	–	–	–	–	–	–	8.67	<5.96	0.01
MTBE	1,000	2	–	–	–	–	–	–	–	–	–	–	–	–	–	<6.33	–	–
Naphthalene	2,500	5.6	–	–	0.0064	–	–	–	–	–	–	–	–	–	–	103	46.7	0.353
n-Propylbenzene	1,000	1.4	–	–	–	–	–	–	–	–	–	–	–	–	–	125	50.8	0.319
Toluene	1,000	20	–	–	–	–	–	–	–	–	–	–	–	–	–	337	124	1.44
1,2,4-Trimethylbenzene	1,000	7	–	–	–	–	–	–	–	–	–	–	–	–	–	669	328	2.08
1,3,5-Trimethylbenzene	1,000	7	–	–	–	–	–	–	–	–	–	–	–	–	–	228	108	0.679
Xylenes	1,000	19.5	–	–	–	–	–	–	–	–	–	–	–	–	–	1,353	551	4.02
ETPH per CTDEP method (mg/kg)	2,500	500	NA	NA	NA	–	NA	–	NA	NA	NA	NA	NA	NA	–	3,020^	1,090^	–
Total Lead (mg/kg)	1,000	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:
I/C DEC = Industrial / Commercial Direct Exposure Criteria
GA PMC = GA Pollutant Mobility Criteria.
mg/kg = milligrams per kilogram.
* GA PMC do not apply to soil below the seasonal Low water table, at least 12.5' below grade.
– = not detected, see laboratory reports for specific detection limits.
NA = not analyzed for this compound.
NE = Criteria not established.
Shaded values indicate an exceedance of the I/C DEC.
Bold values indicate an exceedance of the GA PMC.
< # = Compound not detected, indicated when detection limit is greater than the RSR criteria.
^ = Lab report indicated gasoline.

TABLE 4

Groundwater Sample Analytical Results

Task 210 - Subsurface Site Investigation

Litchfield Maintenance Facility

438 Bantam Road, Litchfield, Connecticut

	Remediation Standard Regulations			MW-1	MW-2	MW-3	MW-4	MW-5	Duplicate (MW-5)	Field Blank	Trip Blank
	Proposed I/C VC	GWPC	SWPC	7/16/08	7/16/08	7/16/08	7/16/08	7/16/08	7/16/08	7/16/08	
VOCs per EPA 8260 (ug/l)											
Benzene	310	1	710	--	**109**	--	--	--	--	--	--
n-Butylbenzene	21,000	61	NE	--	4.9	--	--	--	--	--	--
sec-Butylbenzene	20,000	61	NE	--	2.5	--	--	--	--	--	--
Ethylbenzene	36,000	700	580,000	--	72.6	--	--	--	--	--	--
Isopropylbenzene	6,800	30	NE	--	25.2	--	--	--	--	--	--
MTBE	50,000	100	NE	--	2.3	6	--	--	--	--	--
Naphthalene	NE	280	NE	--	7.6	--	--	--	--	--	--
n-Propylbenzene	NE	61	NE	--	45.6	--	--	--	--	--	--
Toluene	41,000	1,000	4,000,000	--	4.4	--	--	--	--	--	--
1,3,5-Trimethylbenzene	3,900	350	NE	--	149	--	--	--	--	--	--
Xylenes	48,000	530	NE	--	8.4	--	--	--	--	--	--

Notes:
SWPC = Surface Water Protection Criteria.
Proposed I/C VC = revised criteria proposed by the DEP in a March 2003 document for an industrial/commericial site.
GWPC = Groundwater Protection Criteria.
VOCs = volatile organic compounds.
NE = no criteria established.
ug/l = micrograms per liter.
ND = not detected.
Bold and shaded values indicate an exceedance of RSR criteria.

TABLE 5

Soil Vapor Sample Analytical Results

Task 210- Subsurface Site Investigation

Litchfield Maintenance Facility

438 Bantam Road, Litchfield, Connecticut

Parameters	Remediation Standard Regulations			Sample #	SV-1	SV-2	SV-3	Duplicate (SV-3)
	I/C SVVC (1996)	Proposed I/C SVVC (2003)	SEH Reporting Limit		10/24/08	10/24/08	10/24/08	10/24/08
AVOCs per EPA TO-15 (ppmv)								
1,4-Dichlorobenzene	3,270	5.5	98,100		--	--	0.00066	0.00066
Ethylbenzene	5,672	93	170,160		0.0018	--	--	--
Isopropylbenzene	NE	34	NE		0.0009	--	--	--
p-Isopropyltoluene	NE	94	NE		0.0034	--	--	--
sec-Butylbenzene	NE	100	NE		0.0014	--	--	--
Styrene	28	95	840		--	--	0.00076	0.00075
Toluene	2,615	180	78,450		0.015	0.0015	0.0059	0.0059
1,2,4-Trimethylbenzene	NE	15	NE		0.02	0.00079	0.00099	0.00098
1,3,5-Trimethylbenzene	NE	15	NE		0.008	--	--	--
Xylenes	1,702	160	51,060		0.012	0.00254	0.00231	0.0023
Isopropyl alcohol	NE	NE	NE		0.0016	0.0015	0.009	0.0093

Notes:
I/C SVVC (1996) = Industrial/Commercial Soil Vapor Volatilization Criteria in RSRs.
Proposed I/C SVVC (2003) = Industrial/Commercial Soil Vapor Volatilization Criteria per March 2003 DEP draft document.
AVOC = Aromatic Volatile Organic Compounds.
SEH = Significant Environmental Hazard notification concentration (30x 1996 I/C SVVC).
RSRs = Remediation Standard Regulations.
ppmv = parts per million per volume
-- = not detected, see laboratory reports for specific detection limits.
NE = criteria not established.
Shaded values indicate an exceedance of the Proposed I/C SVVC (2003).

APPENDIX A

Soil Boring and Monitoring Well Logs

DIVERSIFIED TECHNOLOGY CONSULTANTS	Subsurface Log	Sheet	Date started: 6/17/08 Date Completed: 6/17/08	BORING No. SB-1
	Project: DOT Litchfield Task 210 Location: Litchfield, CT			Method of investigation: Geoprobe

Project No.: 03-273-35E	Drilling Co.: Logical Env. Solutions	Driller: Wayne	Drill Rig: Geoprobe	Weather: 70s
P. Manager: Chris Koelle	Geologist: Ethan Stewart	D. Helper: C. Knight		

Depth (ft.)	Sample No.	Sample Depth (ft.)	Blows per 6"	"N"	Recovery (in.)	Sample Description	Field Analytical Readings	Groundwater and Other Observations
0-5	1	0-2.5			29	4" Asphalt. Brown SILT and medium-fine sand, some gravel, trace asphalt. Bottom 4"-moist.	1.1	
5-10	2	5-7.5			29	SAA, piece of plastic in tip	2.5	
10-15	3	10-12			24	Brown/grey/black medium-fine SAND. Wet at 12', strong odor.	2,790	GW @ 12'
15-20	4	15-17.5			54	Grey medium-coarse SAND, some gravel, wet, odor.	485	
	5	17.5-19.5				Grey fine SAND, little gravel.	23.9	

Sample Types:
S=Split Spoon: _____ T= Shelby Tube: _____
R= Rock Core: _____ O = Other: _____
N = ASTM D1586

Comments:
SAA = Same as Above

DIVERSIFIED TECHNOLOGY CONSULTANTS	Subsurface Log	Sheet	Date started: 6/26/08 Date Completed: 6/26/08	BORING No. SB-2
	Project: DOT Litchfield Task 210 Location: Litchfield, CT			Method of investigation: Geoprobe
Project No.: 03-273-35E P. Manager: Chris Koelle	Drilling Co.: Logical Env. Solutions Geologist: Ethan Stewart		Driller: Wayne D. Helper: C. Knight	Drill Rig: Geoprobe Weather: 70s

Depth (ft.)	Sample No.	Sample Depth (ft.)	Blows per 6"	"N"	Recovery (in.)	Sample Description	Field Analytical Readings	Groundwater and Other Observations
0-5	1	0-2.5			29	6" Asphalt. 1' road base material. 6" Dark dense brown SILT, some gravel. 6" brown SILT-moist.	1.6	
5-10	2	5-7.5			44	6" SAA. Brown medium SAND and gravel.	1.2	
	3	7.5-8.5				SAA	2.1	
10-14.5	4	10-12			24	Brown/grey medium-fine SAND, some gravel. Wet at 11.5', strong odor.	2,399	GW @ 11.5'
						Grey medium-fine SAND, wet.	739	
14.5-16.5	5	14.5-15.5			10	Grey/brown medium-fine SAND	22.1	

Sample Types:
S=Split Spoon: _____ T= Shelby Tube: _____
R= Rock Core: _____ O = Other: _____
N = ASTM D1586

Comments:
SAA = same as above

DIVERSIFIED TECHNOLOGY CONSULTANTS	Subsurface Log	Sheet	Date started: 6/17/08 Date Completed: 6/17/08	BORING No. SB-3
	Project: DOT Litchfield Task 210 Location: Litchfield, CT			Method of investigation: Geoprobe

Project No.: 03-273-35E	Drilling Co.: Logical Env. Solutions	Driller: Wayne	Drill Rig: Geoprobe	Weather: 70s
P. Manager: Chris Koelle	Geologist: Ethan Stewart	D. Helper: C. Knight		

Depth (ft.)	Sample No.	Sample Depth (ft.)	Blows per 6"	"N"	Recovery (in.)	Sample Description	Field Analytical Readings	Groundwater and Other Observations
0-5	1	0-2.5			48	4" Asphalt. Brown SILT and medium sand, with gravel.	1.7	
	2	2.5-4				Dense dark brown SILT, some gravel, crushed rock, little medium sand, moist.	1.7	
5-10	3	5-7.5			48	Brown medium SAND, some gravel, little crushed rock.	3	
	4	7.5-9				Light brown medium SAND, some gravel, little crushed rock.	2.5	
10-15	5	10-12.5			29	1' SAA. 1.5' Brown/grey medium-fine SAND, some gravel. Wet at 11.5', strong odor.	1,530	GW @11.5'
15-20	6	15-17.5			48	Grey/brown medium-fine SAND, wet, odor.	30.4	
	7	17.5-19				Grey fine SAND, wet, odor.	15.9	

Sample Types:
S=Split Spoon: _____ T= Shelby Tube: _____
R= Rock Core: _____ O = Other: _____
N = ASTM D1586

Comments:
SAA = same as above

DIVERSIFIED TECHNOLOGY CONSULTANTS	Subsurface Log	Sheet	Date started: 6/17/08 Date Completed: 6/17/08	BORING No. SB-4
	Project: DOT Litchfield Task 210 Location: Litchfield, CT			Method of investigation: Geoprobe

Project No.: 03-273-35E	Drilling Co.: Logical Env. Solutions	Driller: Wayne	Drill Rig: Geoprobe	Weather: 70s
P. Manager: Chris Koelle	Geologist: Ethan Stewart	D. Helper: C. Knight		

Depth (ft.)	Sample No.	Sample Depth (ft.)	Blows per 6"	"N"	Recovery (in.)	Sample Description	Field Analytical Readings	Groundwater and Other Observations
0-5	1	0-2.5			60	4" Asphalt. Brown SILT, some medium sand, crushed rock. Dense SILT at the bottom 3".	2.1	
	2	2.5-5				8" Dense dark brown SILT and m-f sand. Brown dense silt, f-sand, moist.	1.6	
5-10	3	5-7.5			53	6" SAA, moist. 2" Brown m-c sand with gravel.	0.8	
	4	7.5-9.5				SAA, some crushed rock.	2.1	
10-15	5	10-12.5			29	1" Brown m-c SAND, with gravel, some crushed rock. Grey/brown m-SAND, trace gravel, wet, odor.	1,170	GW @ 11'
15-20	6	15-17.5			60	SAA, odor.	468	
	7	17.5-20				SAA, odor.	77.5	

Sample Types:
S=Split Spoon: _____ T= Shelby Tube: _____
R= Rock Core: _____ O = Other: _____
N = ASTM D1586

Comments:
SAA = same as above

DIVERSIFIED TECHNOLOGY CONSULTANTS	Subsurface Log	Sheet	Date started: 6/17/08 Date Completed: 6/17/08	BORING No. SB-5
	Project: DOT Litchfield Task 210 Location: Litchfield, CT			Method of investigation: Geoprobe

Project No.: 03-273-35E	Drilling Co.: Logical Env. Solutions	Driller: Wayne	Drill Rig: Geoprobe	Weather: 70s
P. Manager: Chris Koelle	Geologist: Ethan Stewart	D. Helper: C. Knight		

Depth (ft.)	Sample No.	Sample Depth (ft.)	Blows per 6"	"N"	Recovery (in.)	Sample Description	Field Analytical Readings	Groundwater and Other Observations
0-5	1	0-2.5			48	4" Asphalt. Brown SILT, and fine sand, some gravel, crushed rock.	0.9	
	2	2.5-4				Brown/grey dense SILT, some m-sand, moist. Bottom 6" brown dense SILT, moist.	1	
5-10	3	5-7.5			48	Brown SILT, with m-f sand, some gravel.	1.8	
	4	7.5-9				Brown m-c SAND, some crushed rock, little rounded gravel.	1.2	
10-15	5	10-12.5			29	Brown m-f SAND, some gravel, wet at 11'.	1,170	GW 11'
15-20	6	15-17.5			29	Brown m-c SAND, some gravel, wet.	3.8	

Sample Types:
S=Split Spoon: _____ T= Shelby Tube: _____
R= Rock Core: _____ O = Other: _____
N = ASTM D1586

Comments:

DIVERSIFIED TECHNOLOGY CONSULTANTS	Subsurface Log	Sheet	Date started: 6/17/08 Date Completed: 6/17/08	BORING No. SB-6
	Project: DOT Litchfield Task 210 Location: Litchfield, CT			Method of investigation: Geoprobe

Project No.: 03-273-35E	Drilling Co.: Logical Env. Solutions	Driller: Wayne	Drill Rig: Geoprobe	Weather: 70s
P. Manager: Chris Koelle	Geologist: Ethan Stewart	D. Helper: C. Knight		

Depth (ft.)	Sample No.	Sample Depth (ft.)	Blows per 6"	"N"	Recovery (in.)	Sample Description	Field Analytical Readings	Groundwater and Other Observations
0-5	1	0-2.5			29	4" Asphalt. Brown m-SAND, some gravel, little crushed rock. Bottom 6" dense silt, some f-sand, moist.	1.9	
5-10	2	5-7.5			53	6" Dense brown SILT. Brown m-c sand, with gravel.	1.6	
	3	7.5-9.5				Brown m-c SAND, with gravel, wet at tip.	1.2	
10-15	4	10-12.5			29	Brown m-f SAND, trace gravel, wet 11.5'.	2.3	GW 11.5'
15-20	5	15-17.5			29	Brown medium SAND, little gravel, wet.	2.1	

Sample Types:
S=Split Spoon: _____ T= Shelby Tube: _____
R= Rock Core: _____ O = Other: _____
N = ASTM D1586

Comments:

DIVERSIFIED TECHNOLOGY CONSULTANTS	Subsurface Log	Sheet	Date started: 6/17/08 Date Completed: 6/17/08	BORING No. SB-7
	Project: DOT Litchfield Task 210 Location: Litchfield, CT			Method of investigation: Geoprobe
Project No.: 03-273-35E P. Manager: Chris Koelle	Drilling Co.: Logical Env. Solutions Geologist: Ethan Stewart		Driller: Wayne D. Helper: C. Knight	Drill Rig: Geoprobe Weather: 70s

Depth (ft.)	Sample No.	Sample Depth (ft.)	Blows per 6"	"N"	Recovery (in.)	Sample Description	Field Analytical Readings	Groundwater and Other Observations
0-5	1	0-2.5			41	6" Asphalt. Brown SILT, some m-f sand, gravel, trace brick, asphalt.	1.2	
	2	2.5-3.5				SAA	1.2	
5-10	3	5-7.5			53	Brown SILT, some m-sand, little gravel, moist.	2.5	
	4	7.5-9.5						
10-15	5	10-11.75			21	SAA, wet 11'. 6" of gravel	3	GW 11'
15-20	6	15-17.5			36	Brown c-SAND, with gravel, wet.	1	
	7	17.5-18				Brown/grey m-f SAND, little gravel.	1.9	

Sample Types:
S=Split Spoon: _____ T= Shelby Tube: _____
R= Rock Core: _____ O = Other: _____
N = ASTM D1586

Comments:
SAA = same as above

DIVERSIFIED TECHNOLOGY CONSULTANTS	Subsurface Log	Sheet	Date started: 6/17/08 Date Completed: 6/26/08	BORING No. SB-8
	Project: DOT Litchfield Task 210 Location: Litchfield, CT			Method of investigation: Geoprobe

Project No.: 03-273-35E	Drilling Co.: Logical Env. Solutions	Driller: Wayne	Drill Rig: Geoprobe	Weather: 70s
P. Manager: Chris Koelle	Geologist: Ethan Stewart	D. Helper: C. Knight		

Depth (ft.)	Sample No.	Sample Depth (ft.)	Blows per 6"	"N"	Recovery (in.)	Sample Description	Field Analytical Readings	Groundwater and Other Observations
0-5	1	0-2.5			54	6" Asphalt. Brown SILT, and gravel, some m-sand.	0.8	
	2	2.5-4.5				SAA. Bottom 8" dark brown dense silt.	1	
5-10	3	5-7.5			48	Brown m-SAND, some silt, little gravel.	0.6	
	4	7.5-9				Brown m-c SAND, with gravel, bottom 5"-wet	0.2	GW 9.5'
10-15	5	10-12			24	Brown m-c SAND with fine gravel.	0.3	
15-20	6	15-17			24	Brown c-SAND, wet.	0.6	

Sample Types:
S=Split Spoon: _____ T= Shelby Tube: _____
R= Rock Core: _____ O = Other: _____
N = ASTM D1586

Comments:
SAA = Same as above

DIVERSIFIED TECHNOLOGY CONSULTANTS	Subsurface Log	Sheet	Date started: 6/26/08 Date Completed: 6/26/08	BORING No. SB-9
	Project: DOT Litchfield Task 210 Location: Litchfield, CT			Method of investigation: Geoprobe

Project No.: 03-273-35E	Drilling Co.: Logical Env. Solutions	Driller: Wayne	Drill Rig: Geoprobe	Weather: 70s
P. Manager: Chris Koelle	Geologist: Ethan Stewart	D. Helper: C. Knight		

Depth (ft.)	Sample No.	Sample Depth (ft.)	Blows per 6"	"N"	Recovery (in.)	Sample Description	Field Analytical Readings	Groundwater and Other Observations
0-5	1	0-2.5			54	6" Asphalt. Brown m-SAND, some gravel, asphalt.	0.1	
	2	2.5-4.5				Dark brown SILT, little grave, moist. Bottom 6"-brown f-m sand, some gravel.	0	
5-10	3	5-7.5			48	Brown f-m SAND with gravel.	0	
	4	7.5-9				SAA, wet tip.	0	
10-15	5	10-12.5			48	SAA, wet, odor.	5.9	GW 11'
	6	12.5-14				SAA (3' grey layer, 6' from the bottom)	1,350	
15-20	7	15-17.5			54	Brown/grey m-SAND, with gravel, wet, odor.	1,936	
	8	17.5-19.5				SAA	91.1	

Sample Types:
S=Split Spoon: _____ T= Shelby Tube: _____
R= Rock Core: _____ O = Other: _____
N = ASTM D1586

Comments:
SAA = *same as above*

DIVERSIFIED TECHNOLOGY CONSULTANTS	Subsurface Log	Sheet	Date started: 6/26/08 Date Completed: 6/26/08	BORING No. SB-10
	Project: DOT Litchfield Task 210 Location: Litchfield, CT			Method of investigation: Geoprobe

Project No.: 03-273-35E	Drilling Co.: Logical Env. Solutions	Driller: Wayne	Drill Rig:	Weather:
P. Manager: Chris Koelle	Geologist: Ethan Stewart	D. Helper: C. Knight	Geoprobe	70s

Depth (ft.)	Sample No.	Sample Depth (ft.)	Blows per 6"	"N"	Recovery (in.)	Sample Description	Field Analytical Readings	Groundwater and Other Observations
0-5	1	0-2.5			54	5" Asphalt. Brown m-SAND, with gravel, some silt. 6" Dense grey silt, trace gravel, moist.	2	
	2	2.5-4.5				1' SAA. 6" Brown SILT, some gravel, little m-sand, moist.	2.1	
5-10	3	5-7.5			54	Brown m-SAND, with silt, some gravel.	0.9	
	4	7.5-9.5				Brown m-SAND and gravel.	3	
10-14.5	5	10-12.5			48	Brown/grey m-SAND, some gravel, odor, wet 11.5'.	1,949	GW 11.5'
	6	12.5-14				SAA, wet.	10.1	

Sample Types:
S=Split Spoon: _____ T= Shelby Tube: _____
R= Rock Core: _____ O = Other: _____
N = ASTM D1586

Comments:
SAA = same as above

DIVERSIFIED TECHNOLOGY CONSULTANTS	Subsurface Log	Sheet	Date started: 6/17/08 Date Completed: 6/17/08	BORING No. SB-11
	Project: DOT Litchfield Task 210 Location: Litchfield, CT			Method of investigation: Geoprobe

Project No.: 03-273-35E	Drilling Co.: Logical Env. Solutions	Driller: Wayne	Drill Rig: Geoprobe	Weather: 70s
P. Manager: Chris Koelle	Geologist: Ethan Stewart	D. Helper: C. Knight		

Depth (ft.)	Sample No.	Sample Depth (ft.)	Blows per 6"	"N"	Recovery (in.)	Sample Description	Field Analytical Readings	Groundwater and Other Observations
0-5	1	0-2			24	8" Concrete. Brown m-SAND, some fine gravel, little silt, crushed rock, bottom 6"is with silt.	2.2	
5-10	2	5-7.5			48	Brown m-SAND, some silt, gravel, 6" wet layer at 7'.	0.9	
	3	7.5-9				Brown m-c SAND, with gravel, some crushed rock, little silt.	0.9	
10-15	4	10-12.5			54	SAA	1.2	
	5	12.5-14.5				Brown/grey m-f SAND, little gravel, wet, odor.	2,284	GW @ 13'

Sample Types:
S=Split Spoon: _____ T= Shelby Tube: _____
R= Rock Core: _____ O = Other: _____
N = ASTM D1586

Comments:
SAA = same as above

DIVERSIFIED TECHNOLOGY CONSULTANTS	Subsurface Log	Sheet	Date started: 6/26/08 Date Completed: 6/26/08	BORING No. SB-12
	Project: DOT Litchfield Task 210 Location: Litchfield, CT			Method of investigation: Geoprobe

Project No.: 03-273-35E	Drilling Co.: Logical Env. Solutions	Driller: Wayne	Drill Rig: Geoprobe	Weather: 70s
P. Manager: Chris Koelle	Geologist: Ethan Stewart	D. Helper: C. Knight		

Depth (ft.)	Sample No.	Sample Depth (ft.)	Blows per 6"	"N"	Recovery (in.)	Sample Description	Field Analytical Readings	Groundwater and Other Observations
0-5	1	0-2.5			48	6" Asphalt. Brown SILT, some gravel, little f-m sand.	0.7	
	2	2.5-4				Dense brown SILT, little f-sand, moist.	0.8	
5-10	3	5-7.5			48	6" Brown SILT, little sand. Brown m-sand with fine gravel.	0	
	4	7.5-9				SAA, wet bottom 3'.	0	
10-15	5	10-12			24	Brown/grey m-c SAND, odor, wet.	2,450	GW @ 10'
15-20	6	15-17			24	SAA	1,585	

Sample Types:
S=Split Spoon: _____ T= Shelby Tube: _____
R= Rock Core: _____ O = Other: _____
N = ASTM D1586

Comments:
SAA = same as above

DIVERSIFIED TECHNOLOGY CONSULTANTS	Subsurface Log	Sheet	Date started: 6/26/08 Date Completed: 6/26/08	BORING No. SB-13
	Project: DOT Litchfield Task 210 Location: Litchfield, CT			Method of investigation: Geoprobe

Project No.: 03-273-35E	Drilling Co.: Logical Env. Solutions	Driller: Wayne	Drill Rig:	Weather:
P. Manager: Chris Koelle	Geologist: Ethan Stewart	D. Helper: C. Knight	Geoprobe	70s

Depth (ft.)	Sample No.	Sample Depth (ft.)	Blows per 6"	"N"	Recovery (in.)	Sample Description	Field Analytical Readings	Groundwater and Other Observations
0-5	1	0-2.5			30	1' Asphalt, 1' Brown/black SILT, some gravel-dense. 6" Brown silt-dense/moist.	1.8	
5-10	2	5-7.5			48	Brown m-SAND and gravel.	4.6	
	3	7.5-9				SAA, moist to wet bottom 2'.	3.6	
10-14.5	4	10-12.5			48	1' Brown m-SAND, wet, odor. 1.5' grey m-c sand, wet, odor.	1,941	GW @ 10.5'
	5	12.5-14				Brown m-SAND, wet.	458	
14.5-18.5	6	14.5-15			6	Brown/grey m-c SAND, odor, wet.	405	

Sample Types:
S=Split Spoon: _____ T= Shelby Tube: _____
R= Rock Core: _____ O = Other: _____
N = ASTM D1586

Comments:
SAA = same as above

DIVERSIFIED TECHNOLOGY CONSULTANTS	Subsurface Log	Sheet	Date started: 6/26/08 Date Completed: 6/26/08	BORING No. SB-14
	Project: DOT Litchfield Task 210 Location: Litchfield, CT			Method of investigation: Geoprobe

Project No.: 03-273-35E	Drilling Co.: Logical Env. Solutions	Driller: Wayne	Drill Rig: Geoprobe	Weather: 70s
P. Manager: Chris Koelle	Geologist: Ethan Stewart	D. Helper: C. Knight		

Depth (ft.)	Sample No.	Sample Depth (ft.)	Blows per 6"	"N"	Recovery (in.)	Sample Description	Field Analytical Readings	Groundwater and Other Observations
0-5	1	0-2.5			60	6" Asphalt. 6" Brown m-f SAND, with silt, some gravel.	0	
	2	2.5-5				Brown dense silt, some f-sand. Bottom 6" light brown silt and f-sand.	0.1	
5-10	3	5-7.5			48	Brown m-SAND, with gravel.	0.1	
	4	7.5-9				SAA	0.1	
10-15	5	10-12			24	SAA, wet, odor. Bottom 2' are grey.	1,366	GW @ 10.5'
15-20	6	15-17.5			48	Grey/black m-SAND, some f-sand, fine gravel, wet, odor.	1,190	
	7	17.5-19				Grey m-f SAND, wet.	11.1	

Sample Types:
S=Split Spoon: _____ T= Shelby Tube: _____
R= Rock Core: _____ O = Other: _____
N = ASTM D1586

Comments:
SAA = same as above

DIVERSIFIED TECHNOLOGY CONSULTANTS	Subsurface Log	Sheet	Date started: 6/26/08 Date Completed: 6/26/08	BORING No. SB-15
	Project: DOT Litchfield Task 210 Location: Litchfield, CT			Method of investigation: Geoprobe
Project No.: 03-273-35E P. Manager: Chris Koelle	Drilling Co.: Logical Env. Solutions Geologist: Ethan Stewart		Driller: Wayne D. Helper: C. Knight	Drill Rig: Geoprobe Weather: 70s

Depth (ft.)	Sample No.	Sample Depth (ft.)	Blows per 6"	"N"	Recovery (in.)	Sample Description	Field Analytical Readings	Groundwater and Other Observations
0-5	1	0-2.5			54	6" Asphalt. 6" Brown m-SAND, some silt, gravel.	2.1	
	2	2.5-4.5				Grey/brown SILT, some gravel dense. Bottom 8" brown silt, some m-f sand-dense.	1.1	
5-10	3	5-7.5			48	Brown m-SAND, and gravel.	0.4	
	4	7.5-9				SAA	0	
10-15	5	10-12.5			30	6" SAA. Brown c-sand,wet 11'. 6" Grey/brown m-sand, wet, odor.	2,570	GW @ 11'
15-20	6	15-17.5			30	Grey m-f SAND, little gravel, wet.	35.1	

Sample Types:
S=Split Spoon: _____ T= Shelby Tube: _____
R= Rock Core: _____ O = Other: _____
N = ASTM D1586

Comments:
SAA = same as above

DIVERSIFIED TECHNOLOGY CONSULTANTS	Subsurface Log	Sheet	Date started: 6/26/08 Date Completed: 6/26/08	BORING No. SB-16
	Project: DOT Litchfield Task 210 Location: Litchfield, CT			Method of investigation: Geoprobe

Project No.: 03-273-35E	Drilling Co.: Logical Env. Solutions	Driller: Wayne	Drill Rig: Geoprobe	Weather: 70s
P. Manager: Chris Koelle	Geologist: Ethan Stewart	D. Helper: C. Knight		

Depth (ft.)	Sample No.	Sample Depth (ft.)	Blows per 6"	"N"	Recovery (in.)	Sample Description	Field Analytical Readings	Groundwater and Other Observations
0-5	1	0-2.5			54	6" Asphalt. 6" Brown m-SAND, and gravel, trace asphalt. Grey/brown SILT, some gravel dense.	0.2	
	2	2.5-4.5				6" Dark brown SILT, little gravel, dense. Brown silt, with f-sand, little gravel.	0	
5-10	3	5-7.5			48	Brown m-SAND, with fine gravel.	0	
	4	7.5-9				6"Brown m-c SAND, with gravel. 6" Brown f-sand, stratified. 6" Brown m-c sand, wet bottom 3".	0	GW @ 8.5'
10-15	5	10-12.5			30	Brown m-c SAND, with gravel. Grey m-c SAND with gravel, odor	1,740	
15-20	6	15-17.5			30	Brown c-SAND with small gravel.	98.2	

Sample Types:

S=Split Spoon: _____ T= Shelby Tube: _____

R= Rock Core: _____ O = Other: _____

N = ASTM D1586

Comments:

DIVERSIFIED TECHNOLOGY CONSULTANTS	Subsurface Log	Sheet	Date started: 6/26/08 Date Completed: 6/26/08	BORING No. SB-17
	Project: DOT Litchfield Task 210 Location: Litchfield, CT			Method of investigation: Geoprobe

Project No.: 03-273-35E	Drilling Co.: Logical Env. Solutions	Driller: Wayne	Drill Rig: Geoprobe	Weather: 70s
P. Manager: Chris Koelle	Geologist: Ethan Stewart	D. Helper: C. Knight		

Depth (ft.)	Sample No.	Sample Depth (ft.)	Blows per 6"	"N"	Recovery (in.)	Sample Description	Field Analytical Readings	Groundwater and Other Observations
0-5	1	0-2.5			60	8" Asphalt. Brown SILT, with gravel, some m-sand.	0.2	
	2	2.5-5				1'Dark brown SILT, some gravel, very dense. 1.5' Brown dense silt, little fine sand.	0	
5-10	3	5-7.5			48	Brown m-c SAND and gravel.	0.2	
	4	7.5-9				SAA, wet 9'.	0	GW @ 9'
10-15	5	10-12.5			30	Grey/brown c-SAND, wet, odor.	1,954	

Sample Types:
S=Split Spoon: _____ T= Shelby Tube: _____
R= Rock Core: _____ O = Other: _____
N = ASTM D1586

Comments:
SAA = same as above

DIVERSIFIED TECHNOLOGY CONSULTANTS	Subsurface Log	Sheet	Date started: 10/30/08 Date Completed: 10/30/08	BORING No. SB-18
	Project: DOT Litchfield Task 210 Location: Litchfield, CT			Method of investigation: Geoprobe

Project No.: 03-273-35E	Drilling Co.: Glacier Drilling	Driller:	Drill Rig: Geoprobe	Weather: 60s
P. Manager: Chris Koelle	Geologist: Ethan Stewart	D. Helper:		

Depth (ft.)	Sample No.	Sample Depth (ft.)	Blows per 6"	"N"	Recovery (in.)	Sample Description	Field Analytical Readings	Groundwater and Other Observations
0-5	1	0-2.5			50	6" Brown topsoil, organics. Brown SILT, fine sand, little gravel.	0.1	
	2	2.5-4				SAA. 6' medium SAND, with rock/gravel.	0.1	
5-10	3	5-7.5			50	Brown medium SAND, some gravel, moist.	0.1	
	4	7.5-9				SAA, wet bottom.	0.1	
10-15	5	10-12.5			50	SAA, wet.	0.1	GW @ 10.5'
	6	12.5-14				Brown fine SAND, wet.	0.1	
15-20	7	15-17.5			60	SAA	0	
	8	17.5-20				SAA	0	

Sample Types:
S=Split Spoon: _____ T= Shelby Tube: _____
R= Rock Core: _____ O = Other: _____
N = ASTM D1586

Comments:
SAA = same as above

DIVERSIFIED TECHNOLOGY CONSULTANTS	Subsurface Log	Sheet	Date started: 10/30/08 Date Completed: 10/30/08	BORING No. SB-19
	Project: DOT Litchfield Task 210 Location: Litchfield, CT			Method of investigation: Geoprobe

Project No.: 03-273-35E	Drilling Co.: Glacier Drilling	Driller:	Drill Rig: Geoprobe	Weather: 60s
P. Manager: Chris Koelle	Geologist: Ethan Stewart	D. Helper:		

Depth (ft.)	Sample No.	Sample Depth (ft.)	Blows per 6"	"N"	Recovery (in.)	Sample Description	Field Analytical Readings	Groundwater and Other Observations
0-5	1	0-2.5			48	Dark brown top soil and silt.	0	
	2	2.5-4				Brown SILT, some gravel.	0	
5-10	3	5-7.5			48	Brown medium SAND and gravel.	0	
	4	7.5-9				SAA. 6' Brown medium to coarse sand, wet 9.5'.	0	GW @ 9.5'
10-15	5	10-12.5			50	Brown medium to fine SAND, wet.	0.1	
	6	12.5-14				SAA	0	
15-20	7	15-17.5			55	SAA	0	
	8	17.5-19.5				SAA	0	

Sample Types:
S=Split Spoon: _____ T= Shelby Tube: _____
R= Rock Core: _____ O = Other: _____
N = ASTM D1586

Comments:
SAA = same as above

DIVERSIFIED TECHNOLOGY CONSULTANTS	**Subsurface Log**	**Sheet**	***Date started:*** 10/30/08 ***Date Completed:*** 10/30/08	**BORING No. SB-20**
	Project: DOT Litchfield Task 210 ***Location:*** Litchfield, CT			***Method of investigation:*** Geoprobe

Project No.: 03-273-35E	***Drilling Co.:*** Glacier Drilling	***Driller:***	***Drill Rig:***	***Weather:***
P. Manager: Chris Koelle	***Geologist:*** Ethan Stewart	***D. Helper:***	Geoprobe	60s

Depth (ft.)	Sample No.	Sample Depth (ft.)	Blows per 6"	"N"	Recovery (in.)	Sample Description	Field Analytical Readings	Groundwater and Other Observations
0-5	1	0-2.5			48	1' Dark brown topsoil and silt. Brown SILT, with gravel, some medium sand.	1.1	
	2	2.5-4				SAA. 1' Light brown medium sand with loose gravel.	8.1	
5-10	3	5-7.5			50	1' Light brown SILT, medium sand, with gravel/crushed rock.	2.1	
	4	7.5-9				SAA. Bottom 8' brown medium to fine SAND, little fine gravel, wet.	0.1	GW @ 8.5'
10-15	5	10-12.5			40	Brown fine SAND, wet.	0.2	
	6	12.5-13.25				SAA	0.3	
15-20	7	15-17			24	Grey fine to medium SAND, wet, odor.	0.5	
20-25	8	20-22.5			38	Grey fine SAND, wet.	2.6	
	9	22.5-23				SAA	1.5	

Sample Types:

S=Split Spoon: _____ T= Shelby Tube: _____

R= Rock Core: _____ O = Other: _____

N = ASTM D1586

Comments:

SAA = same as above

DIVERSIFIED TECHNOLOGY CONSULTANTS	Subsurface Log	Sheet	Date started: 10/30/08 Date Completed: 10/30/08	BORING No. SB-21
	Project: DOT Litchfield Task 210 Location: Litchfield, CT			Method of investigation: Geoprobe

Project No.: 03-273-35E	Drilling Co.: Glacier Drilling	Driller:	Drill Rig: Geoprobe	Weather: 60s
P. Manager: Chris Koelle	Geologist: Ethan Stewart	D. Helper:		

Depth (ft.)	Sample No.	Sample Depth (ft.)	Blows per 6"	"N"	Recovery (in.)	Sample Description	Field Analytical Readings	Groundwater and Other Observations
0-5	1	0-2			25	3" Brown medium SAND. 3" Crushed rock. 6" Brown medium sand, with fine gravel. 6" crushed rock/concrete. 8" Brown dense SILT.	0.2	
5-10	2	5-7.5			55	1' Light brown SILT, medium sand, with gravel/crushed rock.	0.1	
	3	7.5-9.5				6" Brown dense SILT. Brown medium to coarse SAND and gravel.	0.1	
10-15	4	10-12.5			50	SAA	0.3	
	5	12.5-14				1' SAA. Brown medium to fine SAND, wet at 13.5'	0.1	GW @ 13.5'
15-20	6	15-17			25	Brown fine SAND, wet.	0.1	

Sample Types:
S=Split Spoon: _____ T= Shelby Tube: _____
R= Rock Core: _____ O = Other: _____
N = ASTM D1586

Comments:
SAA = same as above

DIVERSIFIED TECHNOLOGY CONSULTANTS	Subsurface Log	Sheet	Date started: 10/30/08 Date Completed: 10/30/08	BORING No. SB-22
	Project: DOT Litchfield Task 210 Location: Litchfield, CT			Method of investigation: Geoprobe

Project No.:	03-273-35E	Drilling Co.:	Glacier Drilling	Driller:	Drill Rig:	Weather:
P. Manager:	Chris Koelle	Geologist:	Ethan Stewart	D. Helper:	Geoprobe	60s

Depth (ft.)	Sample No.	Sample Depth (ft.)	Blows per 6"	"N"	Recovery (in.)	Sample Description	Field Analytical Readings	Groundwater and Other Observations
0-5	1	0-2.5			55	3" asphalt. Brown SILT and medium sand, with gravel.	0	
	2	2.5-4.5				1' SAA. 1.5' Brown dense silt and fine sand.	0	
5-10	3	5-7.5			55	Brown medium SAND and gravel.	0	
	4	7.5-9.5				SAA	0	
10-15	5	10-12.5			50	SAA	0	
	6	12.5-14				Brown medium SAND, little gravel, wet 13.5'.	0	GW @ 13.5'
15-20	7	15-17.5			50	SAA	0	
	8	17.5-19				SAA	0	

Sample Types:
S=Split Spoon: _____ T= Shelby Tube: _____
R= Rock Core: _____ O = Other: _____
N = ASTM D1586

Comments:
SAA = same as above

DIVERSIFIED TECHNOLOGY CONSULTANTS	Subsurface Log	Sheet	Date started: 10/30/08 Date Completed: 10/30/08	BORING No. SB-23
	Project: DOT Litchfield Task 210 Location: Litchfield, CT			Method of investigation: Geoprobe

Project No.: 03-273-35E	Drilling Co.: Glacier Drilling	Driller:	Drill Rig: Geoprobe	Weather: 60s
P. Manager: Chris Koelle	Geologist: Ethan Stewart	D. Helper:		

Depth (ft.)	Sample No.	Sample Depth (ft.)	Blows per 6"	"N"	Recovery (in.)	Sample Description	Field Analytical Readings	Groundwater and Other Observations
0-5	1	0-2.5			55	3" topsoil. Brown SILT with gravel, some asphalt. Gray color soil-bottom 3".	0.2	
	2	2.5-4.5						
5-10	3	5-7.5			50	Dense brown fine SAND, with silt.	0	
	4	7.5-9.5				Brown medium SAND and gravel.	0.1	
10-15	5	10-12.5			30	SAA, moist.	0.3	GW @ 13'
15-20	6	15-17.5			60	Brown fine SAND, wet.	0	
	7	17.5-20				SAA	0.1	

Sample Types:
S=Split Spoon: _____ T= Shelby Tube: _____
R= Rock Core: _____ O = Other: _____
N = ASTM D1586

Comments:
SAA = same as above

DIVERSIFIED TECHNOLOGY CONSULTANTS	Subsurface Log	Sheet	Date started: 10/30/08 Date Completed: 10/30/08	BORING No. SB-24
	Project: DOT Litchfield Task 210 Location: Litchfield, CT			Method of Investigation: Geoprobe

Project No.: 03-273-35E	Drilling Co.: Glacier Drilling	Driller:	Drill Rig: Geoprobe	Weather: 60s
P. Manager: Chris Koelle	Geologist: Ethan Stewart	D. Helper:		

Depth (ft.)	Sample No.	Sample Depth (ft.)	Blows per 6"	"N"	Recovery (in.)	Sample Description	Field Analytical Readings	Groundwater and Other Observations
0-5	1	0-2.5			36	5" Topsoil. Dark brown SILT and fine sand, little gravel.	0.1	
	2	2.5-3				Brown dense SILT and fine sand.	0.2	
5-10	3	5-7.5			50	Brown medium SAND and gravel.	0.1	
	4	7.5-9				SAA	0.1	
10-15	5	10-12.5			50	SAA	0.5	
	6	12.5-14				Brown/gray medium to fine SAND, wet 12.5'.	0.1	GW @ 12.5'
15-20	7	15-17.5			48	SAA, wet.	0	
	8	17.5-19				SAA	0	

Sample Types:
S=Split Spoon: _____ T= Shelby Tube: _____
R= Rock Core: _____ O = Other: _____
N = ASTM D1586

Comments:
SAA = same as above

DIVERSIFIED TECHNOLOGY CONSULTANTS	Subsurface Log	Sheet	Date started: 10/30/08 Date Completed: 10/30/08	BORING No. SB-25
	Project: DOT Litchfield Task 210 Location: Litchfield, CT			Method of investigation: Geoprobe

Project No.: 03-273-35E	Drilling Co.: Glacier Drilling	Driller:	Drill Rig: Geoprobe	Weather: 60s
P. Manager: Chris Koelle	Geologist: Ethan Stewart	D. Helper:		

Depth (ft.)	Sample No.	Sample Depth (ft.)	Blows per 6"	"N"	Recovery (in.)	Sample Description	Field Analytical Readings	Groundwater and Other Observations
0-5	1	0-2.5			55	6-7" asphalt. Brown SILT and medium sand, with crushed rock.	0.1	
	2	2.5-4.5				SAA	0.1	
5-10	3	5-7.5			50	Brown medium to fine SAND and gravel.	0.1	
	4	7.5-9				SAA	0.1	
10-15	5	10-12.5			48	Brown medium SAND, trace gravel, wet 12'.	0.4	GW @ 12'
	6	12.5-14				SAA	0.1	
15-20	7	15-17			24	SAA	0.2	

Sample Types:
S=Split Spoon: _____ T= Shelby Tube: _____
R= Rock Core: _____ O = Other: _____
N = ASTM D1586

Comments:
SAA = same as above

DIVERSIFIED TECHNOLOGY CONSULTANTS	Subsurface Log	Sheet	Date started: 10/30/08 Date Completed: 10/30/08	BORING No. SB-26
	Project: DOT Litchfield Task 210 Location: Litchfield, CT			Method of investigation: Geoprobe

Project No.: 03-273-35E	Drilling Co.: Glacier Drilling	Driller:	Drill Rig: Geoprobe	Weather: 60s
P. Manager: Chris Koelle	Geologist: Ethan Stewart	D. Helper:		

Depth (ft.)	Sample No.	Sample Depth (ft.)	Blows per 6"	"N"	Recovery (in.)	Sample Description	Field Analytical Readings	Groundwater and Other Observations
0-5	1	0-2.5			30	5" asphalt. Brown SILT and medium sand, with fine gravel.	0.1	
5-10	3	5-7.5			48	1' SAA. Brown medium SAND and gravel.	0.1	
	4	7.5-9				SAA	0.1	
10-15	5	10-12.5			55	1' Brown medium SAND, wet. 8" layer of black medium to fine SAND, odor. Brown/gray medium sand, with finel gravel, odor.	1,881	GW @ 10'
	6	12.5-14.5				SAA	667	
15-20	7	15-17.5			24	Brown medium SAND, with small gravel, odor.	204	

Sample Types:
S=Split Spoon: _____ T= Shelby Tube: _____
R= Rock Core: _____ O = Other: _____
N = ASTM D1586

Comments:
SAA = same as above

DIVERSIFIED TECHNOLOGY CONSULTANTS	Subsurface Log	Sheet	Date started: 6/13/08 Date Completed: 6/13/08	BORING No. MW-4
	Project: DOT Litchfield Task 210 Location: Litchfield, CT			Method of investigation: H.S.A.

Project No.: 03-273-35E	Drilling Co.: Associated Borings, Inc.	Driller: Jamie Llorett	Drill Rig: H.S.A.	Weather: 70s
P. Manager: Chris Koelle	Geologist: Ethan Stewart	D. Helper:		

Depth (ft.)	Sample No.	Sample Depth (ft.)	Blows per 6"	"N"	Recovery (in.)	Sample Description	Field Analytical Readings	Groundwater and Other Observations
0-5	1	1-3	15,21,19,25		6	0-1' Asphalt/process. Brown SILT, some f-sand, little gravel	2.6	
	2	3-5	15,14,18,10		6	4" Brown m-SAND, some silt, little gravel.	2.4	
5-9	3	5-7	11,8,10,10		6	Brown m-c SAND and rounded gravel, little silt.	4.8	
	4	7-9	8,6,10,12		10	Crushed rock/gravel, some m-c SAND	1.7	
9-13	5	9-11	5,8,7,9		5	Dark brown SILT. 3" Brown c-m sand, with small gravel, wet 10'.	0.8	GW @ 10'
	6	11-13	8,7,5,9		16	Dark brown m-c SAND, wet.	0.2	
13-18	7	13-15	5,5,2,4		18	SAA.	0.2	
						Well set @ 18'		

Sample Types:

S=Split Spoon: _____ T= Shelby Tube: _____

R= Rock Core: _____ O = Other: _____

N = ASTM D1586

Comments:

SAA = same as above

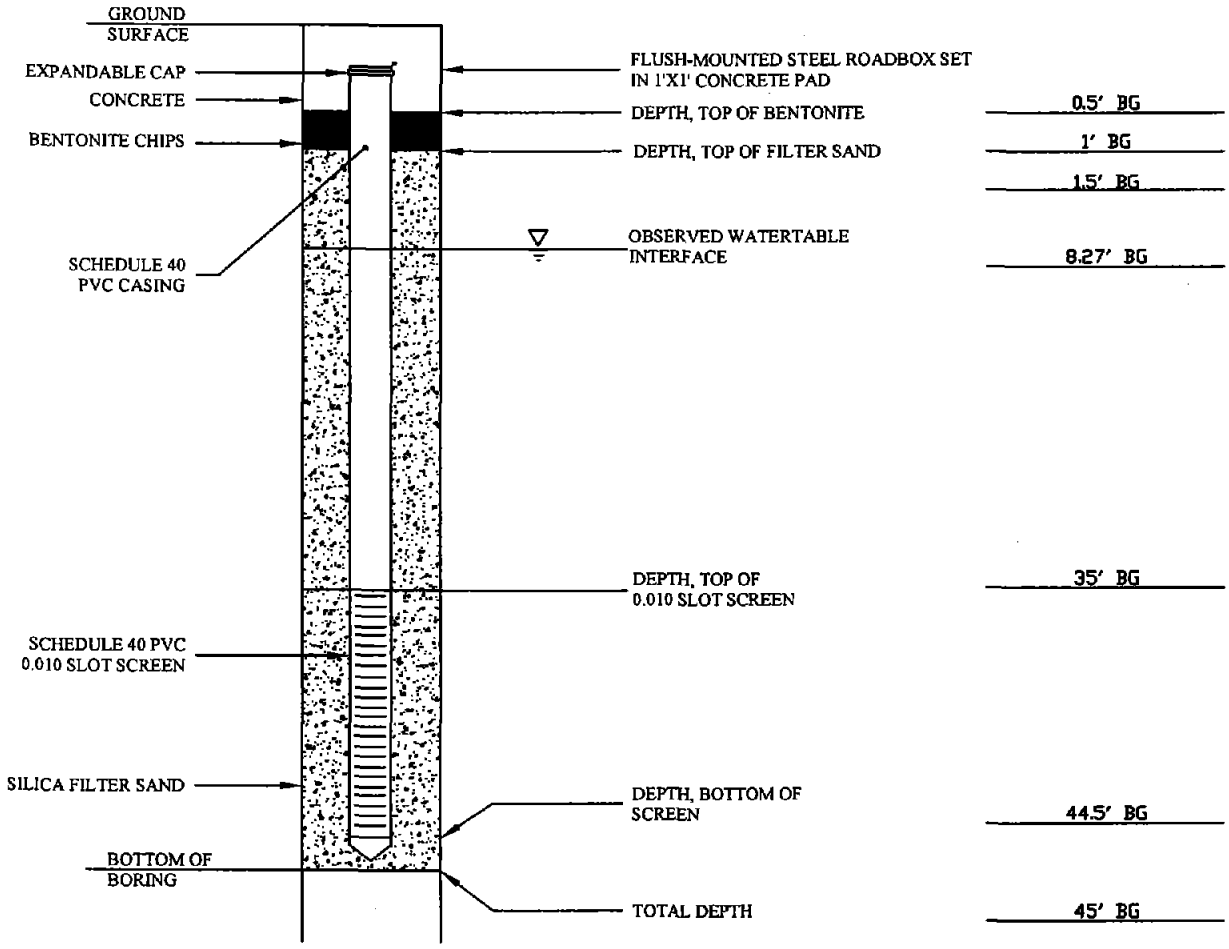
DIVERSIFIED TECHNOLOGY CONSULTANTS	Subsurface Log	Sheet	Date started: 6/13/08 Date Completed: 6/13/08	BORING No. MW-5
	Project: DOT Litchfield Task 210 Location: Litchfield, CT			Method of investigation: H.S.A.
Project No.: 03-273-35M P. Manager: Chris Koelle	Drilling Co.: Associated Borings, Inc. Geologist: Ethan Stewart		Driller: Jamie Llorett D. Helper:	Drill Rig: H.S.A. Weather: 70s

Depth (ft.)	Sample No.	Sample Depth (ft.)	Sample Blows per 6"	Sample "N"	Recovery (in.)	Sample Description	Field Analytical Readings	Groundwater and Other Observations
0-5	1	0-3	15,16,19,22		8	1' Asphalt/process. Brown SILT, some f-sand, little gravel	2.4	
	2	3-5	15,17,11,16		10	5" Brown m-SAND. 5" Brown/dense silt, some gravel, little f-sand.	1.5	
5-9	3	5-7	8,11,14,15		12	Crushed rock/gravel, some m-SAND	3.2	
	4	7-9	5,9,8,9		10	Brown m-SAND, with gravel, crushed rock.	1.8	
9-13	5	9-11	4,5,4,7		15	Brown m-f SAND, wet 10'.	0.8	GW @ 10'
	6	11-13	2,3,3,1		12	Brown m-f SAND, wet.	0.5	
13-15	7	13-15	2,1,1,1		12	SAA.	0.5	
						Well set @ 18'		

Sample Types:
S=Split Spoon: _____ T= Shelby Tube: _____
R= Rock Core: _____ O = Other: _____
N = ASTM D1586

Comments:

MONITORING WELL COMPLETION DIAGRAM	SHEET 1 OF 1	DATE COMPLETED: 6/12/08	WELL ID **MW-1**
	DRILLING COMPANY: ASSOCIATED BORINGS, INC.	DRILLER: JAMIE LLORETT HELPER:	DRILL RIG: HSA
	DTC GEOLOGIST: ETHAN STEWART	PROJECT MANAGER: CHRIS KOELLE	METHOD OF INVESTIGATION: HSA
BACKFILL WELL KEY: NATIVE BACKFILL, GROUT, BENTONITE, FILTER SAND			WEATHER: P. SUNNY/70s



CONSTRUCTION NOTES:

2" DIAMETER WELL, 10' SCREEN, FINISH WITH 8" FLUSH PROTECTOR

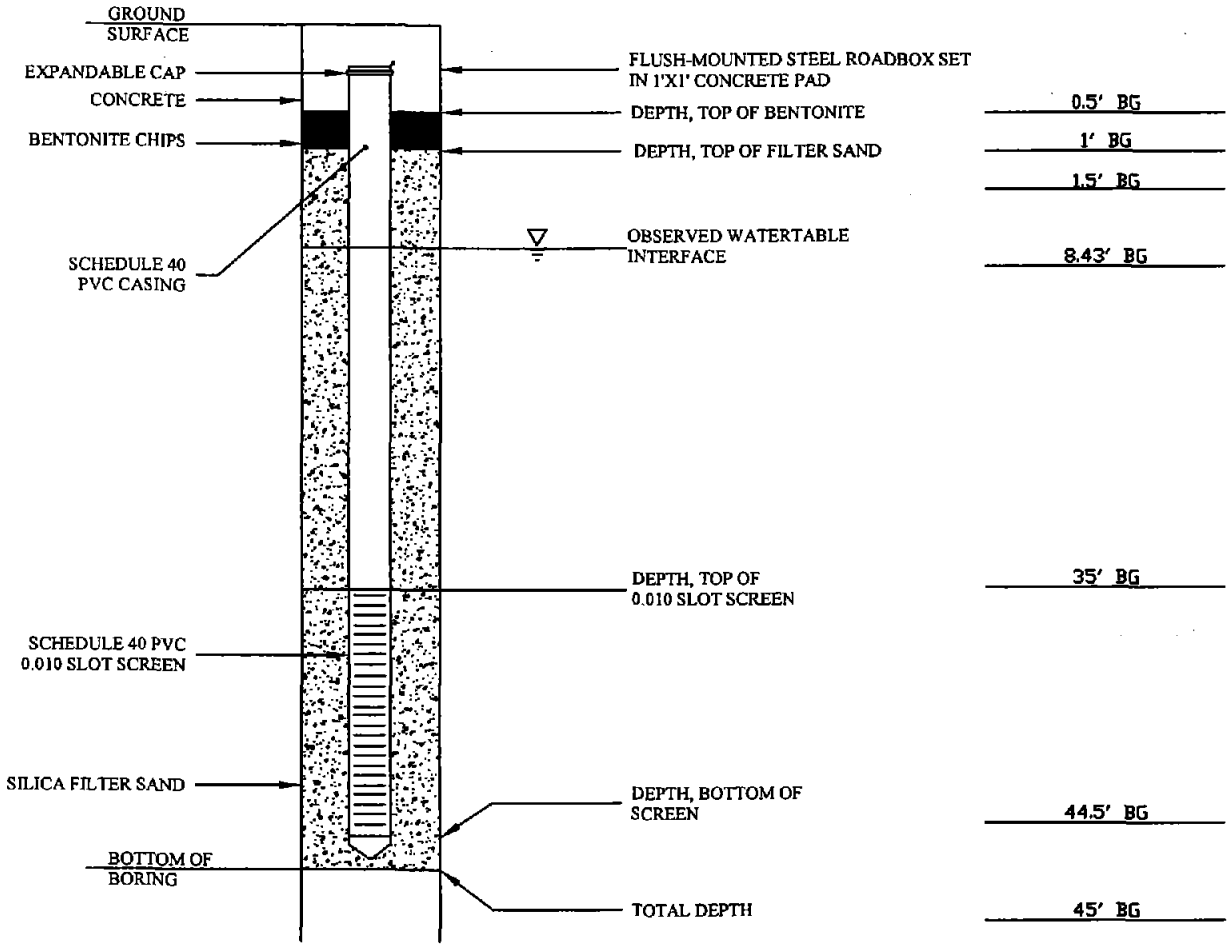
dtc
DIVERSIFIED TECHNOLOGY CONSULTANTS

DWG. FILE: MW-1.DWG
DRAWN BY: ES
SCALE: NTS

DTC No.: 03-273-35M
DATE: 12-12-08
SHEET: 1 OF 1

MONITORING WELL COMPLETION DIAGRAM

SHEET 1 OF 1	DATE COMPLETED: 6/12/08	WELL ID	**MW-2**
DRILLING COMPANY: ASSOCIATED BORINGS, INC.	DRILLER: JAMIE LLORETT HELPER:	DRILL RIG:	HSA
DTC GEOLOGIST: ETHAN STEWART	PROJECT MANAGER: CHRIS KOELLE	METHOD OF INVESTIGATION:	HSA
BACKFILL WELL KEY: NATIVE BACKFILL; GROUT; BENTONITE; FILTER SAND		WEATHER	P. SUNNY/70s



CONSTRUCTION NOTES:

2" DIAMETER WELL, 10' SCREEN, FINISH WITH 8" FLUSH PROTECTOR

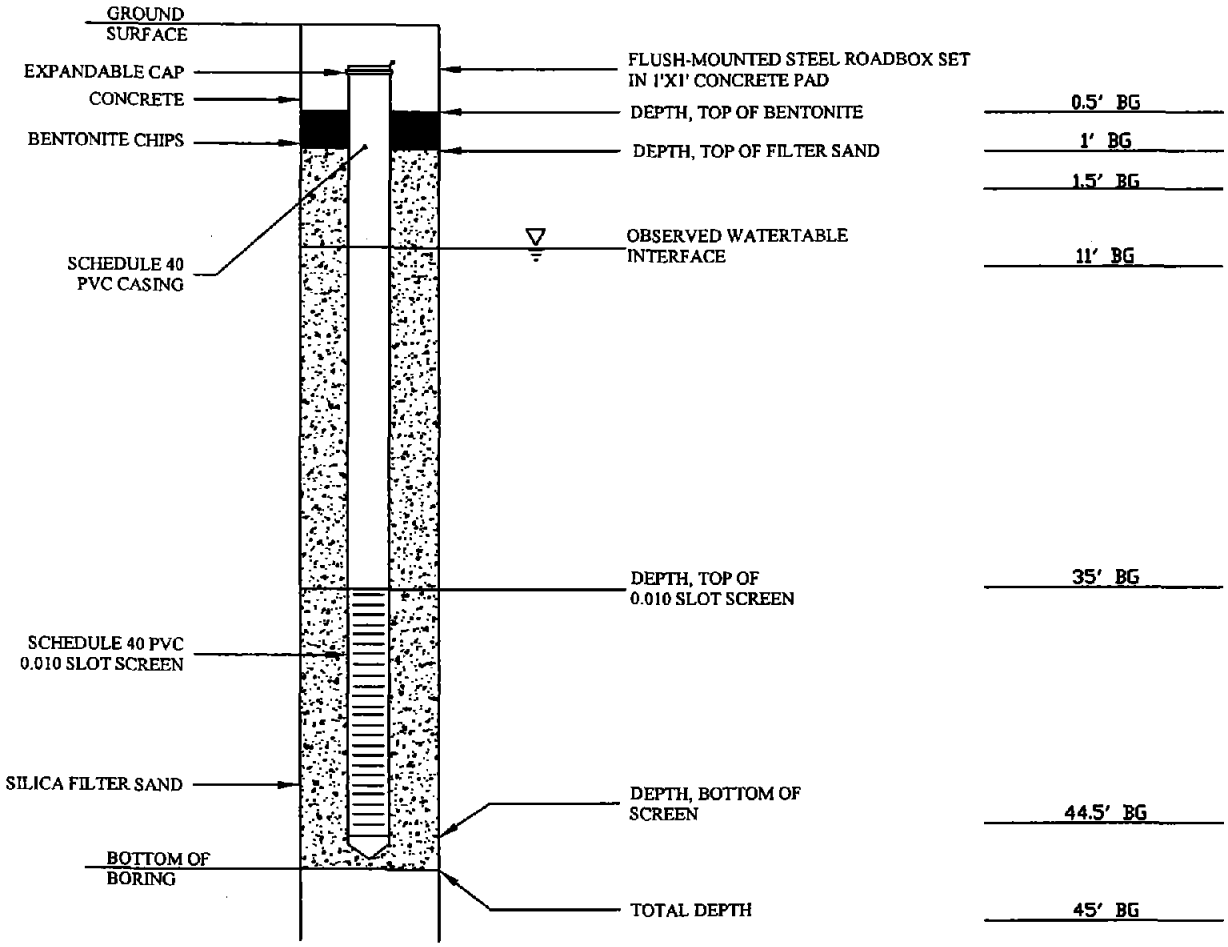
dtc
DIVERSIFIED TECHNOLOGY CONSULTANTS

DWG. FILE: MW-2.DWG
DRAWN BY: ES
SCALE: NTS

DTC No.: 03-273-35M
DATE: 12-12-08
SHEET: 1 OF 1

MONITORING WELL COMPLETION DIAGRAM

SHEET 1 OF 1	DATE COMPLETED: 6/13/08	WELL ID	**MW-3**
DRILLING COMPANY: ASSOCIATED BORINGS, INC.	DRILLER: JAMIE LLORETT HELPER:	DRILL RIG:	HSA
DTC GEOLOGIST: ETHAN STEWART	PROJECT MANAGER: CHRIS KOELLE	METHOD OF INVESTIGATION:	HSA
BACKFILL WELL KEY: NATIVE BACKFILL, GROUT, BENTONITE, FILTER SAND		WEATHER	P. SUNNY/70s



CONSTRUCTION NOTES:

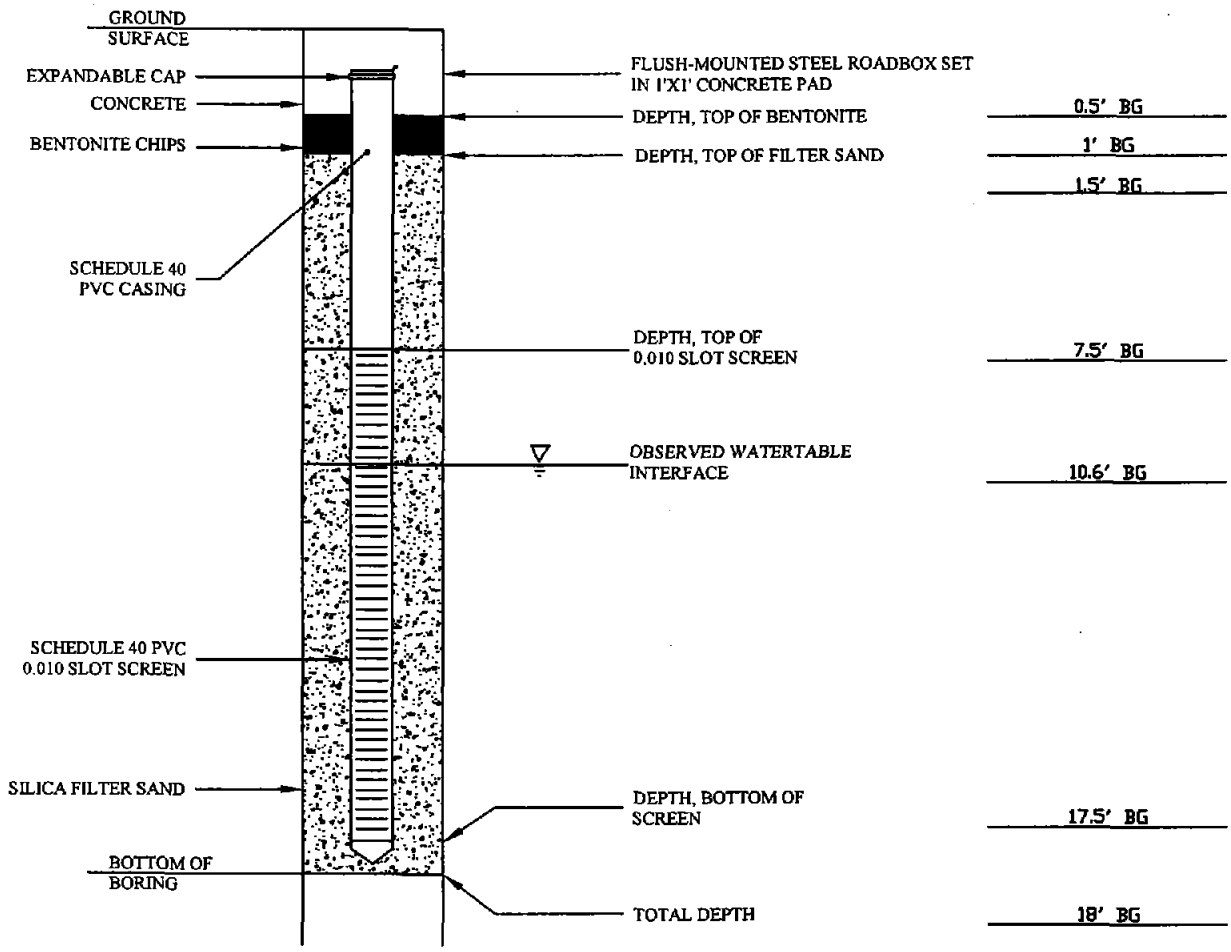
2" DIAMETER WELL, 10' SCREEN, FINISH WITH 8" FLUSH PROTECTOR

dtc
DIVERSIFIED TECHNOLOGY CONSULTANTS

DWG. FILE: MW-3.DWG
DRAWN BY: ES
SCALE: NTS

DTC No.: 03-273-35M
DATE: 12-12-08
SHEET: 1 OF 1

MONITORING WELL COMPLETION DIAGRAM	SHEET 1 OF 1	DATE COMPLETED: 6/13/08	WELL ID **MW-4**
	DRILLING COMPANY: ASSOCIATED BORINGS, INC.	DRILLER: JAMIE LLORETT HELPER:	DRILL RIG: HSA
	DTC GEOLOGIST: ETHAN STEWART	PROJECT MANAGER: CHRIS KOELLE	METHOD OF INVESTIGATION: HSA
BACKFILL WELL KEY: NATIVE BACKFILL, GROUT, BENTONITE, FILTER SAND			WEATHER: P. SUNNY/70s



CONSTRUCTION NOTES:

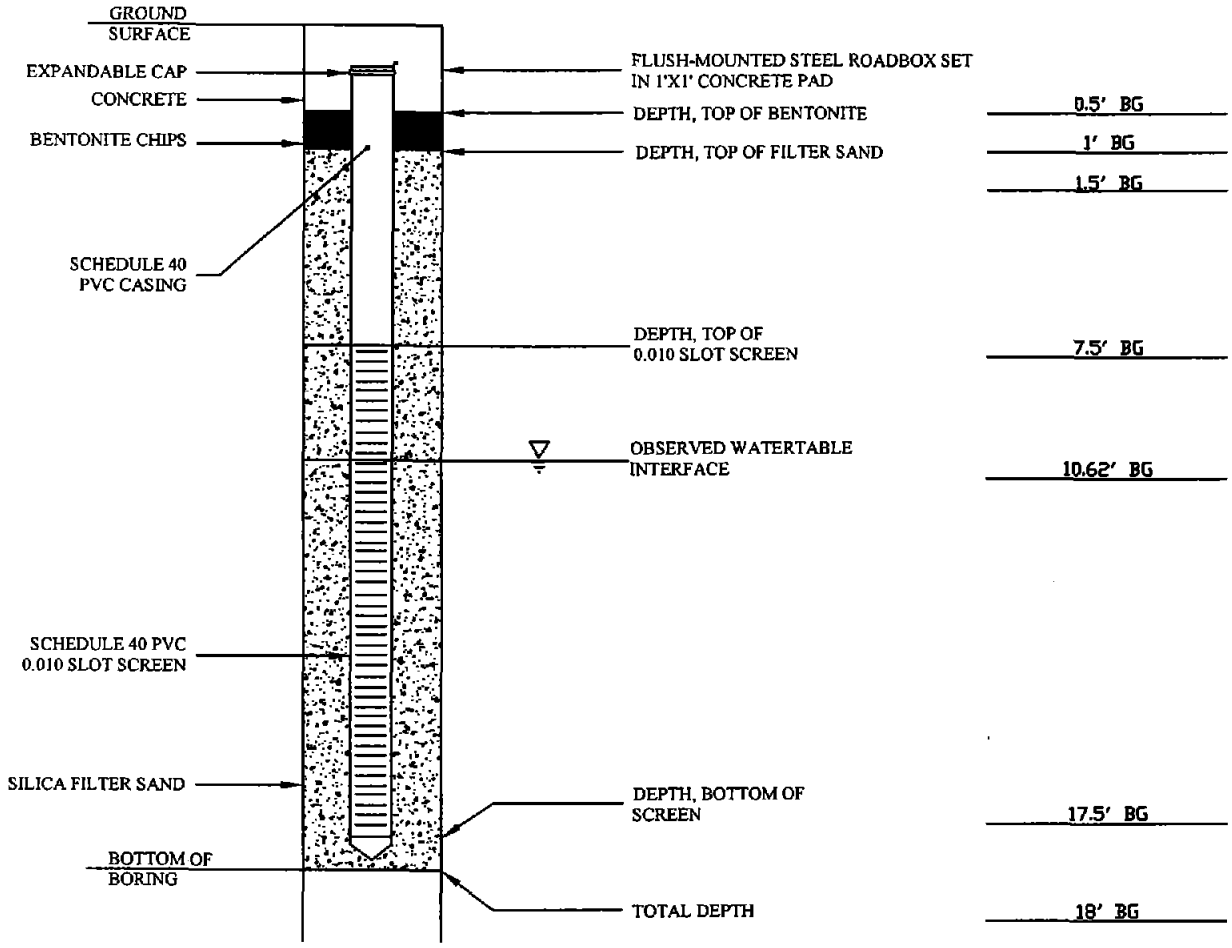
2" DIAMETER WELL, 10' SCREEN, FINISH WITH 8" FLUSH PROTECTOR

dtc
DIVERSIFIED TECHNOLOGY CONSULTANTS

DWG. FILE: MW-3.DWG
DRAWN BY: ES
SCALE: NTS

DTC No.: 03-273-35M
DATE: 12-12-08
SHEET: 1 OF 1

MONITORING WELL COMPLETION DIAGRAM	SHEET 1 OF 1	DATE COMPLETED: 6/13/08	WELL ID **MW-5**
	DRILLING COMPANY: ASSOCIATED BORINGS, INC.	DRILLER: JAMIE LLORETT HELPER:	DRILL RIG: HSA
	DTC GEOLOGIST: ETHAN STEWART	PROJECT MANAGER: CHRIS KOELLE	METHOD OF INVESTIGATION: HSA
BACKFILL WELL KEY: NATIVE BACKFILL, GROUT, BENTONITE, FILTER SAND			WEATHER: P. SUNNY/70s



CONSTRUCTION NOTES:

2" DIAMETER WELL, 10' SCREEN, FINISH WITH 8" FLUSH PROTECTOR

dtc
DIVERSIFIED TECHNOLOGY CONSULTANTS
[illegible] WASHINGTON AVENUE NORTH HAVEN CT [illegible]
[illegible] [illegible] FAX

DWG. FILE: MW-3.DWG
DRAWN BY: ES
SCALE: NTS

DTC No.: 03-273-35M
DATE: 12-12-08
SHEET: 1 OF 1

APPENDIX B

Groundwater Sampling Logs

GROUNDWATER SAMPLING LOG

ENGINEERED SOLUTIONS [redacted] LAND STRUCTURES WATER

WELL / SAMPLE NO.: MW-1
Sampling Sequence: fourth

DATE: 7/16/08
Weather Conditions: Sunny 80's

SITE NAME: ConnDOT Litchfield Maintenance Facility
ADDRESS: 439 Bantam Road
Litchfield, CT
PROJECT NO.: 03-273-35M
SAMPLING TEAM: D. Birdsey

Protective Casing: Intact / Damaged *Locked:* Yes / No
Well # Visible: Yes / No *Well Cap:* Okay / Damaged
Water Between Steel & PVC: Yes / No *Ponding Around Well:* Yes / No
Lock Condition: Okay / Damaged *PVC Riser Condition:* Okay / Damaged
Concrete Base: Intact / Damaged *Well Diameter:* 2" 4" 6" 8"
Well Material: PVC / Steel / Other _____

(Total Depth: 43.87 ft) – (Depth to Water: 8.45 ft) = (Height: _____ ft)
(Height: _____ ft) X (Well Dia Ftr: _____ gal/ft) = (Well Volume: _____ gal)
(Well Volume: _____ gal) X (1 2 3) = _____ gallons to be purged

Well Diameter Factors: (gallons/ft)			
	1.5" = 0.1	2" = 0.16	4" = 0.6
	5.75" = 1.35	6" = 1.47	8" = 2.6

Pre-purge Water Column Observations: Floating Product: Yes / No
Odor: Yes / No *Product Thickness:* _____

				Container:	Quantity	Preserv.	Parameters:
Sample Method:	CT Low-Flow						
Pump Type:	Peristaltic Pump	Sample Depth:		40 ml Vial	2/3	HCL	VOCs
Controller:		Field Filtered:	No				
Compressor:		Filter Method:	NA				
Controller Setting:		LNAPLs (ft):					
Flow Rate:		DNAPLs (ft):					
Draw Down (ft):		Total Purge Vol.					

Time	Volume	Temp.	pH	Specific Conductance	Turbidity	Dissolved Oxygen	ORP	
	-		-					
1029	Initial	13.64	6.98	2.355	17.6	4.59	-179.2	
1034	1st	13.50	6.15	2.353	14.1	3.91	-137.4	
1038	2nd	13.46	5.82	2.349	13.0	3.71	-138.6	
1043	3rd	13.43	5.68	2.348	8.15	3.56	-138.5	
1048	4th	13.45	5.57	2.348	8.01	3.41	-136.7	
1053	5th	13.38	5.51	2.348	6.55	3.30	-139.1	
1059	6th	13.43	5.49	2.361	6.11	3.34	-142.2	
1105	7th	13.47	5.41	2.369	5.60	3.43	-150.1	
11 11	8th	13.52	5.38	2.385	4.04	3.76	-166.8	
		3%	±0.1	3%	±10% or ≤5 NTU	10%	±10 mV	

ADDITIONAL COMMENTS:
Sample Time: 1124

GROUNDWATER SAMPLING LOG

ENGINEERED SOLUTIONS [redacted] LAND STRUCTURES WATER

WELL / SAMPLE NO.: MW-2
Sampling Sequence: fifth

DATE: 7/16/08
Weather Conditions: Sunny 90's

SITE NAME: ConnDOT Litchfield Maintenance Facility
ADDRESS: 439 Bantam Road
Litchfield, CT
PROJECT NO.: 03-273-35M
SAMPLING TEAM: D. Birdsey

WELL LOCATION

Protective Casing: Intact / Damaged ***Locked:*** Yes / No
Well # Visible: Yes / No ***Well Cap:*** Okay / Damaged
Water Between Steel & PVC: Yes / No ***Ponding Around Well:*** Yes / No
Lock Condition: Okay / Damaged ***PVC Riser Condition:*** Okay / Damaged
Concrete Base: Intact / Damaged ***Well Diameter:*** 2" 4" 6" 8"
Well Material: PVC / Steel / Other_____

(Total Depth: 42.76 ft) – (Depth to Water: 8.34 ft) = (Height:_____ft)
(Height:_____ft) X (Well Dia Ftr:_____gal/ft) = (Well Volume:_____gal)
(Well Volume:_____gal) X (1 2 3) =_____gallons to be purged

Well Diameter Factors: (gallons/ft)			
	1.5" = 0.1	2" = 0.16	4" = 0.6
	5.75" = 1.35	6" = 1.47	8" = 2.6

Pre-purge Water Column Observations: ***Floating Product:*** Yes / No
Odor: Yes / No ***Product Thickness:*** _____

Comments

BOTTLES AND ANALYTICAL PARAMETERS

Sample Method:	CT Low-Flow			*Container:*	*Quantity*	*Preserv.*	*Parameters:*
Pump Type:	Peristaltic Pump	Sample Depth:		40 ml Vial	3	HCL	VOCs
Controller:		Field Filtered:	No				
Compressor:		Filter Method:	NA				
Controller Setting:		LNAPLs (ft):					
Flow Rate:		DNAPLs (ft):					
Draw Down (ft):		Total Purge Vol.					

WELL STABILIZATION MONITORING

Time	*Volume*	*Temp.*	*pH*	*Specific Conductance*	*Turbidity*	*Dissolved Oxygen*	*ORP*	
	-		-					
1130	Initial	14.27	6.36	2.160	12.3	1.85	-190.1	
1135	1st	14.30	5.81	2.199	13.4	0.47	-148.8	
1140	2nd	14.58	5.78	2.225	8.49	0.38	-147.8	
1146	3rd	14.70	5.79	2.252	6.79	0.30	-148.7	
1149	4th	14.53	5.82	2.257	6.38	0.28	-148.7	
1154	5th	14.71	5.77	2.318	4.92	0.26	-147.7	
	6th							
	7th							
	8th							
		3%	±0.1	3%	±10% or ≤5 NTU	10%	±10 mV	

ADDITIONAL COMMENTS:
Sample Time: 1159

GROUNDWATER SAMPLING LOG

ENGINEERED SOLUTIONS

[redacted]

LAND STRUCTURES WATER

WELL / SAMPLE NO.: MW-3
Sampling Sequence: First

DATE: 7/18/08
Weather Conditions: Sunny 80's

SITE NAME: ConnDOT Litchfield Maintenance Facility
ADDRESS: 439 Bantam Road
Litchfield, CT
PROJECT NO.: 03-273-35M
SAMPLING TEAM: D. Birdsey

WELL LOCATION

Rio 552 MW 1 4.0
211 350

WELL CONDITIONS

Protective Casing: Intact / Damaged *Locked:* Yes / No
Well # Visible: Yes / No *Well Cap:* Okay / Damaged
Water Between Steel & PVC: Yes / No *Ponding Around Well:* Yes / No
Lock Condition: Okay / Damaged *PVC Riser Condition:* Okay / Damaged
Concrete Base: Intact / Damaged *Well Diameter:* 2" 4" 6" 8"
Well Material: PVC / Steel / Other _____

WELL VOLUME

(Total Depth: 45.53 ft) – (Depth to Water: 11.15 ft) = (Height: 34.63 ft)
(Height: _____ ft) X (Well Dia Ftr: _____ gal/ft) = (Well Volume: _____ gal)
(Well Volume: _____ gal) X (1 2 3) = _____ gallons to be purged

Well Diameter Factors: (gallons/ft)			
	1.5" = 0.1	2" = 0.16	4" = 0.6
	5.75" = 1.35	6" = 1.47	8" = 2.6

Pre-purge Water Column Observations: Floating Product: Yes / No
Odor: Yes / No *Product Thickness:* _____

COMMENTS

PURGE DATA

Sample Method:	CT Low-Flow		
Pump Type:	Peristaltic Pump	Sample Depth:	
Controller:		Field Filtered:	No
Compressor:		Filter Method:	NA
Controller Setting:		LNAPLs (ft):	
Flow Rate:		DNAPLs (ft):	
Draw Down (ft):		Total Purge Vol.	

BOTTLES / ANALYTICAL PARAMETERS

Container:	*Quantity*	*Preserv.*	*Parameters:*
40 ml Vial	3	HCL	VOCs

MONITORING PARAMETERS

Time	*Volume*	*Temp.*	*pH*	*Specific Conductance*	*Turbidity*	*Dissolved Oxygen*	*ORP*	
	-		-					
816	Initial	12.93	6.66	2.803 mS/cm	27.7	1.88 mg/L	95.8	
810	1st	12.86	5.79	2.789	22.1	0.67	-137.4	
815	2nd	12.72	5.41	2.748	15.2	0.56	-165.0	
821	3rd	12.77	5.21	2.716	10.55	0.48	-177.9	
827	4th	12.65	5.12	2.696	6.85	0.38	-193.6	
	5th	12.64	5.09	2.689	5.03	0.34	-201.2	
	6th							
	7th							
	8th							
		3%	±0.1	3%	±10% or ≤5 NTU	10%	±10 mV	

ADDITIONAL COMMENTS:

Sample Time:
834

GROUNDWATER SAMPLING LOG

ENGINEERED SOLUTIONS

[redacted]

LAND STRUCTURES WATER

WELL / SAMPLE NO.: MW-4
Sampling Sequence: Second

DATE: 7/16/08
Weather Conditions: Sunny 80's

SITE NAME: ConnDOT Litchfield Maintenance Facility
ADDRESS: 439 Bantam Road
Litchfield, CT
PROJECT NO.: 03-273-35M
SAMPLING TEAM: D. Birdsey

WELL LOCATION

Protective Casing: Intact / Damaged ***Locked:*** Yes / No
Well # Visible: Yes / No ***Well Cap:*** Okay / Damaged
Water Between Steel & PVC: Yes / No ***Ponding Around Well:*** Yes / No
Lock Condition: Okay / Damaged ***PVC Riser Condition:*** Okay / Damaged
Concrete Base: Intact / Damaged ***Well Diameter:*** 2" 4" 6" 8"
Well Material: PVC / Steel / Other_____

(Total Depth: 17.98 ft) – (Depth to Water: 10.75 ft) = (Height:_____ ft)
(Height:_____ ft) X (Well Dia Ftr:_____ gal/ft) = (Well Volume:_____ gal)
(Well Volume:_____ gal) X (1 2 3) =_____ gallons to be purged

Well Diameter Factors: (gallons/ft)			
	1.5" = 0.1	2" = 0.16	4" = 0.6
	5.75" = 1.35	6" = 1.47	8" = 2.6

Pre-purge Water Column Observations: ***Floating Product:*** Yes / No
Odor: Yes / No ***Product Thickness:*** _____

Comments:

				BOTTLES / ANALYTICAL PARAMETERS			
Sample Method:	CT Low-Flow			***Container:***	***Quantity***	***Preserv.***	***Parameters:***
Pump Type:	Peristaltic Pump	Sample Depth:		40 ml Vial	3	HCL	VOCs
Controller:		Field Filtered:	No				
Compressor:		Filter Method:	NA				
Controller Setting:		LNAPLs (ft):					
Flow Rate:		DNAPLs (ft):					
Draw Down (ft):		Total Purge Vol.					

GROUNDWATER MONITORING

Time	***Volume*** -	***Temp.***	***pH*** -	***Specific Conductance***	***Turbidity***	***Dissolved Oxygen***	***ORP***	
0849	Initial	16.58	5.25	1.948	54.6	1.52	-162.8	
0853	1st	16.03	5.05	1.681	31.7	1.98	-162.2	
0858	2nd	16.51	5.04	1.590	19.9	2.57	-147.3	
0904	3rd	16.59	5.11	1.553	12.8	2.59	-140.9	
0909	4th	16.72	5.49	1.553	9.11	2.59	-131.9	
0915	5th	16.73	5.20	1.557	7.17	2.55	-137.7	
0918	6th	16.48	5.33	1.530	5.86	2.83	-123.3	
	7th							
	8th							
		3%	±0.1	3%	±10% or ≤5 NTU	10%	±10 mV	

ADDITIONAL COMMENTS:
Sample Time: 0923

GROUNDWATER SAMPLING LOG

ENGINEERED SOLUTIONS

[redacted]

LAND
STRUCTURES
WATER

WELL / SAMPLE NO.: MW-5
Sampling Sequence: Third

DATE: 7/16/08
Weather Conditions: Sunny 80's

SITE NAME: ConnDOT Litchfield Maintenance Facility
ADDRESS: 439 Bantam Road
Litchfield, CT
PROJECT NO.: 03-273-35M
SAMPLING TEAM: D. Birdsey

Protective Casing: Intact / Damaged ***Locked:*** Yes / No

Well # Visible: Yes / No ***Well Cap:*** Okay / Damaged

Water Between Steel & PVC: Yes / No ***Ponding Around Well:*** Yes / No

Lock Condition: Okay / Damaged ***PVC Riser Condition:*** Okay / Damaged

Concrete Base: Intact / Damaged ***Well Diameter:*** 2" 4" 6" 8"

Well Material: PVC / Steel / Other _____

(Total Depth: 17.98 ft) – (Depth to Water: 10.77 ft) = (Height: _____ ft)

(Height: _____ ft) X (Well Dia Ftr: _____ gal/ft) = (Well Volume: _____ gal)

(Well Volume: _____ gal) X (1 2 3) = _____ gallons to be purged

Well Diameter Factors: (gallons/ft)			
	1.5" = 0.1	2" = 0.16	4" = 0.6
	5.75" = 1.35	6" = 1.47	8" = 2.6

Pre-purge Water Column Observations: ***Floating Product:*** Yes / No

Odor: Yes / No ***Product Thickness:*** _____

Comments:

				Container:	***Quantity***	***Preserv.***	***Parameters:***
Sample Method:	CT Low-Flow						
Pump Type:	Peristaltic Pump	Sample Depth:		40 ml Vial	6-3	HCL	VOCs
Controller:		Field Filtered:	No				
Compressor:		Filter Method:	NA				
Controller Setting:		LNAPLs (ft):					
Flow Rate:		DNAPLs (ft):					
Draw Down (ft):		Total Purge Vol.					

Time	***Volume***	***Temp.***	***pH***	***Specific Conductance***	***Turbidity***	***Dissolved Oxygen***	***ORP***	
	-		-					
0934	Initial	15.74	6.07	2.232	12.6	4.96	-151.1	
0939	1st	15.11	5.54	2.208	8.90	3.15	-128.8	
0944	2nd	15.35	5.25	2.210	7.00	3.20	-127.6	
0949	3rd	15.33	5.25	2.213	5.44	3.29	-128.4	
0954	4th	15.31	5.18	2.213	4.41	3.29	-134.5	
	5th							
	6th							
	7th							
	8th							
		3%	±0.1	3%	±10% or ≤5 NTU	10%	±10 mV	

ADDITIONAL COMMENTS:

Sample Time: 1000

Dup. Taken

APPENDIX C

Soil Analytical Laboratory Reports

Report Date:
07-Nov-08 16:11

☐ Final Report
☐ Re-Issued Report
☐ Revised Report

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

Laboratory Report

Diversified Technology Consultants
556 Washington Avenue
North Haven, CT 06473
Attn: Christopher Koelle

Project: Litchfield DOT - Litchfield, CT
Project 03-273-35E

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
SA86884-01	SB-18 10-12.5'	Soil	30-Oct-08 00:00	31-Oct-08 16:00
SA86884-02	SB-19 12.5-15'	Soil	30-Oct-08 00:00	31-Oct-08 16:00
SA86884-03	SB-19 15-17.5'	Soil	30-Oct-08 00:00	31-Oct-08 16:00
SA86884-04	SB-19 17.5-20'	Soil	30-Oct-08 00:00	31-Oct-08 16:00
SA86884-05	SB-20 15-17.5'	Soil	30-Oct-08 00:00	31-Oct-08 16:00
SA86884-06	SB-20 12.5-15	Soil	30-Oct-08 00:00	31-Oct-08 16:00
SA86884-07	SB-20 20-22.5	Soil	30-Oct-08 00:00	31-Oct-08 16:00
SA86884-08	SB-21 12.5-15	Soil	30-Oct-08 00:00	31-Oct-08 16:00
SA86884-09	SB-22 12.5-15	Soil	30-Oct-08 00:00	31-Oct-08 16:00
SA86884-10	SB-23 10-12.5	Soil	30-Oct-08 00:00	31-Oct-08 16:00
SA86884-11	SB-24 12.5-15'	Soil	30-Oct-08 00:00	31-Oct-08 16:00
SA86884-12	SB-25 10-12.5'	Soil	30-Oct-08 00:00	31-Oct-08 16:00
SA86884-13	SB-26 7.5-10'	Soil	30-Oct-08 00:00	31-Oct-08 16:00
SA86884-14	SB-26 10-12.5'	Soil	30-Oct-08 00:00	31-Oct-08 16:00
SA86884-15	SB-26 15-17.5'	Soil	30-Oct-08 00:00	31-Oct-08 16:00
SA86884-16	Duplicate	Soil	30-Oct-08 00:00	31-Oct-08 16:00

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received.
All applicable NELAC requirements have been met.
Spectrum Analytical holds certification in the State of New York for the analytes as indicated with an X in the "Cert." column within this report. Please note that the State of New York does not offer certification for all analytes.
Please note that this report contains 35 pages of analytical data plus Chain of Custody document(s).
This report may not be reproduced, except in full, without written approval from Spectrum Analytical, Inc.

Massachusetts # M-MA138/MA1110
Connecticut # PH-0777
Florida # E87600/E87936
Maine # MA138
New Hampshire # 2538
New Jersey # MA011/MA012
New York # 11393/11840
Pennsylvania # 68-04426/68-02924
Rhode Island # 98
USDA # S-51435
Vermont # VT-11393

Authorized by:

Hanibal C. Tayeh, Ph.D.
President/Laboratory Director

Technical Reviewer's Initial:

Spectrum Analytical, Inc. is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Spectrum is currently accredited for the specific method or analyte indicated. Please refer to our "Quality" web page at www.spectrum-analytical.com for a full listing of our current certifications and fields of accreditation. States in which Spectrum Analytical, Inc. holds NELAC certification are New York, New Hampshire, New Jersey and Florida. All analytical work for Volatile Organic and Air analysis are transferred to and conducted at our 830 Silver Street location (NY-11840, FL-E87936 and NJ-MA012).

CASE NARRATIVE:

The samples were received 7.4 degrees Celsius, please refer to the Chain of Custody for details specific to temperature upon receipt. An infrared thermometer with a tolerance of +/- 2.0 degrees Celsius was used immediately upon receipt of the samples. Temperatures exceeding the +/- 2.0 degrees Celsius may affect sample results as stated in each specific method; samples collected for air analysis should be collected and submitted at ambient temperature.

CTDEP has published a list of analytical methods which provides a series of recommended protocols for the acquisition, analysis and reporting of analytical data in support of decisions being made utilizing the Reasonable Confidence Protocol (RCP). "Reasonable Confidence" can be established only for those methods published by the CTDEP in the RCP guidelines. The compounds and/or elements reported were specifically requested by the client on the Chain of Custody and in some cases may not include the full analyte list as defined in the method.

The CTDEP RCP requests that "all non-detects and all results below the reporting limit are reported as ND (Not Detected at the Specified Reporting Limit)". All non-detects and all results below the reporting limit are reported as "BRL" (Below the Reporting Limit) in this report.

If no reporting limits were specified or referenced on the chain-of-custody the laboratory's practical quantitation limits were applied.

Required site-specific Matrix Spike/Matrix Spike Duplicate (MS/MSD) must be requested by the client and sufficient sample must be submitted for the additional analyses. Samples submitted with insufficient volume/weight will not be analyzed for site specific MS/MSD, however a batch MS/MSD may be analyzed from a non-site specific sample.

According to CTDEP RCP Quality Assurance and Quality Control Requirements for VOCs by method 8260, SW-846 version 1, 7/28/05 Table 1A, recovery for some VOC analytes have been deemed potentially difficult. Although they may still be within the recommended 70%-130% recovery range, a range has been set based on historical control limits.

See below for any non-conformances and issues relating to quality control samples and/or sample analysis/matrix.

SW846 8260B

SW846 8260B

Samples:

SA86884-01 *SB-18 10-12.5'*

The VOC preserved soil sample is not within the 1:1 weight to volume ratio as recommended by SW846 methods 5030 and 5035 but may be within the 1:1 volume to volume ratio. This variance may affect the final reporting limit.

SA86884-02 *SB-19 12.5-15'*

The VOC preserved soil sample is not within the 1:1 weight to volume ratio as recommended by SW846 methods 5030 and 5035 but may be within the 1:1 volume to volume ratio. This variance may affect the final reporting limit.

SA86884-03 *SB-19 15-17.5'*

The VOC preserved soil sample is not within the 1:1 weight to volume ratio as recommended by SW846 methods 5030 and 5035 but may be within the 1:1 volume to volume ratio. This variance may affect the final reporting limit.

SA86884-04 *SB-19 17.5-20'*

Reporting limits reflect SW846 5030 extraction technique due to interference using SW846 5035A extraction technique.

SA86884-05RE1 *SB-20 15-17.5'*

The VOC preserved soil sample is not within the 1:1 weight to volume ratio as recommended by SW846 methods 5030 and 5035 but may be within the 1:1 volume to volume ratio. This variance may affect the final reporting limit.

SA86884-06 *SB-20 12.5-15*

The VOC preserved soil sample is not within the 1:1 weight to volume ratio as recommended by SW846 methods 5030 and 5035 but may be within the 1:1 volume to volume ratio. This variance may affect the final reporting limit.

SA86884-08 *SB-21 12.5-15*

The VOC preserved soil sample is not within the 1:1 weight to volume ratio as recommended by SW846 methods 5030 and 5035 but may be within the 1:1 volume to volume ratio. This variance may affect the final reporting limit.

SA86884-09 *SB-22 12.5-15*

The VOC preserved soil sample is not within the 1:1 weight to volume ratio as recommended by SW846 methods 5030 and 5035 but may be within the 1:1 volume to volume ratio. This variance may affect the final reporting limit.

SA86884-10 *SB-23 10-12.5*

The VOC preserved soil sample is not within the 1:1 weight to volume ratio as recommended by SW846 methods 5030 and 5035 but may be within the 1:1 volume to volume ratio. This variance may affect the final reporting limit.

SA86884-11 *SB-24 12.5-15'*

The VOC preserved soil sample is not within the 1:1 weight to volume ratio as recommended by SW846 methods 5030 and 5035 but may be within the 1:1 volume to volume ratio. This variance may affect the final reporting limit.

SA86884-12 *SB-25 10-12.5'*

The VOC preserved soil sample is not within the 1:1 weight to volume ratio as recommended by SW846 methods 5030 and 5035 but may be within the 1:1 volume to volume ratio. This variance may affect the final reporting limit.

SA86884-13 *SB-26 7.5-10'*

The VOC preserved soil sample is not within the 1:1 weight to volume ratio as recommended by SW846 methods 5030 and 5035 but may be within the 1:1 volume to volume ratio. This variance may affect the final reporting limit.

SW846 8260B

Samples:

SA86884-14 *SB-26 10-12.5'*

Analyte concentration confirmed by duplicate analysis.

SA86884-15 *SB-26 15-17.5'*

The VOC preserved soil sample is not within the 1:1 weight to volume ratio as recommended by SW846 methods 5030 and 5035 but may be within the 1:1 volume to volume ratio. This variance may affect the final reporting limit.

SA86884-15RE1 *SB-26 15-17.5'*

The VOC preserved soil sample is not within the 1:1 weight to volume ratio as recommended by SW846 methods 5030 and 5035 but may be within the 1:1 volume to volume ratio. This variance may affect the final reporting limit.

SA86884-16 *Duplicate*

Analyte concentration confirmed by duplicate analysis.

The VOC preserved soil sample is not within the 1:1 weight to volume ratio as recommended by SW846 methods 5030 and 5035 but may be within the 1:1 volume to volume ratio. This variance may affect the final reporting limit.

VOC Soil Extraction

VOC Soil Extraction

Samples:

SA86884-01 *SB-18 10-12.5'*

Field extracted

VOC Extraction

SA86884-02 *SB-19 12.5-15'*

Field extracted

VOC Extraction

SA86884-03 *SB-19 15-17.5'*

Field extracted

VOC Extraction

SA86884-04 *SB-19 17.5-20'*

Field extracted

VOC Extraction

SA86884-05 *SB-20 15-17.5'*

Field extracted

VOC Extraction

SA86884-06 *SB-20 12.5-15*

Field extracted

VOC Extraction

SA86884-07 *SB-20 20-22.5*

Field extracted

VOC Extraction

SA86884-08 *SB-21 12.5-15*

Field extracted

VOC Extraction

SA86884-09 *SB-22 12.5-15*

Field extracted

VOC Extraction

SA86884-10 *SB-23 10-12.5*

Field extracted

VOC Extraction

SA86884-11 *SB-24 12.5-15'*

Field extracted

VOC Extraction

VOC Soil Extraction

Samples:

SA86884-12 *SB-25 10-12.5'*

Field extracted

VOC Extraction

SA86884-13 *SB-26 7.5-10'*

Field extracted

VOC Extraction

SA86884-14 *SB-26 10-12.5'*

Field extracted

VOC Extraction

SA86884-15 *SB-26 15-17.5'*

Field extracted

VOC Extraction

SA86884-16 *Duplicate*

Field extracted

VOC Extraction

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-18 10-12.5'	03-273-35E	Soil	30-Oct-08 00:00	31-Oct-08
SA86884-01				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
Volatile Organic Compounds											
	VOC Extraction	Field extracted		N/A		1	VOC Soil Extraction	04-Nov-08	04-Nov-08	B110243	
Volatile Organic Compounds by SW846 8260B			VC10		Initial weight: 9.8 g						
Prepared by method SW846 5035A Soil (low level)											
71-43-2	Benzene	BRL		µg/kg dry	4.3	1	SW846 8260B	05-Nov-08	05-Nov-08	B110288	X
104-51-8	n-Butylbenzene	BRL		µg/kg dry	4.3	1	"	"	"	"	X
135-98-8	sec-Butylbenzene	BRL		µg/kg dry	4.3	1	"	"	"	"	X
98-06-6	tert-Butylbenzene	BRL		µg/kg dry	4.3	1	"	"	"	"	X
100-41-4	Ethylbenzene	BRL		µg/kg dry	4.3	1	"	"	"	"	X
98-82-8	Isopropylbenzene	BRL		µg/kg dry	4.3	1	"	"	"	"	X
99-87-6	4-Isopropyltoluene	BRL		µg/kg dry	4.3	1	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	BRL		µg/kg dry	4.3	1	"	"	"	"	X
91-20-3	Naphthalene	BRL		µg/kg dry	4.3	1	"	"	"	"	X
103-65-1	n-Propylbenzene	BRL		µg/kg dry	4.3	1	"	"	"	"	X
108-88-3	Toluene	BRL		µg/kg dry	4.3	1	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	BRL		µg/kg dry	4.3	1	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	BRL		µg/kg dry	8.5	1	"	"	"	"	X
179601-23-1	m,p-Xylene	BRL		µg/kg dry	4.3	1	"	"	"	"	X
95-47-6	o-Xylene	BRL		µg/kg dry	4.3	1	"	"	"	"	X
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*98*		*70-130 %*			"	"	"	"	
2037-26-5	*Toluene-d8*	*101*		*70-130 %*			"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*106*		*70-130 %*			"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*104*		*70-130 %*			"	"	"	"	
General Chemistry Parameters											
	% Solids	81.6		%		1	SM2540 G Mod.	05-Nov-08	05-Nov-08	B110343	

* Reportable Detection Limit BRL = Below Reporting Limit

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-19 12.5-15'	03-273-35E	Soil	30-Oct-08 00:00	31-Oct-08
SA86884-02				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
Volatile Organic Compounds											
	VOC Extraction	Field extracted		N/A		1	VOC Soil Extraction	04-Nov-08	04-Nov-08	B110243	
Volatile Organic Compounds by SW846 8260B			VC10		Initial weight: 7.95 g						
Prepared by method SW846 5035A Soil (low level)											
71-43-2	Benzene	BRL		µg/kg dry	4.6	1	SW846 8260B	05-Nov-08	05-Nov-08	B110288	X
104-51-8	n-Butylbenzene	BRL		µg/kg dry	4.6	1	"	"	"	"	X
135-98-8	sec-Butylbenzene	BRL		µg/kg dry	4.6	1	"	"	"	"	X
98-06-6	tert-Butylbenzene	BRL		µg/kg dry	4.6	1	"	"	"	"	X
100-41-4	Ethylbenzene	BRL		µg/kg dry	4.6	1	"	"	"	"	X
98-82-8	Isopropylbenzene	BRL		µg/kg dry	4.6	1	"	"	"	"	X
99-87-6	4-Isopropyltoluene	BRL		µg/kg dry	4.6	1	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	BRL		µg/kg dry	4.6	1	"	"	"	"	X
91-20-3	Naphthalene	BRL		µg/kg dry	4.6	1	"	"	"	"	X
103-65-1	n-Propylbenzene	BRL		µg/kg dry	4.6	1	"	"	"	"	X
108-88-3	Toluene	BRL		µg/kg dry	4.6	1	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	BRL		µg/kg dry	4.6	1	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	BRL		µg/kg dry	4.6	1	"	"	"	"	X
179601-23-1	m,p-Xylene	BRL		µg/kg dry	9.3	1	"	"	"	"	X
95-47-6	o-Xylene	BRL		µg/kg dry	4.6	1	"	"	"	"	X
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*98*		*70-130 %*			"	"	"	"	
2037-26-5	*Toluene-d8*	*100*		*70-130 %*			"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*105*		*70-130 %*			"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*103*		*70-130 %*			"	"	"	"	
General Chemistry Parameters											
	% Solids	84.6		%		1	SM2540 G Mod.	05-Nov-08	05-Nov-08	B110343	

* Reportable Detection Limit BRL = Below Reporting Limit

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-19 15-17.5' SA86884-03	03-273-35E	Soil	30-Oct-08 00:00	31-Oct-08

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
Volatile Organic Compounds											
	VOC Extraction	Field extracted		N/A		1	VOC Soil Extraction	04-Nov-08	04-Nov-08	8110243	
Volatile Organic Compounds by SW846 8260B			VC10								
Prepared by method SW846 5035A Soil (low level)					Initial weight: 8.91 g						
71-43-2	Benzene	4.3		µg/kg dry	4.3	1	SW846 8260B	06-Nov-08	06-Nov-08	8110410	X
104-51-8	n-Butylbenzene	BRL		µg/kg dry	4.3	1	"	"	"	"	X
135-98-8	sec-Butylbenzene	BRL		µg/kg dry	4.3	1	"	"	"	"	X
98-06-6	tert-Butylbenzene	BRL		µg/kg dry	4.3	1	"	"	"	"	X
100-41-4	Ethylbenzene	BRL		µg/kg dry	4.3	1	"	"	"	"	X
98-82-8	Isopropylbenzene	BRL		µg/kg dry	4.3	1	"	"	"	"	X
99-87-6	4-Isopropyltoluene	BRL		µg/kg dry	4.3	1	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	BRL		µg/kg dry	4.3	1	"	"	"	"	X
91-20-3	Naphthalene	6.4		µg/kg dry	4.3	1	"	"	"	"	X
103-65-1	n-Propylbenzene	BRL		µg/kg dry	4.3	1	"	"	"	"	X
108-88-3	Toluene	BRL		µg/kg dry	4.3	1	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	BRL		µg/kg dry	4.3	1	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	BRL		µg/kg dry	4.3	1	"	"	"	"	X
179601-23-1	m,p-Xylene	BRL		µg/kg dry	8.7	1	"	"	"	"	X
95-47-6	o-Xylene	BRL		µg/kg dry	4.3	1	"	"	"	"	X
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*93*		*70-130 %*			"	"	"	"	
2037-26-5	*Toluene-d8*	*95*		*70-130 %*			"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*121*		*70-130 %*			"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*107*		*70-130 %*			"	"	"	"	
General Chemistry Parameters											
	% Solids	83.6		%		1	SM2540 G Mod.	05-Nov-08	05-Nov-08	8110343	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-19 17.5-20' SA86884-04	03-273-35E	Soil	30-Oct-08 00:00	31-Oct-08

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
Volatile Organic Compounds											
	VOC Extraction	Field extracted		N/A		1	VOC Soil Extraction	04-Nov-08	04-Nov-08	8110243	
Volatile Organic Compounds by SW846 8260B			VOC8								
Prepared by method SW846 5030 Soil (high level)					Initial weight: 15.19 g						
71-43-2	Benzene	BRL		µg/kg dry	71.0	50	SW846 8260B	07-Nov-08	07-Nov-08	8110440	X
104-51-8	n-Butylbenzene	BRL		µg/kg dry	71.0	50	"	"	"	"	X
135-98-8	sec-Butylbenzene	BRL		µg/kg dry	71.0	50	"	"	"	"	X
98-06-6	tert-Butylbenzene	BRL		µg/kg dry	71.0	50	"	"	"	"	X
100-41-4	Ethylbenzene	BRL		µg/kg dry	71.0	50	"	"	"	"	X
98-82-8	Isopropylbenzene	BRL		µg/kg dry	71.0	50	"	"	"	"	X
99-87-6	4-Isopropyltoluene	BRL		µg/kg dry	71.0	50	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	BRL		µg/kg dry	71.0	50	"	"	"	"	X
91-20-3	Naphthalene	BRL		µg/kg dry	71.0	50	"	"	"	"	X
103-65-1	n-Propylbenzene	BRL		µg/kg dry	71.0	50	"	"	"	"	X
108-88-3	Toluene	BRL		µg/kg dry	71.0	50	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	BRL		µg/kg dry	71.0	50	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	BRL		µg/kg dry	71.0	50	"	"	"	"	X
179601-23-1	m,p-Xylene	BRL		µg/kg dry	142	50	"	"	"	"	X
95-47-6	o-Xylene	BRL		µg/kg dry	71.0	50	"	"	"	"	X
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*110*		*70-130 %*			"	"	"	"	
2037-26-5	*Toluene-d8*	*103*		*70-130 %*			"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*106*		*70-130 %*			"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*98*		*70-130 %*			"	"	"	"	
Extractable Petroleum Hydrocarbons											
Extractable Total Petroleum Hydrocarbons											
Prepared by method SW846 3550B											
8006-61-9	Gasoline	BRL		mg/kg dry	32.3	1	+CT ETPH	04-Nov-08	05-Nov-08	8110233	
68476-30-2	Fuel Oil #2	BRL		mg/kg dry	32.3	1	"	"	"	"	
68476-31-3	Fuel Oil #4	BRL		mg/kg dry	32.3	1	"	"	"	"	
68553-00-4	Fuel Oil #6	BRL		mg/kg dry	32.3	1	"	"	"	"	
M09800000	Motor Oil	BRL		mg/kg dry	32.3	1	"	"	"	"	
J00100000	Aviation Fuel	BRL		mg/kg dry	32.3	1	"	"	"	"	
	Unidentified	BRL		mg/kg dry	32.3	1	"	"	"	"	
	Other Oil	BRL		mg/kg dry	32.3	1	"	"	"	"	
	Total Petroleum Hydrocarbons	BRL		mg/kg dry	32.3	1	"	"	"	"	
	C9-C36 Aliphatic Hydrocarbons	BRL		mg/kg dry	32.3	1	"	"	"	"	
Surrogate recoveries:											
3386-33-2	*1-Chlorooctadecane*	*82*		*50-150 %*			"	"	"	"	
General Chemistry Parameters											
	% Solids	82.2		%		1	SM2540 G Mod.	05-Nov-08	05-Nov-08	8110343	

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* Reportable Detection Limit BRL = Below Reporting Limit

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-20 12.5-15 SA86884-06	03-273-35E	Soil	30-Oct-08 00:00	31-Oct-08

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Cert.*
Volatile Organic Compounds											
	VOC Extraction	Field extracted		N/A		1	VOC Soil Extraction	04-Nov-08	04-Nov-08	8110243	
Volatile Organic Compounds by SW846 8260B			VC10								
Prepared by method SW846 5035A Soil (low level)					Initial weight: 7.31 g						
71-43-2	Benzene	BRL		µg/kg dry	5.2	1	SW846 8260B	05-Nov-08	05-Nov-08	8110288	X
104-51-8	n-Butylbenzene	BRL		µg/kg dry	5.2	1	"	"	"	"	X
135-98-8	sec-Butylbenzene	BRL		µg/kg dry	5.2	1	"	"	"	"	X
98-06-6	tert-Butylbenzene	BRL		µg/kg dry	5.2	1	"	"	"	"	X
100-41-4	Ethylbenzene	BRL		µg/kg dry	5.2	1	"	"	"	"	X
98-82-8	Isopropylbenzene	BRL		µg/kg dry	5.2	1	"	"	"	"	X
99-87-6	4-Isopropyltoluene	BRL		µg/kg dry	5.2	1	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	BRL		µg/kg dry	5.2	1	"	"	"	"	X
91-20-3	Naphthalene	BRL		µg/kg dry	5.2	1	"	"	"	"	X
103-65-1	n-Propylbenzene	BRL		µg/kg dry	5.2	1	"	"	"	"	X
108-88-3	Toluene	BRL		µg/kg dry	5.2	1	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	BRL		µg/kg dry	5.2	1	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	BRL		µg/kg dry	5.2	1	"	"	"	"	X
179601-23-1	m,p-Xylene	BRL		µg/kg dry	10.4	1	"	"	"	"	X
95-47-6	o-Xylene	BRL		µg/kg dry	5.2	1	"	"	"	"	X
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*98*		*70-130 %*			"	"	"	"	
2037-26-5	*Toluene-d8*	*102*		*70-130 %*			"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*111*		*70-130 %*			"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*106*		*70-130 %*			"	"	"	"	
General Chemistry Parameters											
	% Solids	82.6		%		1	SM2540 G Mod.	05-Nov-08	05-Nov-08	8110343	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-20 15-17.5' SA86884-05	03-273-35E	Soil	30-Oct-08 00:00	31-Oct-08

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
Volatile Organic Compounds											
	VOC Extraction	Field extracted		N/A		1	VOC Soil Extraction	04-Nov-08	04-Nov-08	8110243	
Volatile Organic Compounds by SW846 8260B			VC10								
Prepared by method SW846 5035A Soil (low level)						Initial weight: 11.67 g					
Re-analysis of Volatile Organic Compounds by SW846 8260B											
71-43-2	Benzene	BRL		µg/kg dry	3.7	1	SW846 8260B	06-Nov-08	06-Nov-08	8110410	X
104-51-8	n-Butylbenzene	BRL		µg/kg dry	3.7	1	"	"	"	"	X
135-98-8	sec-Butylbenzene	BRL		µg/kg dry	3.7	1	"	"	"	"	X
98-06-6	tert-Butylbenzene	BRL		µg/kg dry	3.7	1	"	"	"	"	X
100-41-4	Ethylbenzene	BRL		µg/kg dry	3.7	1	"	"	"	"	X
98-82-8	Isopropylbenzene	BRL		µg/kg dry	3.7	1	"	"	"	"	X
99-87-6	4-Isopropyltoluene	BRL		µg/kg dry	3.7	1	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	BRL		µg/kg dry	3.7	1	"	"	"	"	X
91-20-3	Naphthalene	BRL		µg/kg dry	3.7	1	"	"	"	"	X
103-65-1	n-Propylbenzene	BRL		µg/kg dry	3.7	1	"	"	"	"	X
108-88-3	Toluene	BRL		µg/kg dry	3.7	1	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	BRL		µg/kg dry	3.7	1	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	BRL		µg/kg dry	3.7	1	"	"	"	"	X
179601-23-1	m,p-Xylene	BRL		µg/kg dry	7.4	1	"	"	"	"	X
95-47-6	o-Xylene	BRL		µg/kg dry	3.7	1	"	"	"	"	X
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*93*		*70-130 %*			"	"	"	"	
2037-26-5	*Toluene-d8*	*95*		*70-130 %*			"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*119*		*70-130 %*			"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*107*		*70-130 %*			"	"	"	"	
Extractable Petroleum Hydrocarbons											
Extractable Total Petroleum Hydrocarbons											
Prepared by method SW846 3550B											
8006-61-9	Gasoline	BRL		mg/kg dry	32.2	1	+CT ETPH	04-Nov-08	05-Nov-08	8110233	
68476-30-2	Fuel Oil #2	BRL		mg/kg dry	32.2	1	"	"	"	"	
68476-31-3	Fuel Oil #4	BRL		mg/kg dry	32.2	1	"	"	"	"	
68553-00-4	Fuel Oil #6	BRL		mg/kg dry	32.2	1	"	"	"	"	
M09800000	Motor Oil	BRL		mg/kg dry	32.2	1	"	"	"	"	
J00100000	Aviation Fuel	BRL		mg/kg dry	32.2	1	"	"	"	"	
	Unidentified	BRL		mg/kg dry	32.2	1	"	"	"	"	
	Other Oil	BRL		mg/kg dry	32.2	1	"	"	"	"	
	Total Petroleum Hydrocarbons	BRL		mg/kg dry	32.2	1	"	"	"	"	
	C9-C36 Aliphatic Hydrocarbons	BRL		mg/kg dry	32.2	1	"	"	"	"	
Surrogate recoveries:											
3386-33-2	*1-Chlorooctadecane*	*87*		*50-150 %*			"	"	"	"	
General Chemistry Parameters											
	% Solids	82.2		%		1	SM2540 G Mod.	05-Nov-08	05-Nov-08	8110343	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-20 20-22.5 SA86884-07	03-273-35E	Soil	30-Oct-08 00:00	31-Oct-08

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Cert.*
Volatile Organic Compounds											
	VOC Extraction	Field extracted		N/A		1	VOC Soil Extraction	04-Nov-08	04-Nov-08	8110243	
Volatile Organic Compounds by SW846 8260B											
Prepared by method SW846 5035A Soil (low level)					Initial weight: 5.43 g						
71-43-2	Benzene	BRL		µg/kg dry	6.2	1	SW846 8260B	05-Nov-08	05-Nov-08	8110288	X
104-51-8	n-Butylbenzene	BRL		µg/kg dry	6.2	1	"	"	"	"	X
135-98-8	sec-Butylbenzene	BRL		µg/kg dry	6.2	1	"	"	"	"	X
98-06-6	tert-Butylbenzene	BRL		µg/kg dry	6.2	1	"	"	"	"	X
100-41-4	Ethylbenzene	BRL		µg/kg dry	6.2	1	"	"	"	"	X
98-82-8	Isopropylbenzene	BRL		µg/kg dry	6.2	1	"	"	"	"	X
99-87-6	4-Isopropyltoluene	BRL		µg/kg dry	6.2	1	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	BRL		µg/kg dry	6.2	1	"	"	"	"	X
91-20-3	Naphthalene	BRL		µg/kg dry	6.2	1	"	"	"	"	X
103-65-1	n-Propylbenzene	BRL		µg/kg dry	6.2	1	"	"	"	"	X
108-88-3	Toluene	BRL		µg/kg dry	6.2	1	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	BRL		µg/kg dry	6.2	1	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	BRL		µg/kg dry	6.2	1	"	"	"	"	X
179601-23-1	m,p-Xylene	BRL		µg/kg dry	12.3	1	"	"	"	"	X
95-47-6	o-Xylene	BRL		µg/kg dry	6.2	1	"	"	"	"	X
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*97*		*70-130 %*			"	"	"	"	
2037-26-5	*Toluene-d8*	*100*		*70-130 %*			"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*112*		*70-130 %*			"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*105*		*70-130 %*			"	"	"	"	
General Chemistry Parameters											
	% Solids	86.0		%		1	SM2540 G Mod.	06-Nov-08	06-Nov-08	8110420	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-21 12.5-15 SA86884-08	03-273-35E	Soil	30-Oct-08 00:00	31-Oct-08

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
Volatile Organic Compounds											
	VOC Extraction	Field extracted		N/A		1	VOC Soil Extraction	04-Nov-08	04-Nov-08	8110243	
Volatile Organic Compounds by SW846 8260B			VC10								
Prepared by method SW846 5035A Soil (low level)					Initial weight: 8.02 g						
71-43-2	Benzene	BRL		µg/kg dry	4.7	1	SW846 8260B	05-Nov-08	05-Nov-08	8110288	X
104-51-8	n-Butylbenzene	BRL		µg/kg dry	4.7	1	"	"	"	"	X
135-98-8	sec-Butylbenzene	BRL		µg/kg dry	4.7	1	"	"	"	"	X
98-06-6	tert-Butylbenzene	BRL		µg/kg dry	4.7	1	"	"	"	"	X
100-41-4	Ethylbenzene	BRL		µg/kg dry	4.7	1	"	"	"	"	X
98-82-8	Isopropylbenzene	BRL		µg/kg dry	4.7	1	"	"	"	"	X
99-87-6	4-Isopropyltoluene	BRL		µg/kg dry	4.7	1	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	BRL		µg/kg dry	4.7	1	"	"	"	"	X
91-20-3	Naphthalene	BRL		µg/kg dry	4.7	1	"	"	"	"	X
103-65-1	n-Propylbenzene	BRL		µg/kg dry	4.7	1	"	"	"	"	X
108-88-3	Toluene	BRL		µg/kg dry	4.7	1	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	BRL		µg/kg dry	4.7	1	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	BRL		µg/kg dry	4.7	1	"	"	"	"	X
179601-23-1	m,p-Xylene	BRL		µg/kg dry	9.3	1	"	"	"	"	X
95-47-6	o-Xylene	BRL		µg/kg dry	4.7	1	"	"	"	"	X
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*97*		*70-130 %*			"	"	"	"	
2037-26-5	*Toluene-d8*	*100*		*70-130 %*			"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*114*		*70-130 %*			"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*105*		*70-130 %*			"	"	"	"	
General Chemistry Parameters											
	% Solids	84.1		%		1	SM2540 G Mod.	06-Nov-08	06-Nov-08	8110420	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-22 12.5-15 SA86884-09	03-273-35E	Soil	30-Oct-08 00:00	31-Oct-08

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
Volatile Organic Compounds											
	VOC Extraction	Field extracted		N/A		1	VOC Soil Extraction	04-Nov-08	04-Nov-08	8110243	
Volatile Organic Compounds by SW846 8260B			VC10								
Prepared by method SW846 5035A Soil (low level)					Initial weight: 7.65 g						
71-43-2	Benzene	BRL		µg/kg dry	4.7	1	SW846 8260B	05-Nov-08	05-Nov-08	8110288	X
104-51-8	n-Butylbenzene	BRL		µg/kg dry	4.7	1	"	"	"	"	X
135-98-8	sec-Butylbenzene	BRL		µg/kg dry	4.7	1	"	"	"	"	X
98-06-6	tert-Butylbenzene	BRL		µg/kg dry	4.7	1	"	"	"	"	X
100-41-4	Ethylbenzene	BRL		µg/kg dry	4.7	1	"	"	"	"	X
98-82-8	Isopropylbenzene	BRL		µg/kg dry	4.7	1	"	"	"	"	X
99-87-6	4-Isopropyltoluene	BRL		µg/kg dry	4.7	1	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	BRL		µg/kg dry	4.7	1	"	"	"	"	X
91-20-3	Naphthalene	BRL		µg/kg dry	4.7	1	"	"	"	"	X
103-65-1	n-Propylbenzene	BRL		µg/kg dry	4.7	1	"	"	"	"	X
108-88-3	Toluene	BRL		µg/kg dry	4.7	1	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	BRL		µg/kg dry	4.7	1	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	BRL		µg/kg dry	4.7	1	"	"	"	"	X
179601-23-1	m,p-Xylene	BRL		µg/kg dry	9.4	1	"	"	"	"	X
95-47-6	o-Xylene	BRL		µg/kg dry	4.7	1	"	"	"	"	X
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*97*		*70-130 %*			"	"	"	"	
2037-26-5	*Toluene-d8*	*100*		*70-130 %*			"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*113*		*70-130 %*			"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*104*		*70-130 %*			"	"	"	"	
General Chemistry Parameters											
	% Solids	85.2		%		1	SM2540 G Mod.	06-Nov-08	06-Nov-08	8110420	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-23 10-12.5	03-273-35E	Soil	30-Oct-08 00:00	31-Oct-08
SA86884-10				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
Volatile Organic Compounds											
	VOC Extraction	Field extracted		N/A		1	VOC Soil Extraction	04-Nov-08	04-Nov-08	8110243	
Volatile Organic Compounds by SW846 8260B			VC10								
Prepared by method SW846 5035A Soil (low level)					Initial weight: 8.77 g						
71-43-2	Benzene	BRL		µg/kg dry	3.2	1	SW846 8260B	05-Nov-08	05-Nov-08	8110288	X
104-51-8	n-Butylbenzene	BRL		µg/kg dry	3.2	1	"	"	"	"	X
135-98-8	sec-Butylbenzene	BRL		µg/kg dry	3.2	1	"	"	"	"	X
98-06-6	tert-Butylbenzene	BRL		µg/kg dry	3.2	1	"	"	"	"	X
100-41-4	Ethylbenzene	BRL		µg/kg dry	3.2	1	"	"	"	"	X
98-82-8	Isopropylbenzene	BRL		µg/kg dry	3.2	1	"	"	"	"	X
99-87-6	4-Isopropyltoluene	BRL		µg/kg dry	3.2	1	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	BRL		µg/kg dry	3.2	1	"	"	"	"	X
91-20-3	Naphthalene	BRL		µg/kg dry	3.2	1	"	"	"	"	X
103-65-1	n-Propylbenzene	BRL		µg/kg dry	3.2	1	"	"	"	"	X
108-88-3	Toluene	BRL		µg/kg dry	3.2	1	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	BRL		µg/kg dry	3.2	1	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	BRL		µg/kg dry	3.2	1	"	"	"	"	X
179601-23-1	m,p-Xylene	BRL		µg/kg dry	6.4	1	"	"	"	"	X
95-47-6	o-Xylene	BRL		µg/kg dry	3.2	1	"	"	"	"	X
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*96*		*70-130 %*			"	"	"	"	
2037-26-5	*Toluene-d8*	*101*		*70-130 %*			"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*115*		*70-130 %*			"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*105*		*70-130 %*			"	"	"	"	
General Chemistry Parameters											
	% Solids	95.7		%		1	SM2540 G Mod.	06-Nov-08	06-Nov-08	8110420	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-24 12.5-15' SA86884-11	03-273-35E	Soil	30-Oct-08 00:00	31-Oct-08

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
Volatile Organic Compounds											
	VOC Extraction	Field extracted		N/A		1	VOC Soil Extraction	04-Nov-08	04-Nov-08	8110243	
Volatile Organic Compounds by SW846 8260B			VC10			Initial weight: 4.71 g					
Prepared by method SW846 5035A Soil (low level)											
71-43-2	Benzene	BRL		µg/kg dry	7.7	1	SW846 8260B	05-Nov-08	05-Nov-08	8110288	X
104-51-8	n-Butylbenzene	BRL		µg/kg dry	7.7	1	"	"	"	"	X
135-98-8	sec-Butylbenzene	BRL		µg/kg dry	7.7	1	"	"	"	"	X
98-06-6	tert-Butylbenzene	BRL		µg/kg dry	7.7	1	"	"	"	"	X
100-41-4	Ethylbenzene	BRL		µg/kg dry	7.7	1	"	"	"	"	X
98-82-8	Isopropylbenzene	BRL		µg/kg dry	7.7	1	"	"	"	"	X
99-87-6	4-Isopropyltoluene	BRL		µg/kg dry	7.7	1	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	BRL		µg/kg dry	7.7	1	"	"	"	"	X
91-20-3	Naphthalene	BRL		µg/kg dry	7.7	1	"	"	"	"	X
103-65-1	n-Propylbenzene	BRL		µg/kg dry	7.7	1	"	"	"	"	X
108-88-3	Toluene	BRL		µg/kg dry	7.7	1	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	BRL		µg/kg dry	7.7	1	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	BRL		µg/kg dry	7.7	1	"	"	"	"	X
179601-23-1	m,p-Xylene	BRL		µg/kg dry	15.4	1	"	"	"	"	X
95-47-6	o-Xylene	BRL		µg/kg dry	7.7	1	"	"	"	"	X
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*97*		*70-130 %*			"	"	"	"	
2037-26-5	*Toluene-d8*	*101*		*70-130 %*			"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*111*		*70-130 %*			"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*103*		*70-130 %*			"	"	"	"	
General Chemistry Parameters											
	% Solids	81.0		%		1	SM2540 G Mod.	06-Nov-08	06-Nov-08	8110420	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-26 7.5-10' SA86884-13	03-273-35E	Soil	30-Oct-08 00:00	31-Oct-08

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
Volatile Organic Compounds											
	VOC Extraction	Field extracted		N/A		1	VOC Soil Extraction	04-Nov-08	04-Nov-08	8110243	
Volatile Organic Compounds by SW846 8260B			VC10								
Prepared by method SW846 5035A Soil (low level)					Initial weight: 12.13 g						
71-43-2	Benzene	BRL		µg/kg dry	2.4	1	SW846 8260B	05-Nov-08	05-Nov-08	8110288	X
104-51-8	n-Butylbenzene	BRL		µg/kg dry	2.4	1	"	"	"	"	X
135-98-8	sec-Butylbenzene	BRL		µg/kg dry	2.4	1	"	"	"	"	X
98-06-6	tert-Butylbenzene	BRL		µg/kg dry	2.4	1	"	"	"	"	X
100-41-4	Ethylbenzene	BRL		µg/kg dry	2.4	1	"	"	"	"	X
98-82-8	Isopropylbenzene	BRL		µg/kg dry	2.4	1	"	"	"	"	X
99-87-6	4-Isopropyltoluene	BRL		µg/kg dry	2.4	1	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	BRL		µg/kg dry	2.4	1	"	"	"	"	X
91-20-3	Naphthalene	BRL		µg/kg dry	2.4	1	"	"	"	"	X
103-65-1	n-Propylbenzene	BRL		µg/kg dry	2.4	1	"	"	"	"	X
108-88-3	Toluene	BRL		µg/kg dry	2.4	1	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	BRL		µg/kg dry	2.4	1	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	BRL		µg/kg dry	2.4	1	"	"	"	"	X
179601-23-1	m,p-Xylene	BRL		µg/kg dry	4.8	1	"	"	"	"	X
95-47-6	o-Xylene	BRL		µg/kg dry	2.4	1	"	"	"	"	X
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*98*		*70-130 %*			"	"	"	"	
2037-26-5	*Toluene-d8*	*102*		*70-130 %*			"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*116*		*70-130 %*			"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*107*		*70-130 %*			"	"	"	"	
Extractable Petroleum Hydrocarbons											
Extractable Total Petroleum Hydrocarbons											
Prepared by method SW846 3550B											
8006-61-9	Gasoline	BRL		mg/kg dry	27.5	1	+CT ETPH	04-Nov-08	05-Nov-08	8110233	
68476-30-2	Fuel Oil #2	BRL		mg/kg dry	27.5	1	"	"	"	"	
68476-31-3	Fuel Oil #4	BRL		mg/kg dry	27.5	1	"	"	"	"	
68553-00-4	Fuel Oil #6	BRL		mg/kg dry	27.5	1	"	"	"	"	
MD9800000	Motor Oil	BRL		mg/kg dry	27.5	1	"	"	"	"	
J00100000	Aviation Fuel	BRL		mg/kg dry	27.5	1	"	"	"	"	
	Unidentified	BRL		mg/kg dry	27.5	1	"	"	"	"	
	Other Oil	BRL		mg/kg dry	27.5	1	"	"	"	"	
	Total Petroleum Hydrocarbons	BRL		mg/kg dry	27.5	1	"	"	"	"	
	C9-C36 Aliphatic Hydrocarbons	BRL		mg/kg dry	27.5	1	"	"	"	"	
Surrogate recoveries:											
3386-33-2	*1-Chlorooctadecane*	*82*		*50-150 %*			"	"	"	"	
General Chemistry Parameters											
	% Solids	95.5		%		1	SM2540 G Mod.	06-Nov-08	06-Nov-08	8110420	

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* Reportable Detection Limit BRL = Below Reporting Limit

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-26 10-12.5' SA86884-14	03-273-35E	Soil	30-Oct-08 00:00	31-Oct-08

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
Volatile Organic Compounds											
	VOC Extraction	Field extracted		N/A		1	VOC Soil Extraction	04-Nov-08	04-Nov-08	8110243	
Volatile Organic Compounds by SW846 8260B			V11								
Prepared by method SW846 5030 Soil (high level)					Initial weight: 16.44 g						
71-43-2	Benzene	BRL		µg/kg dry	6330	5000	SW846 8260B	05-Nov-08	06-Nov-08	8110346	X
104-51-8	n-Butylbenzene	51,100		µg/kg dry	6330	5000	"	"	"	"	X
135-98-8	sec-Butylbenzene	13,900		µg/kg dry	6330	5000	"	"	"	"	X
98-06-6	tert-Butylbenzene	BRL		µg/kg dry	6330	5000	"	"	"	"	X
100-41-4	Ethylbenzene	241,000		µg/kg dry	6330	5000	"	"	"	"	X
98-82-8	Isopropylbenzene	27,100		µg/kg dry	6330	5000	"	"	"	"	X
99-87-6	4-Isopropyltoluene	8,670		µg/kg dry	6330	5000	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	BRL		µg/kg dry	6330	5000	"	"	"	"	X
91-20-3	Naphthalene	103,000		µg/kg dry	6330	5000	"	"	"	"	X
103-65-1	n-Propylbenzene	125,000		µg/kg dry	6330	5000	"	"	"	"	X
108-88-3	Toluene	337,000		µg/kg dry	6330	5000	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	689,000		µg/kg dry	6330	5000	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	228,000		µg/kg dry	6330	5000	"	"	"	"	X
179601-23-1	m,p-Xylene	986,000		µg/kg dry	12700	5000	"	"	"	"	X
95-47-6	o-Xylene	367,000		µg/kg dry	6330	5000	"	"	"	"	X
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*103*		*70-130 %*			"	"	"	"	
2037-26-5	*Toluene-d8*	*101*		*70-130 %*			"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*114*		*70-130 %*			"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*102*		*70-130 %*			"	"	"	"	
Extractable Petroleum Hydrocarbons											
Extractable Total Petroleum Hydrocarbons											
Prepared by method SW846 3550B											
8006-61-9	Gasoline	3,020		mg/kg dry	36.9	1	+CT ETPH	04-Nov-08	05-Nov-08	8110233	
68476-30-2	Fuel Oil #2	BRL		mg/kg dry	36.9	1	"	"	"	"	
68476-31-3	Fuel Oil #4	BRL		mg/kg dry	36.9	1	"	"	"	"	
68553-00-4	Fuel Oil #6	BRL		mg/kg dry	36.9	1	"	"	"	"	
M09800000	Motor Oil	BRL		mg/kg dry	36.9	1	"	"	"	"	
J00100000	Aviation Fuel	BRL		mg/kg dry	36.9	1	"	"	"	"	
	Unidentified	BRL		mg/kg dry	36.9	1	"	"	"	"	
	Other Oil	BRL		mg/kg dry	36.9	1	"	"	"	"	
	Total Petroleum Hydrocarbons	3,020		mg/kg dry	36.9	1	"	"	"	"	
	C9-C36 Aliphatic Hydrocarbons	3,020		mg/kg dry	36.9	1	"	"	"	"	
Surrogate recoveries:											
3386-33-2	*1-Chlorooctadecane*	*78*		*50-150 %*			"	"	"	"	
General Chemistry Parameters											
	% Solids	84.4		%		1	SM2540 G Mod.	06-Nov-08	06-Nov-08	8110420	

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* Reportable Detection Limit BRL = Below Reporting Limit

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-26 15-17.5' SA86884-15	03-273-35E	Soil	30-Oct-08 00:00	31-Oct-08

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
Volatile Organic Compounds											
	VOC Extraction	Field extracted		N/A		1	VOC Soil Extraction	04-Nov-08	04-Nov-08	8110243	
Volatile Organic Compounds by SW846 8260B			VC10								
Prepared by method SW846 5035A Soil (low level)					Initial weight: 15.75 g						
71-43-2	Benzene	46.9		µg/kg dry	3.0	1	SW846 8260B	06-Nov-08	06-Nov-08	8110410	X
104-51-8	n-Butylbenzene	65.1		µg/kg dry	3.0	1	"	"	"	"	X
135-98-8	sec-Butylbenzene	12.8		µg/kg dry	3.0	1	"	"	"	"	X
98-06-6	tert-Butylbenzene	BRL		µg/kg dry	3.0	1	"	"	"	"	X
100-41-4	Ethylbenzene	292	E	µg/kg dry	3.0	1	"	"	"	"	X
98-82-8	Isopropylbenzene	27.0		µg/kg dry	3.0	1	"	"	"	"	X
99-87-6	4-Isopropyltoluene	10.0		µg/kg dry	3.0	1	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	BRL		µg/kg dry	3.0	1	"	"	"	"	X
91-20-3	Naphthalene	245	E	µg/kg dry	3.0	1	"	"	"	"	X
103-65-1	n-Propylbenzene	119		µg/kg dry	3.0	1	"	"	"	"	X
108-88-3	Toluene	543	E	µg/kg dry	3.0	1	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	502	E	µg/kg dry	3.0	1	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	247	E	µg/kg dry	3.0	1	"	"	"	"	X
179601-23-1	m,p-Xylene	988	E	µg/kg dry	6.0	1	"	"	"	"	X
95-47-6	o-Xylene	392	E	µg/kg dry	3.0	1	"	"	"	"	X
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*105*		*70-130 %*			"	"	"	"	
2037-26-5	*Toluene-d8*	*98*		*70-130 %*			"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*121*		*70-130 %*			"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*108*		*70-130 %*			"	"	"	"	
Re-analysis of Volatile Organic Compounds by SW846 8260B											
71-43-2	Benzene	96.4		µg/kg dry	94.6	100	SW846 8260B	07-Nov-08	07-Nov-08	8110440	X
104-51-8	n-Butylbenzene	158		µg/kg dry	94.6	100	"	"	"	"	X
135-98-8	sec-Butylbenzene	BRL		µg/kg dry	94.6	100	"	"	"	"	X
98-06-6	tert-Butylbenzene	BRL		µg/kg dry	94.6	100	"	"	"	"	X
100-41-4	Ethylbenzene	741		µg/kg dry	94.6	100	"	"	"	"	X
98-82-8	Isopropylbenzene	BRL		µg/kg dry	94.6	100	"	"	"	"	X
99-87-6	4-Isopropyltoluene	BRL		µg/kg dry	94.6	100	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	BRL		µg/kg dry	94.6	100	"	"	"	"	X
91-20-3	Naphthalene	353		µg/kg dry	94.6	100	"	"	"	"	X
103-65-1	n-Propylbenzene	319		µg/kg dry	94.6	100	"	"	"	"	X
108-88-3	Toluene	1,440		µg/kg dry	94.6	100	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	2,080		µg/kg dry	94.6	100	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	676		µg/kg dry	94.6	100	"	"	"	"	X
179601-23-1	m,p-Xylene	2,970		µg/kg dry	189	100	"	"	"	"	X
95-47-6	o-Xylene	1,050		µg/kg dry	94.6	100	"	"	"	"	X
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*105*		*70-130 %*			"	"	"	"	
2037-26-5	*Toluene-d8*	*105*		*70-130 %*			"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*111*		*70-130 %*			"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*99*		*70-130 %*			"	"	"	"	
Extractable Petroleum Hydrocarbons											
Extractable Total Petroleum Hydrocarbons											
Prepared by method SW846 3550B											
8006-61-9	Gasoline	BRL		mg/kg dry	32.0	1	+CT ETPH	04-Nov-08	05-Nov-08	8110233	
68476-30-2	Fuel Oil #2	BRL		mg/kg dry	32.0	1	"	"	"	"	
68476-31-3	Fuel Oil #4	BRL		mg/kg dry	32.0	1	"	"	"	"	
68553-00-4	Fuel Oil #6	BRL		mg/kg dry	32.0	1	"	"	"	"	
M09800000	Motor Oil	BRL		mg/kg dry	32.0	1	"	"	"	"	

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Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-26 15-17.5' SA86884-15	03-273-35E	Soil	30-Oct-08 00:00	31-Oct-08

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Cert.*
Extractable Petroleum Hydrocarbons											
Extractable Total Petroleum Hydrocarbons											
Prepared by method SW846 3550B											
J00100000	Aviation Fuel	BRL		mg/kg dry	32.0	1	+CT ETPH	04-Nov-08	05-Nov-08	8110233	
	Unidentified	BRL		mg/kg dry	32.0	1	"	"	"	"	
	Other Oil	BRL		mg/kg dry	32.0	1	"	"	"	"	
	Total Petroleum Hydrocarbons	BRL		mg/kg dry	32.0	1	"	"	"	"	
	C9-C36 Aliphatic Hydrocarbons	BRL		mg/kg dry	32.0	1	"	"	"	"	
Surrogate recoveries:											
3386-33-2	*1-Chlorooctadecane*	*86*		*50-150 %*			"	"	"	"	
General Chemistry Parameters											
	% Solids	82.5		%		1	SM2540 G Mod.	06-Nov-08	06-Nov-08	8110422	

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* Reportable Detection Limit BRL = Below Reporting Limit

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
Duplicate SA86884-16	03-273-35E	Soil	30-Oct-08 00:00	31-Oct-08

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
Volatile Organic Compounds											
	VOC Extraction	Field extracted		N/A		1	VOC Soil Extraction	04-Nov-08	04-Nov-08	8110243	
Volatile Organic Compounds by SW846 8260B			V11, VC10			Initial weight: 19.31 g					
Prepared by method SW846 5030 Soil (high level)											
71-43-2	Benzene	BRL		µg/kg dry	5960	5000	SW846 8260B	05-Nov-08	06-Nov-08	8110346	X
104-51-8	n-Butylbenzene	22,600		µg/kg dry	5960	5000	"	"	"	"	X
135-98-8	sec-Butylbenzene	6,080		µg/kg dry	5960	5000	"	"	"	"	X
98-06-6	tert-Butylbenzene	BRL		µg/kg dry	5960	5000	"	"	"	"	X
100-41-4	Ethylbenzene	93,000		µg/kg dry	5960	5000	"	"	"	"	X
98-82-8	Isopropylbenzene	11,000		µg/kg dry	5960	5000	"	"	"	"	X
99-87-6	4-Isopropyltoluene	BRL		µg/kg dry	5960	5000	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	BRL		µg/kg dry	5960	5000	"	"	"	"	X
91-20-3	Naphthalene	46,700		µg/kg dry	5960	5000	"	"	"	"	X
103-65-1	n-Propylbenzene	50,800		µg/kg dry	5960	5000	"	"	"	"	X
108-88-3	Toluene	124,000		µg/kg dry	5960	5000	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	328,000		µg/kg dry	5960	5000	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	108,000		µg/kg dry	5960	5000	"	"	"	"	X
179601-23-1	m,p-Xylene	401,000		µg/kg dry	11900	5000	"	"	"	"	X
95-47-6	o-Xylene	150,000		µg/kg dry	5960	5000	"	"	"	"	X
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*104*		*70-130 %*			"	"	"	"	
2037-26-5	*Toluene-d8*	*107*		*70-130 %*			"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*122*		*70-130 %*			"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*107*		*70-130 %*			"	"	"	"	
Extractable Petroleum Hydrocarbons											
Extractable Total Petroleum Hydrocarbons											
Prepared by method SW846 3550B											
8006-61-9	Gasoline	1,090		mg/kg dry	37.0	1	+CT ETPH	04-Nov-08	05-Nov-08	8110233	
68476-30-2	Fuel Oil #2	BRL		mg/kg dry	37.0	1	"	"	"	"	
68476-31-3	Fuel Oil #4	BRL		mg/kg dry	37.0	1	"	"	"	"	
68553-00-4	Fuel Oil #6	BRL		mg/kg dry	37.0	1	"	"	"	"	
M09800000	Motor Oil	BRL		mg/kg dry	37.0	1	"	"	"	"	
J00100000	Aviation Fuel	BRL		mg/kg dry	37.0	1	"	"	"	"	
	Unidentified	BRL		mg/kg dry	37.0	1	"	"	"	"	
	Other Oil	BRL		mg/kg dry	37.0	1	"	"	"	"	
	Total Petroleum Hydrocarbons	1,090		mg/kg dry	37.0	1	"	"	"	"	
	C9-C36 Aliphatic Hydrocarbons	1,090		mg/kg dry	37.0	1	"	"	"	"	
Surrogate recoveries:											
3386-33-2	*1-Chlorooctadecane*	*75*		*50-150 %*			"	"	"	"	
General Chemistry Parameters											
	% Solids	81.1		%		1	SM2540 G Mod.	06-Nov-08	06-Nov-08	8110422	

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* Reportable Detection Limit BRL = Below Reporting Limit

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8110288 - SW846 5035A Soil (low level)										
Blank (8110288-BLK1)										
Prepared & Analyzed: 05-Nov-08										
Benzene	BRL		µg/kg wet	5.0						
n-Butylbenzene	BRL		µg/kg wet	5.0						
sec-Butylbenzene	BRL		µg/kg wet	5.0						
tert-Butylbenzene	BRL		µg/kg wet	5.0						
Ethylbenzene	BRL		µg/kg wet	5.0						
Isopropylbenzene	BRL		µg/kg wet	5.0						
4-Isopropyltoluene	BRL		µg/kg wet	5.0						
Methyl tert-butyl ether	BRL		µg/kg wet	5.0						
Naphthalene	BRL		µg/kg wet	5.0						
n-Propylbenzene	BRL		µg/kg wet	5.0						
Toluene	BRL		µg/kg wet	5.0						
1,2,4-Trimethylbenzene	BRL		µg/kg wet	5.0						
1,3,5-Trimethylbenzene	BRL		µg/kg wet	5.0						
m,p-Xylene	BRL		µg/kg wet	10.0						
o-Xylene	BRL		µg/kg wet	5.0						
Chlorobenzene	BRL		µg/kg wet	5.0						
1,1-Dichloroethene	BRL		µg/kg wet	5.0						
Trichloroethene	BRL		µg/kg wet	5.0						
Surrogate: 4-Bromofluorobenzene	*47.7*		µg/kg wet		*50.0*		*95*	*70-130*		
Surrogate: Toluene-d8	*50.7*		µg/kg wet		*50.0*		*101*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*57.9*		µg/kg wet		*50.0*		*116*	*70-130*		
Surrogate: Dibromofluoromethane	*52.8*		µg/kg wet		*50.0*		*106*	*70-130*		
LCS (8110288-BS1)										
Prepared & Analyzed: 05-Nov-08										
Benzene	20.0		µg/kg wet		20.0		100	70-130		
n-Butylbenzene	20.2		µg/kg wet		20.0		101	70-130		
sec-Butylbenzene	19.8		µg/kg wet		20.0		99	70-130		
tert-Butylbenzene	20.7		µg/kg wet		20.0		104	70-130		
Ethylbenzene	20.4		µg/kg wet		20.0		102	70-130		
Isopropylbenzene	19.2		µg/kg wet		20.0		96	70-130		
4-Isopropyltoluene	20.4		µg/kg wet		20.0		102	70-130		
Methyl tert-butyl ether	21.3		µg/kg wet		20.0		107	70-130		
Naphthalene	21.4		µg/kg wet		20.0		107	70-130		
n-Propylbenzene	20.0		µg/kg wet		20.0		100	70-130		
Toluene	19.8		µg/kg wet		20.0		99	70-130		
1,2,4-Trimethylbenzene	19.5		µg/kg wet		20.0		98	70-130		
1,3,5-Trimethylbenzene	19.7		µg/kg wet		20.0		98	70-130		
m,p-Xylene	42.4		µg/kg wet		40.0		106	70-130		
o-Xylene	21.8		µg/kg wet		20.0		109	70-130		
Surrogate: 4-Bromofluorobenzene	*51.0*		µg/kg wet		*50.0*		*102*	*70-130*		
Surrogate: Toluene-d8	*50.3*		µg/kg wet		*50.0*		*101*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*51.2*		µg/kg wet		*50.0*		*102*	*70-130*		
Surrogate: Dibromofluoromethane	*51.1*		µg/kg wet		*50.0*		*102*	*70-130*		
LCS Dup (8110288-BSD1)										
Prepared & Analyzed: 05-Nov-08										
Benzene	19.5		µg/kg wet		20.0		97	70-130	3	25
n-Butylbenzene	19.7		µg/kg wet		20.0		98	70-130	3	25
sec-Butylbenzene	19.1		µg/kg wet		20.0		95	70-130	4	25
tert-Butylbenzene	20.2		µg/kg wet		20.0		101	70-130	2	25
Ethylbenzene	20.3		µg/kg wet		20.0		101	70-130	0.8	25

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* Reportable Detection Limit BRL = Below Reporting Limit

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8110288 - SW846 5035A Soil (low level)										
LCS Dup (8110288-BSD1)										
Prepared & Analyzed: 05-Nov-08										
Isopropylbenzene	18.8		µg/kg wet		20.0		94	70-130	2	25
4-Isopropyltoluene	20.0		µg/kg wet		20.0		100	70-130	2	25
Methyl tert-butyl ether	19.2		µg/kg wet		20.0		96	70-130	11	25
Naphthalene	19.3		µg/kg wet		20.0		97	70-130	10	25
n-Propylbenzene	19.6		µg/kg wet		20.0		98	70-130	2	25
Toluene	19.3		µg/kg wet		20.0		97	70-130	2	25
1,2,4-Trimethylbenzene	19.1		µg/kg wet		20.0		95	70-130	2	25
1,3,5-Trimethylbenzene	19.4		µg/kg wet		20.0		97	70-130	2	25
m,p-Xylene	41.7		µg/kg wet		40.0		104	70-130	2	25
o-Xylene	21.2		µg/kg wet		20.0		106	70-130	3	25
Surrogate: 4-Bromofluorobenzene	*51.4*		µg/kg wet		*50.0*		*103*	*70-130*		
Surrogate: Toluene-d8	*49.7*		µg/kg wet		*50.0*		*99*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*49.9*		µg/kg wet		*50.0*		*100*	*70-130*		
Surrogate: Dibromofluoromethane	*50.2*		µg/kg wet		*50.0*		*100*	*70-130*		
Batch 8110346 - SW846 5030 Soil (high level)										
Blank (8110346-BLK1)										
Prepared & Analyzed: 05-Nov-08										
Benzene	BRL		µg/kg wet	1.0						
n-Butylbenzene	BRL		µg/kg wet	1.0						
sec-Butylbenzene	BRL		µg/kg wet	1.0						
tert-Butylbenzene	BRL		µg/kg wet	1.0						
Ethylbenzene	BRL		µg/kg wet	1.0						
Isopropylbenzene	BRL		µg/kg wet	1.0						
4-Isopropyltoluene	BRL		µg/kg wet	1.0						
Methyl tert-butyl ether	BRL		µg/kg wet	1.0						
Naphthalene	BRL		µg/kg wet	1.0						
n-Propylbenzene	BRL		µg/kg wet	1.0						
Toluene	BRL		µg/kg wet	1.0						
1,2,4-Trimethylbenzene	BRL		µg/kg wet	1.0						
1,3,5-Trimethylbenzene	BRL		µg/kg wet	1.0						
m,p-Xylene	BRL		µg/kg wet	2.0						
o-Xylene	BRL		µg/kg wet	1.0						
Chlorobenzene	BRL		µg/kg wet	1.0						
1,1-Dichloroethene	BRL		µg/kg wet	1.0						
Trichloroethene	BRL		µg/kg wet	1.0						
Surrogate: 4-Bromofluorobenzene	*30.5*		µg/kg wet		*30.0*		*102*	*70-130*		
Surrogate: Toluene-d8	*30.5*		µg/kg wet		*30.0*		*102*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*32.0*		µg/kg wet		*30.0*		*107*	*70-130*		
Surrogate: Dibromofluoromethane	*30.5*		µg/kg wet		*30.0*		*102*	*70-130*		
LCS (8110346-BS1)										
Prepared & Analyzed: 05-Nov-08										
Benzene	18.8		µg/kg wet		20.0		94	70-130		
n-Butylbenzene	17.8		µg/kg wet		20.0		89	70-130		
sec-Butylbenzene	22.6		µg/kg wet		20.0		113	70-130		
tert-Butylbenzene	24.2		µg/kg wet		20.0		121	70-130		
Ethylbenzene	21.0		µg/kg wet		20.0		105	70-130		
Isopropylbenzene	20.5		µg/kg wet		20.0		103	70-130		
4-Isopropyltoluene	20.6		µg/kg wet		20.0		103	70-130		
Methyl tert-butyl ether	21.3		µg/kg wet		20.0		106	70-130		
Naphthalene	19.9		µg/kg wet		20.0		100	70-130		

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8110346 - SW846 5030 Soil (high level)										
LCS (8110346-BS1)										
Prepared & Analyzed: 05-Nov-08										
n-Propylbenzene	20.1		µg/kg wet		20.0		101	70-130		
Toluene	19.8		µg/kg wet		20.0		99	70-130		
1,2,4-Trimethylbenzene	22.6		µg/kg wet		20.0		113	70-130		
1,3,5-Trimethylbenzene	23.1		µg/kg wet		20.0		116	70-130		
m,p-Xylene	45.0		µg/kg wet		40.0		113	70-130		
o-Xylene	22.7		µg/kg wet		20.0		114	70-130		
Surrogate: 4-Bromofluorobenzene	*31.6*		µg/kg wet		*30.0*		*105*	*70-130*		
Surrogate: Toluene-d8	*31.0*		µg/kg wet		*30.0*		*103*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*32.8*		µg/kg wet		*30.0*		*109*	*70-130*		
Surrogate: Dibromofluoromethane	*31.8*		µg/kg wet		*30.0*		*106*	*70-130*		
LCS Dup (8110346-BSD1)										
Prepared & Analyzed: 05-Nov-08										
Benzene	18.8		µg/kg wet		20.0		94	70-130	0.3	25
n-Butylbenzene	18.4		µg/kg wet		20.0		92	70-130	3	25
sec-Butylbenzene	20.9		µg/kg wet		20.0		104	70-130	8	25
tert-Butylbenzene	22.5		µg/kg wet		20.0		112	70-130	8	25
Ethylbenzene	19.8		µg/kg wet		20.0		99	70-130	6	25
Isopropylbenzene	18.9		µg/kg wet		20.0		95	70-130	8	25
4-Isopropyltoluene	20.3		µg/kg wet		20.0		101	70-130	2	25
Methyl tert-butyl ether	22.0		µg/kg wet		20.0		110	70-130	3	25
Naphthalene	20.3		µg/kg wet		20.0		102	70-130	2	25
n-Propylbenzene	19.3		µg/kg wet		20.0		96	70-130	4	25
Toluene	19.3		µg/kg wet		20.0		97	70-130	3	25
1,2,4-Trimethylbenzene	21.3		µg/kg wet		20.0		106	70-130	6	25
1,3,5-Trimethylbenzene	21.5		µg/kg wet		20.0		107	70-130	7	25
m,p-Xylene	41.6		µg/kg wet		40.0		104	70-130	8	25
o-Xylene	20.8		µg/kg wet		20.0		104	70-130	9	25
Surrogate: 4-Bromofluorobenzene	*30.8*		µg/kg wet		*30.0*		*103*	*70-130*		
Surrogate: Toluene-d8	*30.8*		µg/kg wet		*30.0*		*103*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*34.3*		µg/kg wet		*30.0*		*114*	*70-130*		
Surrogate: Dibromofluoromethane	*32.3*		µg/kg wet		*30.0*		*108*	*70-130*		
Matrix Spike (8110346-MS1) **Source: SA86844-01**										
Prepared: 05-Nov-08 Analyzed: 06-Nov-08										
Benzene	18.0		µg/kg dry		20.0	BRL	90	70-130		
Toluene	19.6		µg/kg dry		20.0	BRL	98	70-130		
Chlorobenzene	21.6		µg/kg dry		20.0	0.0	108	70-130		
1,1-Dichloroethene	19.9		µg/kg dry		20.0	0.0	99	70-130		
Trichloroethene	19.5		µg/kg dry		20.0	0.0	98	70-130		
Surrogate: 4-Bromofluorobenzene	*31.6*		µg/kg dry		*30.0*		*105*	*70-130*		
Surrogate: Toluene-d8	*31.0*		µg/kg dry		*30.0*		*103*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*31.6*		µg/kg dry		*30.0*		*105*	*70-130*		
Surrogate: Dibromofluoromethane	*31.7*		µg/kg dry		*30.0*		*106*	*70-130*		
Matrix Spike Dup (8110346-MSD1) **Source: SA86844-01**										
Prepared: 05-Nov-08 Analyzed: 06-Nov-08										
Benzene	19.4		µg/kg dry		20.0	BRL	97	70-130	7	30
Toluene	20.3		µg/kg dry		20.0	BRL	101	70-130	4	30
Chlorobenzene	22.2		µg/kg dry		20.0	0.0	111	70-130	3	30
1,1-Dichloroethene	21.5		µg/kg dry		20.0	0.0	108	70-130	8	30
Trichloroethene	21.4		µg/kg dry		20.0	0.0	107	70-130	9	30
Surrogate: 4-Bromofluorobenzene	*31.2*		µg/kg dry		*30.0*		*104*	*70-130*		
Surrogate: Toluene-d8	*30.7*		µg/kg dry		*30.0*		*102*	*70-130*		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8110346 - SW846 5030 Soil (high level)										
Matrix Spike Dup (8110346-MSD1) Source: SA86844-01										
Prepared: 05-Nov-08 Analyzed: 06-Nov-08										
Surrogate: 1,2-Dichloroethane-d4	*32.2*		µg/kg dry		*30.0*		*107*	*70-130*		
Surrogate: Dibromofluoromethane	*30.8*		µg/kg dry		*30.0*		*103*	*70-130*		
Batch 8110440 - SW846 5030 Soil (high level)										
Blank (8110440-BLK1)										
Prepared & Analyzed: 07-Nov-08										
Benzene	BRL		µg/kg wet	1.0						
n-Butylbenzene	BRL		µg/kg wet	1.0						
sec-Butylbenzene	BRL		µg/kg wet	1.0						
tert-Butylbenzene	BRL		µg/kg wet	1.0						
Ethylbenzene	BRL		µg/kg wet	1.0						
Isopropylbenzene	BRL		µg/kg wet	1.0						
4-Isopropyltoluene	BRL		µg/kg wet	1.0						
Methyl tert-butyl ether	BRL		µg/kg wet	1.0						
Naphthalene	BRL		µg/kg wet	1.0						
n-Propylbenzene	BRL		µg/kg wet	1.0						
Toluene	BRL		µg/kg wet	1.0						
1,2,4-Trimethylbenzene	BRL		µg/kg wet	1.0						
1,3,5-Trimethylbenzene	BRL		µg/kg wet	1.0						
m,p-Xylene	BRL		µg/kg wet	2.0						
o-Xylene	BRL		µg/kg wet	1.0						
Chlorobenzene	BRL		µg/kg wet	1.0						
1,1-Dichloroethene	BRL		µg/kg wet	1.0						
Trichloroethene	BRL		µg/kg wet	1.0						
Surrogate: 4-Bromofluorobenzene	*33.0*		µg/kg wet		*30.0*		*110*	*70-130*		
Surrogate: Toluene-d8	*30.8*		µg/kg wet		*30.0*		*103*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*32.8*		µg/kg wet		*30.0*		*110*	*70-130*		
Surrogate: Dibromofluoromethane	*31.2*		µg/kg wet		*30.0*		*104*	*70-130*		
LCS (8110440-BS1)										
Prepared & Analyzed: 07-Nov-08										
Benzene	19.6		µg/kg wet		20.0		98	70-130		
n-Butylbenzene	20.3		µg/kg wet		20.0		102	70-130		
sec-Butylbenzene	23.1		µg/kg wet		20.0		115	70-130		
tert-Butylbenzene	24.7		µg/kg wet		20.0		123	70-130		
Ethylbenzene	21.7		µg/kg wet		20.0		108	70-130		
Isopropylbenzene	21.0		µg/kg wet		20.0		105	70-130		
4-Isopropyltoluene	22.2		µg/kg wet		20.0		111	70-130		
Methyl tert-butyl ether	21.4		µg/kg wet		20.0		107	70-130		
Naphthalene	22.7		µg/kg wet		20.0		114	70-130		
n-Propylbenzene	21.6		µg/kg wet		20.0		108	70-130		
Toluene	20.6		µg/kg wet		20.0		103	70-130		
1,2,4-Trimethylbenzene	22.8		µg/kg wet		20.0		114	70-130		
1,3,5-Trimethylbenzene	23.4		µg/kg wet		20.0		117	70-130		
m,p-Xylene	45.6		µg/kg wet		40.0		114	70-130		
o-Xylene	22.5		µg/kg wet		20.0		112	70-130		
Surrogate: 4-Bromofluorobenzene	*31.0*		µg/kg wet		*30.0*		*103*	*70-130*		
Surrogate: Toluene-d8	*30.5*		µg/kg wet		*30.0*		*102*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*33.2*		µg/kg wet		*30.0*		*111*	*70-130*		
Surrogate: Dibromofluoromethane	*31.2*		µg/kg wet		*30.0*		*104*	*70-130*		

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8110440 - SW846 5030 Soil (high level)										
LCS Dup (8110440-BSD1)										
Prepared & Analyzed: 07-Nov-08										
Benzene	18.6		µg/kg wet		20.0		93	70-130	5	25
n-Butylbenzene	19.4		µg/kg wet		20.0		97	70-130	5	25
sec-Butylbenzene	22.8		µg/kg wet		20.0		114	70-130	1	25
tert-Butylbenzene	24.3		µg/kg wet		20.0		121	70-130	2	25
Ethylbenzene	20.8		µg/kg wet		20.0		104	70-130	4	25
Isopropylbenzene	20.6		µg/kg wet		20.0		103	70-130	2	25
4-Isopropyltoluene	21.2		µg/kg wet		20.0		106	70-130	4	25
Methyl tert-butyl ether	20.5		µg/kg wet		20.0		103	70-130	4	25
Naphthalene	21.5		µg/kg wet		20.0		108	70-130	6	25
n-Propylbenzene	21.0		µg/kg wet		20.0		105	70-130	3	25
Toluene	19.8		µg/kg wet		20.0		99	70-130	4	25
1,2,4-Trimethylbenzene	22.8		µg/kg wet		20.0		114	70-130	0.4	25
1,3,5-Trimethylbenzene	23.0		µg/kg wet		20.0		115	70-130	2	25
m,p-Xylene	44.4		µg/kg wet		40.0		111	70-130	3	25
o-Xylene	22.3		µg/kg wet		20.0		111	70-130	0.9	25
Surrogate: 4-Bromofluorobenzene	*31.0*		µg/kg wet		*30.0*		*103*	*70-130*		
Surrogate: Toluene-d8	*31.2*		µg/kg wet		*30.0*		*104*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*32.9*		µg/kg wet		*30.0*		*110*	*70-130*		
Surrogate: Dibromofluoromethane	*31.4*		µg/kg wet		*30.0*		*105*	*70-130*		

Extractable Petroleum Hydrocarbons - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8110233 - SW846 3550B										
Blank (8110233-BLK1)										
Prepared: 04-Nov-08 Analyzed: 05-Nov-08										
Gasoline	BRL		mg/kg wet	13.3						
Fuel Oil #2	BRL		mg/kg wet	13.3						
Fuel Oil #4	BRL		mg/kg wet	13.3						
Fuel Oil #6	BRL		mg/kg wet	13.3						
Motor Oil	BRL		mg/kg wet	13.3						
Aviation Fuel	BRL		mg/kg wet	13.3						
Unidentified	BRL		mg/kg wet	13.3						
Other Oil	BRL		mg/kg wet	13.3						
Total Petroleum Hydrocarbons	BRL		mg/kg wet	13.3						
C9-C36 Aliphatic Hydrocarbons	BRL		mg/kg wet	13.3						
Surrogate: 1-Chlorooctadecane	*3.13*		mg/kg wet		*3.33*		*94*	*50-150*		
LCS (8110233-BS1)										
Prepared: 04-Nov-08 Analyzed: 05-Nov-08										
C9-C36 Aliphatic Hydrocarbons	59.1		mg/kg wet	13.3	93.3		63	60-120		
Surrogate: 1-Chlorooctadecane	*2.17*		mg/kg wet		*3.33*		*65*	*50-150*		
Duplicate (8110233-DUP1) Source: SA86884-04										
Prepared: 04-Nov-08 Analyzed: 05-Nov-08										
Gasoline	BRL		mg/kg dry	32.3		BRL				50
Fuel Oil #2	BRL		mg/kg dry	32.3		BRL				50
Fuel Oil #4	BRL		mg/kg dry	32.3		BRL				50
Fuel Oil #6	BRL		mg/kg dry	32.3		BRL				50
Motor Oil	BRL		mg/kg dry	32.3		BRL				50
Aviation Fuel	BRL		mg/kg dry	32.3		BRL				50
Unidentified	BRL		mg/kg dry	32.3		BRL				50
Other Oil	BRL		mg/kg dry	32.3		BRL				50
Total Petroleum Hydrocarbons	BRL		mg/kg dry	32.3		BRL				50
C9-C36 Aliphatic Hydrocarbons	BRL		mg/kg dry	32.3		BRL				50
Surrogate: 1-Chlorooctadecane	*3.50*		mg/kg dry		*4.05*		*86*	*50-150*		
Matrix Spike (8110233-MS1) Source: SA86884-04										
Prepared: 04-Nov-08 Analyzed: 05-Nov-08										
C9-C36 Aliphatic Hydrocarbons	70.7		mg/kg dry	16.0	112	BRL	63	50-150		
Surrogate: 1-Chlorooctadecane	*2.77*		mg/kg dry		*4.00*		*69*	*50-150*		
Matrix Spike Dup (8110233-MSD1) Source: SA86884-04										
Prepared: 04-Nov-08 Analyzed: 05-Nov-08										
C9-C36 Aliphatic Hydrocarbons	77.2		mg/kg dry	16.0	112	BRL	69	50-150	9	30
Surrogate: 1-Chlorooctadecane	*3.12*		mg/kg dry		*4.00*		*78*	*50-150*		

General Chemistry Parameters - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8110343 - General Preparation										
Duplicate (8110343-DUP1)	**Source: SA86980-04**									
Prepared & Analyzed: 05-Nov-08										
% Solids	87.5		%			88.7			1	20
Batch 8110420 - General Preparation										
Duplicate (8110420-DUP1)	**Source: SA86884-07**									
Prepared & Analyzed: 06-Nov-08										
% Solids	89.8		%			86.0			4	20
Batch 8110422 - General Preparation										
Duplicate (8110422-DUP1)	**Source: SA86884-15**									
Prepared & Analyzed: 06-Nov-08										
% Solids	82.5		%			82.5			0.04	20

Notes and Definitions

E	The concentration indicated for this analyte is an estimated value. This value is considered an estimate (CLP E-flag).
V11	Analyte concentration confirmed by duplicate analysis.
VC10	The VOC preserved soil sample is not within the 1:1 weight to volume ratio as recommended by SW846 methods 5030 and 5035 but may be within the 1:1 volume to volume ratio. This variance may affect the final reporting limit.
VOC8	Reporting limits reflect SW846 5030 extraction technique due to interference using SW846 5035A extraction technique.
BRL	Below Reporting Limit - Analyte NOT DETECTED at or above the reporting limit
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference

A plus sign (+) in the Method Reference column indicates the method is not accredited by NELAC.

Interpretation of Total Petroleum Hydrocarbon Report

Petroleum identification is determined by comparing the GC fingerprint obtained from the sample with a library of GC fingerprints obtained from analyses of various petroleum products. Possible match categories are as follows:

Gasoline - includes regular, unleaded, premium, etc.
Fuel Oil #2 - includes home heating oil, #2 fuel oil, and diesel
Fuel Oil #4 - includes #4 fuel oil
Fuel Oil #6 - includes #6 fuel oil and bunker "C" oil
Motor Oil - includes virgin and waste automobile oil
Ligroin - includes mineral spirits, petroleum naphtha, vm&p naphtha
Aviation Fuel - includes kerosene, Jet A and JP-4
Other Oil - includes lubricating and cutting oil, and silicon oil

At times, the unidentified petroleum product is quantified using a calibration that most closely approximates the distribution of compounds in the sample. When this occurs, the result is qualified as *TPH (Calculated as).

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

Validated by:
Hanibal C. Tayeh, Ph.D.
Nicole Leja

State Of Connecticut
Department of Environmental Protection
Laboratory Quality Control and Quality Assurance Form

Laboratory Name:	Spectrum Analytical, Inc. - Agawam, MA	Project Name and Number:	
Project Location:	Litchfield DOT - Litchfield, CT	Litchfield DOT - Litchfield, CT/ 03-273-35E	
This Form Provides certifications for the following data set: SA86884-01 SA86884-11 SA86884-02 SA86884-12 SA86884-03 SA86884-13 SA86884-04 SA86884-14 SA86884-05 SA86884-15 SA86884-06 SA86884-16 SA86884-07 SA86884-08 SA86884-09 SA86884-10		List Specific Analytical Methods Used: +CT ETPH SM2540 G Mod. SW846 8260B VOC Soil Extraction	
Sample Matrices: Soil/Sediment			

A	Were all samples received by the laboratory in a condition consistent with that described on the Chain of Custody documentation for the data set?	☑ Yes ☐ No
B	Were all QA/QC procedures required for the specified analytical method(s) included in this report followed?	☑ Yes ☐ No
C	Were all QC performance standards and recommendations for the specified methods achieved?	☑ Yes ☐ No
D	Were results for all analyte-list compounds/elements for the specified method(s) reported?	☐ Yes ☑ No *

* The compounds and/or elements reported are as specifically requested by the client on the Chain of Custody and in some cases may not include the full analyte list as defined in the method.

Negative responses for A, B and C are addressed in a case narrative on the cover page of this report.

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

Hanibal C. Tayeh, Ph.D.
President/Laboratory Director

Date: 11/7/2008 4:11:00PM

Reasonable Confidence Protocols
Laboratory Analysis
QA/QC Certification Form

Laboratory Name: Spectrum Analytical, Inc. - Agawam, MA

Client: Diversified Technology Consultants

Project Location: Litchfield DOT - Litchfield, CT

Project Number: 03-273-35E

Sampling Date(s):
30-Oct-08

Laboratory Sample ID(s):
SA86884-01 through SA86884-16

RCP Methods Used: +CT ETPH SW846 8260B

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 CT DEP method-specific Reasonable Confidence Protocol documents?	☑ Yes ☐ No
1A	Were the method specified preservation and holding time requirements met?	☑ Yes ☐ No
1B	***VPH and EPH methods only***: Was the VPH or EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)? * ** These methods have not yet been approved for release by CT DEP*	☐ Yes ☐ No ☑ 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)?	☑ Yes ☐ No
3	Were samples received at an appropriate temperature?	☐ Yes ☑ No ☐ N/A
4	Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved?	☑ Yes ☐ No
5	a) Were reporting limits specified or referenced on the chain-of-custody? * b) Were these reporting limits met? ** Exceptions are defined by qualifiers*	☐ Yes ☑ No ☐ Yes ☐ 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?	☐ Yes ☑ No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	☑ Yes ☐ No

Note: **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."**

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 obtaining the information contained in this analytical report, such information is accurate and complete.

Hanibal C. Tayeh, Ph.D.
President/Laboratory Director

Date: 11/7/2008 4:11:00PM

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 1 of 2

SA-86884

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: Diversified Technology, 556 Washington Ave, North Haven, CT

Project Mgr.: Chris Koelle

Invoice To: /

P.O. No.: DAS Contract 04PSX0173 RQN:

Project No.: 03-273-35E

Site Name: Litchfield-DOT

Location: Litchfield State: CT

Sampler(s): ES

1=$Na_2S_2O_3$ 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid
7=CH_3OH 8=$NaHSO_4$ 9= _____ 10= _____

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

QA Reporting Notes: (check if needed)
- ☐ Provide MA DEP MCP CAM Report
- ☒ Provide CT DEP RCP Report

QA/QC Reporting Level: ☒ Standard ☐ No QC ☐ Other _____
State specific reporting standards: _____

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Preservative	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Aromatics only VOC +MTBE	ETTH							QA Reporting Notes
86884-01	SB-18 10-12.5'	10/30			SO		3	-			X								
02	SB-19 12.5-15							-											
03	SB-19 15-17.5'							-				X	NO	STA					
04	SB-19 17.5-20							-				X							
05	SB-20 15-17.5'							-				X							
06	SB-20 12.5-15							-											
07	SB-20 22.5-25							-											
08	SB-21 12.5-15							-											
09	SB-22 12.5-15							-											divergent containers received 11/3/08
10	SB-23 10-12.5							-											

☐ Fax results when available to (____) _____
☒ E-mail to chris.koelle@teandtc.com
EDD Format _____

Condition upon receipt: ☐ Iced ☐ Ambient ☒ °C 7.4

Relinquished by:	Received by:	Date:	Time:
[signature]	[signature]	10-31-08	10:53
[signature]	[signature]	10/31/08	16:00

86884

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 2 of 2

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: DTC

Project Mgr.: Chris Boelle

Invoice To: DAS Contract

P.O. No.: _____ RQN: _____

Project No.: 03-273-35E

Site Name: Litchfield DOT

Location: Litchfield State: CT

Sampler(s): ES

1=$Na_2S_2O_3$ 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid
7=CH_3OH 8=$NaHSO_4$ 9=_____ 10=_____

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

QA Reporting Notes: (check if needed)
- ☐ Provide MA DEP MCP CAM Report
- ☒ Provide CT DEP RCP Report

QA/QC Reporting Level
- ☒ Standard ☐ No QC
- ☐ Other _____

State specific reporting standards: _____

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Preservative	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Aromatics Only VOCs + MTBE	ETPH
86884-11	SB-24 12.5-15'	10/30			SO		3	1				
12	SB-25 10-12.5'	↓			↓		↓	1			↓	X
13	SB-26 7.5-10'							1				X
14	SB-26 10-12.5'							1				X
15	SB-26 15-17.5'							1				X
16	Duplicate											

☐ Fax results when available to (____) _____
☒ E-mail to _____
EDD Format _____

Condition upon receipt: ☐ Iced ☐ Ambient ☑ °C 7.4

Relinquished by:	Received by:	Date:	Time:
[signature]	[signature]	10-31-08	10:53
[signature]	[signature]	10/31/08	16:00

Appropriate containers received/intact

Report Date:
26-Jun-08 11:23

☑ Final Report
☐ Re-Issued Report
☐ Revised Report

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

Laboratory Report

Diversified Technology Consultants
556 Washington Avenue
North Haven, CT 06473
Attn: Christopher Koelle

Project: Litchfield DOT - Litchfield, CT
Project 03-273-35E

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
SA80340-01	MW-4 9-11'	Soil	13-Jun-08 00:00	19-Jun-08 14:30
SA80340-02	MW-5 9-11'	Soil	13-Jun-08 00:00	19-Jun-08 14:30
SA80340-03	SB-11 10-12.5'	Soil	17-Jun-08 00:00	19-Jun-08 14:30
SA80340-04	SB-11 12.5-15'	Soil	17-Jun-08 00:00	19-Jun-08 14:30
SA80340-05	SB-5 10-12.5'	Soil	17-Jun-08 00:00	19-Jun-08 14:30
SA80340-06	SB-4 7.5-10'	Soil	17-Jun-08 00:00	19-Jun-08 14:30
SA80340-07	SB-4 10-12.5'	Soil	17-Jun-08 00:00	19-Jun-08 14:30
SA80340-08	SB-4 15-17.5'	Soil	17-Jun-08 00:00	19-Jun-08 14:30
SA80340-09	SB-4 17.5-20'	Soil	17-Jun-08 00:00	19-Jun-08 14:30
SA80340-10	SB-6 10-12.5'	Soil	17-Jun-08 00:00	19-Jun-08 14:30
SA80340-11	SB-7 10-12.5'	Soil	17-Jun-08 00:00	19-Jun-08 14:30
SA80340-12	SB-3 7.5-10'	Soil	17-Jun-08 00:00	19-Jun-08 14:30
SA80340-13	SB-3 10-12.5'	Soil	17-Jun-08 00:00	19-Jun-08 14:30
SA80340-14	SB-3 15-17.5'	Soil	17-Jun-08 00:00	19-Jun-08 14:30
SA80340-15	SB-2 7.5-10'	Soil	17-Jun-08 00:00	19-Jun-08 14:30
SA80340-16	SB-2 10-12.5'	Soil	17-Jun-08 00:00	19-Jun-08 14:30
SA80340-17	SB-1 5-7.5'	Soil	17-Jun-08 00:00	19-Jun-08 14:30
SA80340-18	SB-1 10-12.5'	Soil	17-Jun-08 00:00	19-Jun-08 14:30
SA80340-19	SB-1 15-17.5'	Soil	17-Jun-08 00:00	19-Jun-08 14:30
SA80340-20	SB-1 17.5-20'	Soil	17-Jun-08 00:00	19-Jun-08 14:30
SA80340-21	SB-10 7.5-10'	Soil	17-Jun-08 00:00	19-Jun-08 14:30
SA80340-22	SB-10 10-12.5	Soil	17-Jun-08 00:00	19-Jun-08 14:30
SA80340-23	SB-13 7.5-10'	Soil	17-Jun-08 00:00	19-Jun-08 14:30
SA80340-24	SB-13 10-12.5	Soil	17-Jun-08 00:00	19-Jun-08 14:30
SA80340-25	Trip Blank	Methanol	17-Jun-08 00:00	19-Jun-08 14:30

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received.
All applicable NELAC requirements have been met
Please note that this report contains 52 pages of analytical data plus Chain of Custody document(s).
This report may not be reproduced, except in full, without written approval from Spectrum Analytical Inc.

Massachusetts Certification # M-MA138/MA1110
Connecticut # PH-0777
Florida # E87600/E87936
Maine # MA138
New Hampshire # 2538
New Jersey # MA011/MA012
New York # 11393/11840
Rhode Island # 98
USDA # S-51435
Vermont # VT-11393

Authorized by:

Hanibal C. Tayeh, Ph.D.
President/Laboratory Director

Technical Reviewer's Initial:

Spectrum Analytical, Inc. is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Spectrum is currently accredited for the specific method or analyte indicated. Please refer to our "Quality" web page at www.spectrum-analytical.com for a full listing of our current certifications and fields of accreditation. States in which Spectrum Analytical, Inc. holds NELAC certification are New York, New Hampshire, New Jersey and Florida. All analytical work for Volatile Organic and Air analysis are transferred to and conducted at our 830 Silver Street location (NY-11840, FL-E87936 and NJ-MA012).

CASE NARRATIVE:

The samples were received 3.2 degrees Celsius, please refer to the Chain of Custody for details specific to temperature upon receipt An infrared thermometer with a tolerance of+/- 2.0 degrees Celsius was used immediately upon receipt of the samples Temperatures exceeding the +/- 2.0 degrees Celsius may affect sample results as stated in each specific method samples collected for air analysis should be collected and submitted at ambient temperature

CTDEP has published a list of analytical methods which provides a series of recommended protocols for the acquisition analysis and reporting of analytical data in support of decisions being made utilizing the Reasonable Confidence Protocol(RCP). "Reasonable Confidence" can be established only for those methods published by the CTDEP in the RCP guidelines The compounds and/or elements reported were specifically requested by the client on the Chain of Custody and in some cases may not include the full analyte list as defined in the method

The CTDEP RCP requests that "all non-detects and all results below the reporting limit are reported as ND (Not Detected at the Specified Reporting Limit)". All non-detects and all results below the reporting limit are reported as "BRL" (Below the Reporting Limit) in this report.

If no reporting limits were specified or referenced on the chain-of-custody the laboratory's practical quantitation limits were applied

Required site-specific Matrix Spike/Matrix Spike Duplicate (MS/MSD) must be requested by the client and sufficient sample must be submitted for the additional analyses Samples submitted with insufficient volume/weight will not be analyzed for site specific MS/MSD, however a batch MS/MSD may be analyzed from a non-site specific sample.

According to CTDEP RCP Quality Assurance and Quality Control Requirements for VOCs by method8260, SW-846 version 1, 7/28/05 Table 1A, recovery for some VOC analytes have been deemed potentially difficult Although they may still be within the recommended 70%-130% recovery range, a range has been set based on historical control limits

See below for any non-conformances and issues relating to quality control samples and/or sample analysis/matrix.

+CT ETPH

Spikes:

8061741-MS1 *Source: SA80372-21*

The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample

C9-C36 Aliphatic Hydrocarbons

8061741-MSD1 *Source: SA80372-21*

The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample

C9-C36 Aliphatic Hydrocarbons

SW846 6010B

Spikes:

8061594-MSD1 *Source: SA80330-01*

The spike recovery exceeded the QC control limits for the MS and/or MSD. The batch was accepted based upon acceptable PS and/or LCS recovery.

Lead

SW846 8260B

SW846 8260B

Spikes:

8061676-MS1 *Source: SA80395-04*

The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

1,1-Dichloroethene
Benzene
Toluene
Trichloroethene

8061676-MSD1 *Source: SA80395-04*

The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

1,1-Dichloroethene
Benzene
Toluene
Trichloroethene

8061702-MSD1 *Source: SA80363-03*

The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

1,1-Dichloroethene

8061821-MS1 *Source: SA80449-01*

The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

1,1-Dichloroethene

8061821-MSD1 *Source: SA80449-01*

The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

1,1-Dichloroethene

8061959-MSD1 *Source: SA80340-14*

The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

1,1-Dichloroethene

SW846 8260B

Samples:

SA80340-01 *MW-4 9-11'*

The VOC field preserved soil sample is not within the 1:1 weight to volume ratio as recommended by SW846 methods 5030 and 5035 but may be within the 1:1 volume to volume ratio. This variance may affect the final reporting limit

SA80340-03 *SB-11 10-12.5'*

The VOC field preserved soil sample is not within the 1:1 weight to volume ratio as recommended by SW846 methods 5030 and 5035 but may be within the 1:1 volume to volume ratio. This variance may affect the final reporting limit

SA80340-05 *SB-5 10-12.5'*

The VOC field preserved soil sample is not within the 1:1 weight to volume ratio as recommended by SW846 methods 5030 and 5035 but may be within the 1:1 volume to volume ratio. This variance may affect the final reporting limit

SA80340-09 *SB-4 17.5-20'*

The VOC field preserved soil sample is not within the 1:1 weight to volume ratio as recommended by SW846 methods 5030 and 5035 but may be within the 1:1 volume to volume ratio. This variance may affect the final reporting limit

SA80340-11 *SB-7 10-12.5'*

The VOC field preserved soil sample is not within the 1:1 weight to volume ratio as recommended by SW846 methods 5030 and 5035 but may be within the 1:1 volume to volume ratio. This variance may affect the final reporting limit

SA80340-13 *SB-3 10-12.5'*

The VOC field preserved soil sample is not within the 1:1 weight to volume ratio as recommended by SW846 methods 5030 and 5035 but may be within the 1:1 volume to volume ratio. This variance may affect the final reporting limit

SA80340-14 *SB-3 15-17.5'*

Reporting limits reflect SW846 5030 extraction technique due to interference using SW846 5035A extraction technique.

The VOC field preserved soil sample is not within the 1:1 weight to volume ratio as recommended by SW846 methods 5030 and 5035 but may be within the 1:1 volume to volume ratio. This variance may affect the final reporting limit

SA80340-17 *SB-1 5-7.5'*

The VOC field preserved soil sample is not within the 1:1 weight to volume ratio as recommended by SW846 methods 5030 and 5035 but may be within the 1:1 volume to volume ratio. This variance may affect the final reporting limit

SA80340-24 *SB-13 10-12.5*

The VOC field preserved soil sample is not within the 1:1 weight to volume ratio as recommended by SW846 methods 5030 and 5035 but may be within the 1:1 volume to volume ratio. This variance may affect the final reporting limit

SA80340-24RE1 *SB-13 10-12.5*

The VOC field preserved soil sample is not within the 1:1 weight to volume ratio as recommended by SW846 methods 5030 and 5035 but may be within the 1:1 volume to volume ratio. This variance may affect the final reporting limit

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-4 9-11' SA80340-01	03-273-35E	Soil	13-Jun-08 00:00	19-Jun-08

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Analyst
Volatile Organic Compounds											
	VOC Extraction	Field extracted		N/A		1	VOC Soil Extraction	20-Jun-08	20-Jun-08	8061639	JB
Volatile Organic Compounds by SW846 8260B			VC10			Initial weight: 6.69 g					
Prepared by method SW846 5035A Soil (low level)											
71-43-2	Benzene	BRL		µg/kg dry	4.7	1	SW846 8260B	23-Jun-08	23-Jun-08	8061676	JLD
104-51-8	n-Butylbenzene	BRL		µg/kg dry	4.7	1	"	"	"	"	"
135-98-8	sec-Butylbenzene	BRL		µg/kg dry	4.7	1	"	"	"	"	"
98-06-6	tert-Butylbenzene	BRL		µg/kg dry	4.7	1	"	"	"	"	"
100-41-4	Ethylbenzene	BRL		µg/kg dry	4.7	1	"	"	"	"	"
98-82-8	Isopropylbenzene	BRL		µg/kg dry	4.7	1	"	"	"	"	"
99-87-6	4-Isopropyltoluene	BRL		µg/kg dry	4.7	1	"	"	"	"	"
1634-04-4	Methyl tert-butyl ether	BRL		µg/kg dry	4.7	1	"	"	"	"	"
91-20-3	Naphthalene	BRL		µg/kg dry	4.7	1	"	"	"	"	"
103-65-1	n-Propylbenzene	BRL		µg/kg dry	4.7	1	"	"	"	"	"
108-88-3	Toluene	120		µg/kg dry	4.7	1	"	"	"	"	"
95-63-6	1,2,4-Trimethylbenzene	BRL		µg/kg dry	4.7	1	"	"	"	"	"
108-67-8	1,3,5-Trimethylbenzene	BRL		µg/kg dry	4.7	1	"	"	"	"	"
179601-23-1	m,p-Xylene	BRL		µg/kg dry	9.3	1	"	"	"	"	"
95-47-6	o-Xylene	BRL		µg/kg dry	4.7	1	"	"	"	"	"
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*102*		*70-130 %*			"	"	"	"	"
2037-26-5	*Toluene-d8*	*101*		*70-130 %*			"	"	"	"	"
17060-07-0	*1,2-Dichloroethane-d4*	*122*		*70-130 %*			"	"	"	"	"
1868-53-7	*Dibromofluoromethane*	*105*		*70-130 %*			"	"	"	"	"
Extractable Petroleum Hydrocarbons											
Extractable Total Petroleum Hydrocarbons											
Prepared by method SW846 3550B											
8006-61-9	Gasoline	BRL		mg/kg dry	28.9	1	+CT ETPH	24-Jun-08	25-Jun-08	8061741	SHM
68476-30-2	Fuel Oil #2	BRL		mg/kg dry	28.9	1	"	"	"	"	"
68476-31-3	Fuel Oil #4	BRL		mg/kg dry	28.9	1	"	"	"	"	"
68553-00-4	Fuel Oil #6	BRL		mg/kg dry	28.9	1	"	"	"	"	"
M09800000	Motor Oil	BRL		mg/kg dry	28.9	1	"	"	"	"	"
J00100000	Aviation Fuel	BRL		mg/kg dry	28.9	1	"	"	"	"	"
	Unidentified	BRL		mg/kg dry	28.9	1	"	"	"	"	"
	Other Oil	BRL		mg/kg dry	28.9	1	"	"	"	"	"
	Total Petroleum Hydrocarbons	BRL		mg/kg dry	28.9	1	"	"	"	"	"
	C9-C36 Aliphatic Hydrocarbons	BRL		mg/kg dry	28.9	1	"	"	"	"	"
Surrogate recoveries:											
3386-33-2	*1-Chlorooctadecane*	*74*		*50-150 %*			"	"	"	"	"
General Chemistry Parameters											
	% Solids	90.5		%		1	SM2540 G Mod.	20-Jun-08	20-Jun-08	8061612	JB

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-5 9-11' SA80340-02	03-273-35E	Soil	13-Jun-08 00:00	19-Jun-08

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Analyst
Volatile Organic Compounds											
	VOC Extraction	Field extracted		N/A		1	VOC Soil Extraction	20-Jun-08	20-Jun-08	8061639	JB
Volatile Organic Compounds by SW846 8260B											
Prepared by method SW846 5035A Soil (low level)					Initial weight: 4.27 g						
71-43-2	Benzene	BRL		µg/kg dry	7.9	1	SW846 8260B	24-Jun-08	24-Jun-08	8061815	JLD
104-51-8	n-Butylbenzene	BRL		µg/kg dry	7.9	1	"	"	"	"	"
135-98-8	sec-Butylbenzene	BRL		µg/kg dry	7.9	1	"	"	"	"	"
98-06-6	tert-Butylbenzene	BRL		µg/kg dry	7.9	1	"	"	"	"	"
100-41-4	Ethylbenzene	BRL		µg/kg dry	7.9	1	"	"	"	"	"
98-82-8	Isopropylbenzene	BRL		µg/kg dry	7.9	1	"	"	"	"	"
99-87-6	4-Isopropyltoluene	BRL		µg/kg dry	7.9	1	"	"	"	"	"
1634-04-4	Methyl tert-butyl ether	BRL		µg/kg dry	7.9	1	"	"	"	"	"
91-20-3	Naphthalene	BRL		µg/kg dry	7.9	1	"	"	"	"	"
103-65-1	n-Propylbenzene	BRL		µg/kg dry	7.9	1	"	"	"	"	"
108-88-3	Toluene	14.9		µg/kg dry	7.9	1	"	"	"	"	"
95-63-6	1,2,4-Trimethylbenzene	BRL		µg/kg dry	7.9	1	"	"	"	"	"
108-67-8	1,3,5-Trimethylbenzene	BRL		µg/kg dry	7.9	1	"	"	"	"	"
179601-23-1	m,p-Xylene	BRL		µg/kg dry	15.9	1	"	"	"	"	"
95-47-6	o-Xylene	BRL		µg/kg dry	7.9	1	"	"	"	"	"
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*101*		*70-130 %*			"	"	"	"	"
2037-26-5	*Toluene-d8*	*103*		*70-130 %*			"	"	"	"	"
17060-07-0	*1,2-Dichloroethane-d4*	*123*		*70-130 %*			"	"	"	"	"
1868-53-7	*Dibromofluoromethane*	*113*		*70-130 %*			"	"	"	"	"
Extractable Petroleum Hydrocarbons											
Extractable Total Petroleum Hydrocarbons											
Prepared by method SW846 3550B											
8006-61-9	Gasoline	BRL		mg/kg dry	30.0	1	+CT ETPH	24-Jun-08	25-Jun-08	8061741	SHM
68476-30-2	Fuel Oil #2	BRL		mg/kg dry	30.0	1	"	"	"	"	"
68476-31-3	Fuel Oil #4	BRL		mg/kg dry	30.0	1	"	"	"	"	"
68553-00-4	Fuel Oil #6	BRL		mg/kg dry	30.0	1	"	"	"	"	"
M09800000	Motor Oil	BRL		mg/kg dry	30.0	1	"	"	"	"	"
J00100000	Aviation Fuel	BRL		mg/kg dry	30.0	1	"	"	"	"	"
	Unidentified	BRL		mg/kg dry	30.0	1	"	"	"	"	"
	Other Oil	BRL		mg/kg dry	30.0	1	"	"	"	"	"
	Total Petroleum Hydrocarbons	BRL		mg/kg dry	30.0	1	"	"	"	"	"
	C9-C36 Aliphatic Hydrocarbons	BRL		mg/kg dry	30.0	1	"	"	"	"	"
Surrogate recoveries:											
3386-33-2	*1-Chlorooctadecane*	*79*		*50-150 %*			"	"	"	"	"
General Chemistry Parameters											
	% Solids	84.0		%		1	SM2540 G Mod.	20-Jun-08	20-Jun-08	8061612	JB

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* Reportable Detection Limit BRL = Below Reporting Limit

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-11 10-12.5' SA80340-03	03-273-35E	Soil	17-Jun-08 00:00	19-Jun-08

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Analyst
Volatile Organic Compounds											
	VOC Extraction	Field extracted		N/A		1	VOC Soil Extraction	20-Jun-08	20-Jun-08	8061639	JB
Volatile Organic Compounds by SW846 8260B			VC10								
Prepared by method SW846 5035A Soil (low level)					Initial weight: 8.51 g						
71-43-2	Benzene	BRL		µg/kg dry	3.2	1	SW846 8260B	23-Jun-08	23-Jun-08	8061676	JLD
104-51-8	n-Butylbenzene	BRL		µg/kg dry	3.2	1	"	"	"	"	"
135-98-8	sec-Butylbenzene	BRL		µg/kg dry	3.2	1	"	"	"	"	"
98-06-6	tert-Butylbenzene	BRL		µg/kg dry	3.2	1	"	"	"	"	"
100-41-4	Ethylbenzene	BRL		µg/kg dry	3.2	1	"	"	"	"	"
98-82-8	Isopropylbenzene	BRL		µg/kg dry	3.2	1	"	"	"	"	"
99-87-6	4-Isopropyltoluene	BRL		µg/kg dry	3.2	1	"	"	"	"	"
1634-04-4	Methyl tert-butyl ether	BRL		µg/kg dry	3.2	1	"	"	"	"	"
91-20-3	Naphthalene	BRL		µg/kg dry	3.2	1	"	"	"	"	"
103-65-1	n-Propylbenzene	BRL		µg/kg dry	3.2	1	"	"	"	"	"
108-88-3	Toluene	6.4		µg/kg dry	3.2	1	"	"	"	"	"
95-63-6	1,2,4-Trimethylbenzene	BRL		µg/kg dry	3.2	1	"	"	"	"	"
108-67-8	1,3,5-Trimethylbenzene	BRL		µg/kg dry	3.2	1	"	"	"	"	"
179601-23-1	m,p-Xylene	BRL		µg/kg dry	6.5	1	"	"	"	"	"
95-47-6	o-Xylene	BRL		µg/kg dry	3.2	1	"	"	"	"	"
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*103*		*70-130 %*			"	"	"	"	"
2037-26-5	*Toluene-d8*	*103*		*70-130 %*			"	"	"	"	"
17060-07-0	*1,2-Dichloroethane-d4*	*130*		*70-130 %*			"	"	"	"	"
1868-53-7	*Dibromofluoromethane*	*106*		*70-130 %*			"	"	"	"	"
Extractable Petroleum Hydrocarbons											
Extractable Total Petroleum Hydrocarbons											
Prepared by method SW846 3550B											
8006-61-9	Gasoline	BRL		mg/kg dry	27.6	1	+CT ETPH	24-Jun-08	25-Jun-08	8061741	SHM
68476-30-2	Fuel Oil #2	BRL		mg/kg dry	27.6	1	"	"	"	"	"
68476-31-3	Fuel Oil #4	BRL		mg/kg dry	27.6	1	"	"	"	"	"
68553-00-4	Fuel Oil #6	BRL		mg/kg dry	27.6	1	"	"	"	"	"
M09600000	Motor Oil	BRL		mg/kg dry	27.6	1	"	"	"	"	"
J00100000	Aviation Fuel	BRL		mg/kg dry	27.6	1	"	"	"	"	"
	Unidentified	BRL		mg/kg dry	27.6	1	"	"	"	"	"
	Other Oil	BRL		mg/kg dry	27.6	1	"	"	"	"	"
	Total Petroleum Hydrocarbons	BRL		mg/kg dry	27.6	1	"	"	"	"	"
	C9-C36 Aliphatic Hydrocarbons	BRL		mg/kg dry	27.6	1	"	"	"	"	"
Surrogate recoveries:											
3386-33-2	*1-Chlorooctadecane*	*60*		*50-150 %*			"	"	"	"	"
General Chemistry Parameters											
	% Solids	96.2		%		1	SM2540 G Mod.	20-Jun-08	20-Jun-08	8061612	JB

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* Reportable Detection Limit BRL = Below Reporting Limit

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-11 12.5-15' SA80340-04	03-273-35E	Soil	17-Jun-08 00:00	19-Jun-08

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Analyst
Volatile Organic Compounds											
	VOC Extraction	Field extracted		N/A		1	VOC Soil Extraction	20-Jun-08	20-Jun-08	8061639	JB
Volatile Organic Compounds by SW846 8260B											
Prepared by method SW846 5030 Soil (high level)					Initial weight: 16.69 g						
71-43-2	Benzene	1,930		µg/kg dry	1160	1000	SW846 8260B	23-Jun-08	23-Jun-08	8061702	ADU
104-51-8	n-Butylbenzene	12,300		µg/kg dry	1160	1000	"	"	"	"	"
135-98-8	sec-Butylbenzene	5,090		µg/kg dry	1160	1000	"	"	"	"	"
98-06-6	tert-Butylbenzene	BRL		µg/kg dry	1160	1000	"	"	"	"	"
100-41-4	Ethylbenzene	118,000		µg/kg dry	1160	1000	"	"	"	"	"
98-82-8	Isopropylbenzene	9,450		µg/kg dry	1160	1000	"	"	"	"	"
99-87-6	4-Isopropyltoluene	6,990		µg/kg dry	1160	1000	"	"	"	"	"
1634-04-4	Methyl tert-butyl ether	BRL		µg/kg dry	1160	1000	"	"	"	"	"
91-20-3	Naphthalene	35,100		µg/kg dry	1160	1000	"	"	"	"	"
103-65-1	n-Propylbenzene	36,100		µg/kg dry	1160	1000	"	"	"	"	"
108-88-3	Toluene	197,000		µg/kg dry	1160	1000	"	"	"	"	"
95-63-6	1,2,4-Trimethylbenzene	221,000		µg/kg dry	1160	1000	"	"	"	"	"
108-67-8	1,3,5-Trimethylbenzene	66,900		µg/kg dry	1160	1000	"	"	"	"	"
179601-23-1	m,p-Xylene	504,000	E	µg/kg dry	2330	1000	"	"	"	"	"
95-47-6	o-Xylene	184,000		µg/kg dry	1160	1000	"	"	"	"	"
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*104*		*70-130 %*			"	"	"	"	"
2037-26-5	*Toluene-d8*	*104*		*70-130 %*			"	"	"	"	"
17060-07-0	*1,2-Dichloroethane-d4*	*95*		*70-130 %*			"	"	"	"	"
1868-53-7	*Dibromofluoromethane*	*97*		*70-130 %*			"	"	"	"	"
Re-analysis of Volatile Organic Compounds by SW846 8260B											
71-43-2	Benzene	BRL		µg/kg dry	5820	5000	SW846 8260B	24-Jun-08	24-Jun-08	8061821	ADU
104-51-8	n-Butylbenzene	21,200		µg/kg dry	5820	5000	"	"	"	"	"
135-98-8	sec-Butylbenzene	14,600		µg/kg dry	5820	5000	"	"	"	"	"
98-06-6	tert-Butylbenzene	BRL		µg/kg dry	5820	5000	"	"	"	"	"
100-41-4	Ethylbenzene	139,000		µg/kg dry	5820	5000	"	"	"	"	"
98-82-8	Isopropylbenzene	11,900		µg/kg dry	5820	5000	"	"	"	"	"
99-87-6	4-Isopropyltoluene	BRL		µg/kg dry	5820	5000	"	"	"	"	"
1634-04-4	Methyl tert-butyl ether	BRL		µg/kg dry	5820	5000	"	"	"	"	"
91-20-3	Naphthalene	47,500		µg/kg dry	5820	5000	"	"	"	"	"
103-65-1	n-Propylbenzene	52,500		µg/kg dry	5820	5000	"	"	"	"	"
108-88-3	Toluene	239,000		µg/kg dry	5820	5000	"	"	"	"	"
95-63-6	1,2,4-Trimethylbenzene	277,000		µg/kg dry	5820	5000	"	"	"	"	"
108-67-8	1,3,5-Trimethylbenzene	90,100		µg/kg dry	5820	5000	"	"	"	"	"
179601-23-1	m,p-Xylene	600,000		µg/kg dry	11600	5000	"	"	"	"	"
95-47-6	o-Xylene	219,000		µg/kg dry	5820	5000	"	"	"	"	"
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*107*		*70-130 %*			"	"	"	"	"
2037-26-5	*Toluene-d8*	*107*		*70-130 %*			"	"	"	"	"
17060-07-0	*1,2-Dichloroethane-d4*	*91*		*70-130 %*			"	"	"	"	"
1868-53-7	*Dibromofluoromethane*	*94*		*70-130 %*			"	"	"	"	"
Extractable Petroleum Hydrocarbons											
Extractable Total Petroleum Hydrocarbons											
Prepared by method SW846 3550B											
8006-61-9	Gasoline	Calculated as		mg/kg dry	44.2	1	+CT ETPH	24-Jun-08	25-Jun-08	8061741	SHM
68476-30-2	Fuel Oil #2	Calculated as		mg/kg dry	44.2	1	"	"	"	"	"
68476-31-3	Fuel Oil #4	BRL		mg/kg dry	44.2	1	"	"	"	"	"
68553-00-4	Fuel Oil #6	BRL		mg/kg dry	44.2	1	"	"	"	"	"
M09800000	Motor Oil	BRL		mg/kg dry	44.2	1	"	"	"	"	"

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Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-11 12.5-15' SA80340-04	03-273-35E	Soil	17-Jun-08 00:00	19-Jun-08

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*
Extractable Petroleum Hydrocarbons											
Extractable Total Petroleum Hydrocarbons											
Prepared by method SW846 3550B											
J00100000	Aviation Fuel	BRL		mg/kg dry	44.2	1	+CT ETPH	24-Jun-08	25-Jun-08	8061741	SHM
	Unidentified	1,010		mg/kg dry	44.2	1	"	"	"	"	"
	Other Oil	Calculated as		mg/kg dry	44.2	1	"	"	"	"	"
	Total Petroleum Hydrocarbons	1,010		mg/kg dry	44.2	1	"	"	"	"	"
	C9-C36 Aliphatic Hydrocarbons	1,010		mg/kg dry	44.2	1	"	"	"	"	"
Surrogate recoveries:											
3386-33-2	*1-Chlorooctadecane*	*102*		*50-150 %*			"	"	"	"	"
Total Metals by EPA 6000/7000 Series Methods											
7439-92-1	Lead	2.07		mg/kg dry	1.48	1	SW846 6010B	20-Jun-08	23-Jun-08	8061594	TBG
General Chemistry Parameters											
	% Solids	87.7		%		1	SM2540 G Mod.	20-Jun-08	20-Jun-08	8061612	JB

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-5 10-12.5' SA80340-05	03-273-35E	Soil	17-Jun-08 00:00	19-Jun-08

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Analyst
Volatile Organic Compounds											
	VOC Extraction	Field extracted		N/A		1	VOC Soil Extraction	20-Jun-08	20-Jun-08	8061639	JB
Volatile Organic Compounds by SW846 8260B			VC10			Initial weight: 3.5 g					
Prepared by method SW846 5035A Soil (low level)											
71-43-2	Benzene	BRL		µg/kg dry	9.3	1	SW846 8260B	23-Jun-08	23-Jun-08	8061676	JLD
104-51-8	n-Butylbenzene	BRL		µg/kg dry	9.3	1	"	"	"	"	"
135-98-8	sec-Butylbenzene	BRL		µg/kg dry	9.3	1	"	"	"	"	"
98-06-6	tert-Butylbenzene	BRL		µg/kg dry	9.3	1	"	"	"	"	"
100-41-4	Ethylbenzene	BRL		µg/kg dry	9.3	1	"	"	"	"	"
98-82-8	Isopropylbenzene	BRL		µg/kg dry	9.3	1	"	"	"	"	"
99-87-6	4-Isopropyltoluene	BRL		µg/kg dry	9.3	1	"	"	"	"	"
1634-04-4	Methyl tert-butyl ether	BRL		µg/kg dry	9.3	1	"	"	"	"	"
91-20-3	Naphthalene	BRL		µg/kg dry	9.3	1	"	"	"	"	"
103-65-1	n-Propylbenzene	BRL		µg/kg dry	9.3	1	"	"	"	"	"
108-88-3	Toluene	98.1		µg/kg dry	9.3	1	"	"	"	"	"
95-63-6	1,2,4-Trimethylbenzene	BRL		µg/kg dry	9.3	1	"	"	"	"	"
108-67-8	1,3,5-Trimethylbenzene	BRL		µg/kg dry	9.3	1	"	"	"	"	"
179601-23-1	m,p-Xylene	BRL		µg/kg dry	18.5	1	"	"	"	"	"
95-47-6	o-Xylene	BRL		µg/kg dry	9.3	1	"	"	"	"	"
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*99*		*70-130 %*			"	"	"	"	"
2037-26-5	*Toluene-d8*	*103*		*70-130 %*			"	"	"	"	"
17060-07-0	*1,2-Dichloroethane-d4*	*122*		*70-130 %*			"	"	"	"	"
1868-53-7	*Dibromofluoromethane*	*103*		*70-130 %*			"	"	"	"	"
Extractable Petroleum Hydrocarbons											
Extractable Total Petroleum Hydrocarbons											
Prepared by method SW846 3550B											
8006-61-9	Gasoline	BRL		mg/kg dry	29.9	1	+CT ETPH	23-Jun-08	24-Jun-08	8061742	SHM
68476-30-2	Fuel Oil #2	BRL		mg/kg dry	29.9	1	"	"	"	"	"
68476-31-3	Fuel Oil #4	BRL		mg/kg dry	29.9	1	"	"	"	"	"
68553-00-4	Fuel Oil #6	BRL		mg/kg dry	29.9	1	"	"	"	"	"
M09800000	Motor Oil	BRL		mg/kg dry	29.9	1	"	"	"	"	"
J00100000	Aviation Fuel	BRL		mg/kg dry	29.9	1	"	"	"	"	"
	Unidentified	BRL		mg/kg dry	29.9	1	"	"	"	"	"
	Other Oil	BRL		mg/kg dry	29.9	1	"	"	"	"	"
	Total Petroleum Hydrocarbons	BRL		mg/kg dry	29.9	1	"	"	"	"	"
	C9-C36 Aliphatic Hydrocarbons	BRL		mg/kg dry	29.9	1	"	"	"	"	"
Surrogate recoveries:											
3386-33-2	*1-Chlorooctadecane*	*52*		*50-150 %*			"	"	"	"	"
General Chemistry Parameters											
	% Solids	85.2		%		1	SM2540 G Mod.	20-Jun-08	20-Jun-08	8061612	JB

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* Reportable Detection Limit BRL = Below Reporting Limit

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-4 7.5-10' SA80340-06	03-273-35E	Soil	17-Jun-08 00:00	19-Jun-08

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Analyst
Volatile Organic Compounds											
	VOC Extraction	Field extracted		N/A		1	VOC Soil Extraction	20-Jun-08	20-Jun-08	8061639	JB
Volatile Organic Compounds by SW846 8260B											
Prepared by method SW846 5035A Soil (low level)					Initial weight: 4.58 g						
71-43-2	Benzene	BRL		µg/kg dry	5.8	1	SW846 8260B	23-Jun-08	23-Jun-08	8061676	JLD
104-51-8	n-Butylbenzene	BRL		µg/kg dry	5.8	1	"	"	"	"	"
135-98-8	sec-Butylbenzene	BRL		µg/kg dry	5.8	1	"	"	"	"	"
98-06-6	tert-Butylbenzene	BRL		µg/kg dry	5.8	1	"	"	"	"	"
100-41-4	Ethylbenzene	BRL		µg/kg dry	5.8	1	"	"	"	"	"
98-82-8	Isopropylbenzene	BRL		µg/kg dry	5.8	1	"	"	"	"	"
99-87-6	4-Isopropyltoluene	BRL		µg/kg dry	5.8	1	"	"	"	"	"
1634-04-4	Methyl tert-butyl ether	BRL		µg/kg dry	5.8	1	"	"	"	"	"
91-20-3	Naphthalene	BRL		µg/kg dry	5.8	1	"	"	"	"	"
103-65-1	n-Propylbenzene	BRL		µg/kg dry	5.8	1	"	"	"	"	"
108-88-3	Toluene	13.6		µg/kg dry	5.8	1	"	"	"	"	"
95-63-6	1,2,4-Trimethylbenzene	BRL		µg/kg dry	5.8	1	"	"	"	"	"
108-67-8	1,3,5-Trimethylbenzene	BRL		µg/kg dry	5.8	1	"	"	"	"	"
179601-23-1	m,p-Xylene	BRL		µg/kg dry	11.5	1	"	"	"	"	"
95-47-6	o-Xylene	BRL		µg/kg dry	5.8	1	"	"	"	"	"
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*102*		*70-130 %*			"	"	"	"	"
2037-26-5	*Toluene-d8*	*103*		*70-130 %*			"	"	"	"	"
17060-07-0	*1,2-Dichloroethane-d4*	*122*		*70-130 %*			"	"	"	"	"
1868-53-7	*Dibromofluoromethane*	*102*		*70-130 %*			"	"	"	"	"
Extractable Petroleum Hydrocarbons											
Extractable Total Petroleum Hydrocarbons											
Prepared by method SW846 3550B											
8006-61-9	Gasoline	BRL		mg/kg dry	26.6	1	+CT ETPH	23-Jun-08	24-Jun-08	8061742	SHM
68476-30-2	Fuel Oil #2	BRL		mg/kg dry	26.6	1	"	"	"	"	"
68476-31-3	Fuel Oil #4	BRL		mg/kg dry	26.6	1	"	"	"	"	"
68553-00-4	Fuel Oil #6	BRL		mg/kg dry	26.6	1	"	"	"	"	"
M09800000	Motor Oil	BRL		mg/kg dry	26.6	1	"	"	"	"	"
J00100000	Aviation Fuel	BRL		mg/kg dry	26.6	1	"	"	"	"	"
	Unidentified	BRL		mg/kg dry	26.6	1	"	"	"	"	"
	Other Oil	BRL		mg/kg dry	26.6	1	"	"	"	"	"
	Total Petroleum Hydrocarbons	BRL		mg/kg dry	26.6	1	"	"	"	"	"
	C9-C36 Aliphatic Hydrocarbons	BRL		mg/kg dry	26.6	1	"	"	"	"	"
Surrogate recoveries:											
3386-33-2	*1-Chlorooctadecane*	*74*		*50-150 %*			"	"	"	"	"
General Chemistry Parameters											
	% Solids	97.2		%		1	SM2540 G Mod.	20-Jun-08	20-Jun-08	8061612	JB

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* Reportable Detection Limit BRL = Below Reporting Limit

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-4 10-12.5' SA80340-07	03-273-35E	Soil	17-Jun-08 00:00	19-Jun-08

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Analyst
Volatile Organic Compounds											
	VOC Extraction	Field extracted		N/A		1	VOC Soil Extraction	20-Jun-08	20-Jun-08	8061639	JB
Volatile Organic Compounds by SW846 8260B											
Prepared by method SW846 5030 Soil (high level)					Initial weight: 12.63 g						
71-43-2	Benzene	BRL		µg/kg dry	84.1	50	SW846 8260B	24-Jun-08	24-Jun-08	8061821	ADU
104-51-8	n-Butylbenzene	172		µg/kg dry	84.1	50	"	"	"	"	"
135-98-8	sec-Butylbenzene	BRL		µg/kg dry	84.1	50	"	"	"	"	"
98-06-6	tert-Butylbenzene	BRL		µg/kg dry	84.1	50	"	"	"	"	"
100-41-4	Ethylbenzene	570		µg/kg dry	84.1	50	"	"	"	"	"
98-82-8	Isopropylbenzene	BRL		µg/kg dry	84.1	50	"	"	"	"	"
99-87-6	4-Isopropyltoluene	BRL		µg/kg dry	84.1	50	"	"	"	"	"
1634-04-4	Methyl tert-butyl ether	BRL		µg/kg dry	84.1	50	"	"	"	"	"
91-20-3	Naphthalene	334		µg/kg dry	84.1	50	"	"	"	"	"
103-65-1	n-Propylbenzene	314		µg/kg dry	84.1	50	"	"	"	"	"
108-88-3	Toluene	1,200		µg/kg dry	84.1	50	"	"	"	"	"
95-63-6	1,2,4-Trimethylbenzene	1,500		µg/kg dry	84.1	50	"	"	"	"	"
108-67-8	1,3,5-Trimethylbenzene	555		µg/kg dry	84.1	50	"	"	"	"	"
179601-23-1	m,p-Xylene	2,730		µg/kg dry	168	50	"	"	"	"	"
95-47-6	o-Xylene	1,070		µg/kg dry	84.1	50	"	"	"	"	"
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*111*		*70-130 %*			"	"	"	"	"
2037-26-5	*Toluene-d8*	*100*		*70-130 %*			"	"	"	"	"
17060-07-0	*1,2-Dichloroethane-d4*	*95*		*70-130 %*			"	"	"	"	"
1868-53-7	*Dibromofluoromethane*	*98*		*70-130 %*			"	"	"	"	"
Extractable Petroleum Hydrocarbons											
Extractable Total Petroleum Hydrocarbons											
Prepared by method SW846 3550B											
8006-61-9	Gasoline	BRL		mg/kg dry	44.6	1	+CT ETPH	23-Jun-08	24-Jun-08	8061742	SHM
68476-30-2	Fuel Oil #2	BRL		mg/kg dry	44.6	1	"	"	"	"	"
68476-31-3	Fuel Oil #4	BRL		mg/kg dry	44.6	1	"	"	"	"	"
68553-00-4	Fuel Oil #6	BRL		mg/kg dry	44.6	1	"	"	"	"	"
M09800000	Motor Oil	BRL		mg/kg dry	44.6	1	"	"	"	"	"
J00100000	Aviation Fuel	BRL		mg/kg dry	44.6	1	"	"	"	"	"
	Unidentified	66.2		mg/kg dry	44.6	1	"	"	"	"	"
	Other Oil	Calculated as		mg/kg dry	44.6	1	"	"	"	"	"
	Total Petroleum Hydrocarbons	66.2		mg/kg dry	44.6	1	"	"	"	"	"
	C9-C36 Aliphatic Hydrocarbons	66.2		mg/kg dry	44.6	1	"	"	"	"	"
Surrogate recoveries:											
3386-33-2	*1-Chlorooctadecane*	*80*		*50-150 %*			"	"	"	"	"
Total Metals by EPA 6000/7000 Series Methods											
7439-92-1	Lead	2.60		mg/kg dry	1.77	1	SW846 6010B	20-Jun-08	23-Jun-08	8061594	TBG
General Chemistry Parameters											
	% Solids	81.6		%		1	SM2540 G Mod.	20-Jun-08	20-Jun-08	8061612	JB

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-4 15-17.5' SA80340-08	03-273-35E	Soil	17-Jun-08 00:00	19-Jun-08

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Analyst
Volatile Organic Compounds											
	VOC Extraction	Field extracted		N/A		1	VOC Soil Extraction	20-Jun-08	20-Jun-08	8061639	JB
Volatile Organic Compounds by SW846 8260B											
Prepared by method SW846 5030 Soil (high level)					Initial weight: 12.3 g						
71-43-2	Benzene	BRL		µg/kg dry	161	100	SW846 8260B	23-Jun-08	23-Jun-08	8061702	ADU
104-51-8	n-Butylbenzene	3,940		µg/kg dry	161	100	"	"	"	"	"
135-98-8	sec-Butylbenzene	1,170		µg/kg dry	161	100	"	"	"	"	"
98-06-6	tert-Butylbenzene	BRL		µg/kg dry	161	100	"	"	"	"	"
100-41-4	Ethylbenzene	14,000		µg/kg dry	161	100	"	"	"	"	"
98-82-8	Isopropylbenzene	2,220		µg/kg dry	161	100	"	"	"	"	"
99-87-6	4-Isopropyltoluene	837		µg/kg dry	161	100	"	"	"	"	"
1634-04-4	Methyl tert-butyl ether	BRL		µg/kg dry	161	100	"	"	"	"	"
91-20-3	Naphthalene	7,210		µg/kg dry	161	100	"	"	"	"	"
103-65-1	n-Propylbenzene	7,880		µg/kg dry	161	100	"	"	"	"	"
108-88-3	Toluene	6,180		µg/kg dry	161	100	"	"	"	"	"
95-63-6	1,2,4-Trimethylbenzene	64,300	E	µg/kg dry	161	100	"	"	"	"	"
108-67-8	1,3,5-Trimethylbenzene	20,300		µg/kg dry	161	100	"	"	"	"	"
179601-23-1	m,p-Xylene	87,900	E	µg/kg dry	323	100	"	"	"	"	"
95-47-6	o-Xylene	31,100		µg/kg dry	161	100	"	"	"	"	"
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*111*		*70-130 %*			"	"	"	"	"
2037-26-5	*Toluene-d8*	*108*		*70-130 %*			"	"	"	"	"
17060-07-0	*1,2-Dichloroethane-d4*	*96*		*70-130 %*			"	"	"	"	"
1868-53-7	*Dibromofluoromethane*	*98*		*70-130 %*			"	"	"	"	"
Re-analysis of Volatile Organic Compounds by SW846 8260B											
71-43-2	Benzene	BRL		µg/kg dry	1610	1000	SW846 8260B	24-Jun-08	24-Jun-08	8061821	ADU
104-51-8	n-Butylbenzene	5,360		µg/kg dry	1610	1000	"	"	"	"	"
135-98-8	sec-Butylbenzene	3,750		µg/kg dry	1610	1000	"	"	"	"	"
98-06-6	tert-Butylbenzene	BRL		µg/kg dry	1610	1000	"	"	"	"	"
100-41-4	Ethylbenzene	12,400		µg/kg dry	1610	1000	"	"	"	"	"
98-82-8	Isopropylbenzene	2,000		µg/kg dry	1610	1000	"	"	"	"	"
99-87-6	4-Isopropyltoluene	BRL		µg/kg dry	1610	1000	"	"	"	"	"
1634-04-4	Methyl tert-butyl ether	BRL		µg/kg dry	1610	1000	"	"	"	"	"
91-20-3	Naphthalene	7,740		µg/kg dry	1610	1000	"	"	"	"	"
103-65-1	n-Propylbenzene	9,420		µg/kg dry	1610	1000	"	"	"	"	"
108-88-3	Toluene	5,640		µg/kg dry	1610	1000	"	"	"	"	"
95-63-6	1,2,4-Trimethylbenzene	53,700		µg/kg dry	1610	1000	"	"	"	"	"
108-67-8	1,3,5-Trimethylbenzene	19,300		µg/kg dry	1610	1000	"	"	"	"	"
179601-23-1	m,p-Xylene	74,700		µg/kg dry	3230	1000	"	"	"	"	"
95-47-6	o-Xylene	26,000		µg/kg dry	1610	1000	"	"	"	"	"
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*103*		*70-130 %*			"	"	"	"	"
2037-26-5	*Toluene-d8*	*103*		*70-130 %*			"	"	"	"	"
17060-07-0	*1,2-Dichloroethane-d4*	*94*		*70-130 %*			"	"	"	"	"
1868-53-7	*Dibromofluoromethane*	*97*		*70-130 %*			"	"	"	"	"
Extractable Petroleum Hydrocarbons											
Extractable Total Petroleum Hydrocarbons											
Prepared by method SW846 3550B											
8006-61-9	Gasoline	BRL		mg/kg dry	30.4	1	+CT ETPH	23-Jun-08	24-Jun-08	8061742	SHM
68476-30-2	Fuel Oil #2	BRL		mg/kg dry	30.4	1	"	"	"	"	"
68476-31-3	Fuel Oil #4	BRL		mg/kg dry	30.4	1	"	"	"	"	"
68553-00-4	Fuel Oil #6	BRL		mg/kg dry	30.4	1	"	"	"	"	"
M09800000	Motor Oil	BRL		mg/kg dry	30.4	1	"	"	"	"	"

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* Reportable Detection Limit BRL = Below Reporting Limit

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-4 15-17.5' SA80340-08	03-273-35E	Soil	17-Jun-08 00:00	19-Jun-08

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*
Extractable Petroleum Hydrocarbons											
Extractable Total Petroleum Hydrocarbons											
Prepared by method SW846 3550B											
J00100000	Aviation Fuel	BRL		mg/kg dry	30.4	1	+CT ETPH	23-Jun-08	24-Jun-08	8061742	SHM
	Unidentified	BRL		mg/kg dry	30.4	1	"	"	"	"	"
	Other Oil	BRL		mg/kg dry	30.4	1	"	"	"	"	"
	Total Petroleum Hydrocarbons	BRL		mg/kg dry	30.4	1	"	"	"	"	"
	C9-C36 Aliphatic Hydrocarbons	BRL		mg/kg dry	30.4	1	"	"	"	"	"
Surrogate recoveries:											
3386-33-2	*1-Chlorooctadecane*	*84*		*50-150 %*			"	"	"	"	"
Total Metals by EPA 6000/7000 Series Methods											
7439-92-1	Lead	BRL		mg/kg dry	1.69	1	SW846 6010B	20-Jun-08	23-Jun-08	8061594	TBG
General Chemistry Parameters											
	% Solids	84.9		%		1	SM2540 G Mod.	20-Jun-08	20-Jun-08	8061612	JB

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-4 17.5-20' SA80340-09	03-273-35E	Soil	17-Jun-08 00:00	19-Jun-08

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Analyst
Volatile Organic Compounds											
	VOC Extraction	Field extracted		N/A		1	VOC Soil Extraction	20-Jun-08	20-Jun-08	8061639	JB
Volatile Organic Compounds by SW846 8260B			VC10								
Prepared by method SW846 5030 Soil (high level)					Initial weight: 9.39 g						
71-43-2	Benzene	BRL		µg/kg dry	111	50	SW846 8260B	23-Jun-08	23-Jun-08	8061702	ADU
104-51-8	n-Butylbenzene	BRL		µg/kg dry	111	50	"	"	"	"	"
135-98-8	sec-Butylbenzene	BRL		µg/kg dry	111	50	"	"	"	"	"
98-06-6	tert-Butylbenzene	BRL		µg/kg dry	111	50	"	"	"	"	"
100-41-4	Ethylbenzene	BRL		µg/kg dry	111	50	"	"	"	"	"
98-82-8	Isopropylbenzene	BRL		µg/kg dry	111	50	"	"	"	"	"
99-87-6	4-Isopropyltoluene	BRL		µg/kg dry	111	50	"	"	"	"	"
1634-04-4	Methyl tert-butyl ether	BRL		µg/kg dry	111	50	"	"	"	"	"
91-20-3	Naphthalene	212		µg/kg dry	111	50	"	"	"	"	"
103-65-1	n-Propylbenzene	BRL		µg/kg dry	111	50	"	"	"	"	"
108-88-3	Toluene	BRL		µg/kg dry	111	50	"	"	"	"	"
95-63-6	1,2,4-Trimethylbenzene	BRL		µg/kg dry	111	50	"	"	"	"	"
108-67-8	1,3,5-Trimethylbenzene	BRL		µg/kg dry	111	50	"	"	"	"	"
179601-23-1	m,p-Xylene	BRL		µg/kg dry	222	50	"	"	"	"	"
95-47-6	o-Xylene	BRL		µg/kg dry	111	50	"	"	"	"	"
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*108*		*70-130 %*			"	"	"	"	"
2037-26-5	*Toluene-d8*	*100*		*70-130 %*			"	"	"	"	"
17060-07-0	*1,2-Dichloroethane-d4*	*95*		*70-130 %*			"	"	"	"	"
1868-53-7	*Dibromofluoromethane*	*98*		*70-130 %*			"	"	"	"	"
Extractable Petroleum Hydrocarbons											
Extractable Total Petroleum Hydrocarbons											
Prepared by method SW846 3550B											
8006-61-9	Gasoline	BRL		mg/kg dry	32.8	1	+CT ETPH	23-Jun-08	24-Jun-08	8061742	SHM
68476-30-2	Fuel Oil #2	BRL		mg/kg dry	32.8	1	"	"	"	"	"
68476-31-3	Fuel Oil #4	BRL		mg/kg dry	32.8	1	"	"	"	"	"
68553-00-4	Fuel Oil #6	BRL		mg/kg dry	32.8	1	"	"	"	"	"
M09800000	Motor Oil	BRL		mg/kg dry	32.8	1	"	"	"	"	"
J00100000	Aviation Fuel	BRL		mg/kg dry	32.8	1	"	"	"	"	"
	Unidentified	BRL		mg/kg dry	32.8	1	"	"	"	"	"
	Other Oil	BRL		mg/kg dry	32.8	1	"	"	"	"	"
	Total Petroleum Hydrocarbons	BRL		mg/kg dry	32.8	1	"	"	"	"	"
	C9-C36 Aliphatic Hydrocarbons	BRL		mg/kg dry	32.8	1	"	"	"	"	"
Surrogate recoveries:											
3386-33-2	*1-Chlorooctadecane*	*56*		*50-150 %*			"	"	"	"	"
General Chemistry Parameters											
	% Solids	80.8		%		1	SM2540 G Mod.	20-Jun-08	20-Jun-08	8061612	JB

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* Reportable Detection Limit BRL = Below Reporting Limit

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-6 10-12.5' SA80340-10	03-273-35E	Soil	17-Jun-08 00:00	19-Jun-08

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Analyst
Volatile Organic Compounds											
	VOC Extraction	Field extracted		N/A		1	VOC Soil Extraction	20-Jun-08	20-Jun-08	8061639	JB
Volatile Organic Compounds by SW846 8260B											
Prepared by method SW846 5035A Soil (low level)					Initial weight: 4.53 g						
71-43-2	Benzene	BRL		µg/kg dry	7.8	1	SW846 8260B	23-Jun-08	23-Jun-08	8061676	JLD
104-51-8	n-Butylbenzene	BRL		µg/kg dry	7.8	1	"	"	"	"	"
135-98-8	sec-Butylbenzene	BRL		µg/kg dry	7.8	1	"	"	"	"	"
98-06-6	tert-Butylbenzene	BRL		µg/kg dry	7.8	1	"	"	"	"	"
100-41-4	Ethylbenzene	BRL		µg/kg dry	7.8	1	"	"	"	"	"
98-82-8	Isopropylbenzene	BRL		µg/kg dry	7.8	1	"	"	"	"	"
99-87-6	4-Isopropyltoluene	BRL		µg/kg dry	7.8	1	"	"	"	"	"
1634-04-4	Methyl tert-butyl ether	BRL		µg/kg dry	7.8	1	"	"	"	"	"
91-20-3	Naphthalene	BRL		µg/kg dry	7.8	1	"	"	"	"	"
103-65-1	n-Propylbenzene	BRL		µg/kg dry	7.8	1	"	"	"	"	"
108-88-3	Toluene	128		µg/kg dry	7.8	1	"	"	"	"	"
95-63-6	1,2,4-Trimethylbenzene	BRL		µg/kg dry	7.8	1	"	"	"	"	"
108-67-8	1,3,5-Trimethylbenzene	BRL		µg/kg dry	7.8	1	"	"	"	"	"
179601-23-1	m,p-Xylene	BRL		µg/kg dry	15.6	1	"	"	"	"	"
95-47-6	o-Xylene	BRL		µg/kg dry	7.8	1	"	"	"	"	"
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*100*		*70-130 %*			"	"	"	"	"
2037-26-5	*Toluene-d8*	*102*		*70-130 %*			"	"	"	"	"
17060-07-0	*1,2-Dichloroethane-d4*	*122*		*70-130 %*			"	"	"	"	"
1868-53-7	*Dibromofluoromethane*	*102*		*70-130 %*			"	"	"	"	"
Extractable Petroleum Hydrocarbons											
Extractable Total Petroleum Hydrocarbons											
Prepared by method SW846 3550B											
8006-61-9	Gasoline	BRL		mg/kg dry	31.5	1	+CT ETPH	23-Jun-08	24-Jun-08	8061742	SHM
68476-30-2	Fuel Oil #2	BRL		mg/kg dry	31.5	1	"	"	"	"	"
68476-31-3	Fuel Oil #4	BRL		mg/kg dry	31.5	1	"	"	"	"	"
68553-00-4	Fuel Oil #6	BRL		mg/kg dry	31.5	1	"	"	"	"	"
M09800000	Motor Oil	BRL		mg/kg dry	31.5	1	"	"	"	"	"
J00100000	Aviation Fuel	BRL		mg/kg dry	31.5	1	"	"	"	"	"
	Unidentified	BRL		mg/kg dry	31.5	1	"	"	"	"	"
	Other Oil	BRL		mg/kg dry	31.5	1	"	"	"	"	"
	Total Petroleum Hydrocarbons	BRL		mg/kg dry	31.5	1	"	"	"	"	"
	C9-C36 Aliphatic Hydrocarbons	BRL		mg/kg dry	31.5	1	"	"	"	"	"
Surrogate recoveries:											
3386-33-2	*1-Chlorooctadecane*	*70*		*50-150 %*			"	"	"	"	"
General Chemistry Parameters											
	% Solids	82.2		%		1	SM2540 G Mod.	20-Jun-08	20-Jun-08	8061612	JB

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* Reportable Detection Limit BRL = Below Reporting Limit

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-7 10-12.5' SA80340-11	03-273-35E	Soil	17-Jun-08 00:00	19-Jun-08

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Analyst
Volatile Organic Compounds											
	VOC Extraction	Field extracted		N/A		1	VOC Soil Extraction	20-Jun-08	20-Jun-08	8061639	JB
Volatile Organic Compounds by SW846 8260B			VC10			Initial weight: 8.97 g					
Prepared by method SW846 5035A Soil (low level)											
71-43-2	Benzene	BRL		µg/kg dry	3.8	1	SW846 8260B	23-Jun-08	23-Jun-08	8061676	JLD
104-51-8	n-Butylbenzene	BRL		µg/kg dry	3.8	1	"	"	"	"	"
135-98-8	sec-Butylbenzene	BRL		µg/kg dry	3.8	1	"	"	"	"	"
98-06-6	tert-Butylbenzene	BRL		µg/kg dry	3.8	1	"	"	"	"	"
100-41-4	Ethylbenzene	BRL		µg/kg dry	3.8	1	"	"	"	"	"
98-82-8	Isopropylbenzene	BRL		µg/kg dry	3.8	1	"	"	"	"	"
99-87-6	4-Isopropyltoluene	BRL		µg/kg dry	3.8	1	"	"	"	"	"
1634-04-4	Methyl tert-butyl ether	BRL		µg/kg dry	3.8	1	"	"	"	"	"
91-20-3	Naphthalene	BRL		µg/kg dry	3.8	1	"	"	"	"	"
103-65-1	n-Propylbenzene	BRL		µg/kg dry	3.8	1	"	"	"	"	"
108-88-3	Toluene	17.9		µg/kg dry	3.8	1	"	"	"	"	"
95-63-6	1,2,4-Trimethylbenzene	BRL		µg/kg dry	3.8	1	"	"	"	"	"
108-67-8	1,3,5-Trimethylbenzene	BRL		µg/kg dry	3.8	1	"	"	"	"	"
179601-23-1	m,p-Xylene	BRL		µg/kg dry	7.7	1	"	"	"	"	"
95-47-6	o-Xylene	BRL		µg/kg dry	3.8	1	"	"	"	"	"
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*101*		*70-130 %*			"	"	"	"	"
2037-26-5	*Toluene-d8*	*102*		*70-130 %*			"	"	"	"	"
17060-07-0	*1,2-Dichloroethane-d4*	*120*		*70-130 %*			"	"	"	"	"
1868-53-7	*Dibromofluoromethane*	*103*		*70-130 %*			"	"	"	"	"
Extractable Petroleum Hydrocarbons											
Extractable Total Petroleum Hydrocarbons											
Prepared by method SW846 3550B											
8006-61-9	Gasoline	BRL		mg/kg dry	29.6	1	+CT ETPH	23-Jun-08	24-Jun-08	8061742	SHM
68476-30-2	Fuel Oil #2	BRL		mg/kg dry	29.6	1	"	"	"	"	"
68476-31-3	Fuel Oil #4	BRL		mg/kg dry	29.6	1	"	"	"	"	"
68553-00-4	Fuel Oil #6	BRL		mg/kg dry	29.6	1	"	"	"	"	"
M09800000	Motor Oil	BRL		mg/kg dry	29.6	1	"	"	"	"	"
J00100000	Aviation Fuel	BRL		mg/kg dry	29.6	1	"	"	"	"	"
	Unidentified	171		mg/kg dry	29.6	1	"	"	"	"	"
	Other Oil	Calculated as		mg/kg dry	29.6	1	"	"	"	"	"
	Total Petroleum Hydrocarbons	171		mg/kg dry	29.6	1	"	"	"	"	"
	C9-C36 Aliphatic Hydrocarbons	171		mg/kg dry	29.6	1	"	"	"	"	"
Surrogate recoveries:											
3386-33-2	*1-Chlorooctadecane*	*79*		*50-150 %*			"	"	"	"	"
General Chemistry Parameters											
	% Solids	88.2		%		1	SM2540 G Mod.	20-Jun-08	20-Jun-08	8061612	JB

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* Reportable Detection Limit BRL = Below Reporting Limit

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-3 7.5-10' SA80340-12	03-273-35E	Soil	17-Jun-08 00:00	19-Jun-08

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Analyst
Volatile Organic Compounds											
	VOC Extraction	Field extracted		N/A		1	VOC Soil Extraction	20-Jun-08	20-Jun-08	8061639	JB
Volatile Organic Compounds by SW846 8260B											
Prepared by method SW846 5035A Soil (low level)					Initial weight: 5.38 g						
71-43-2	Benzene	BRL		µg/kg dry	5.2	1	SW846 8260B	23-Jun-08	23-Jun-08	8061676	JLD
104-51-8	n-Butylbenzene	BRL		µg/kg dry	5.2	1	"	"	"	"	"
135-98-8	sec-Butylbenzene	BRL		µg/kg dry	5.2	1	"	"	"	"	"
98-06-6	tert-Butylbenzene	BRL		µg/kg dry	5.2	1	"	"	"	"	"
100-41-4	Ethylbenzene	BRL		µg/kg dry	5.2	1	"	"	"	"	"
98-82-8	Isopropylbenzene	BRL		µg/kg dry	5.2	1	"	"	"	"	"
99-87-6	4-Isopropyltoluene	BRL		µg/kg dry	5.2	1	"	"	"	"	"
1634-04-4	Methyl tert-butyl ether	BRL		µg/kg dry	5.2	1	"	"	"	"	"
91-20-3	Naphthalene	BRL		µg/kg dry	5.2	1	"	"	"	"	"
103-65-1	n-Propylbenzene	BRL		µg/kg dry	5.2	1	"	"	"	"	"
108-88-3	Toluene	5.6		µg/kg dry	5.2	1	"	"	"	"	"
95-63-6	1,2,4-Trimethylbenzene	BRL		µg/kg dry	5.2	1	"	"	"	"	"
108-67-8	1,3,5-Trimethylbenzene	BRL		µg/kg dry	5.2	1	"	"	"	"	"
179601-23-1	m,p-Xylene	BRL		µg/kg dry	10.4	1	"	"	"	"	"
95-47-6	o-Xylene	BRL		µg/kg dry	5.2	1	"	"	"	"	"
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*98*		*70-130 %*			"	"	"	"	"
2037-26-5	*Toluene-d8*	*102*		*70-130 %*			"	"	"	"	"
17060-07-0	*1,2-Dichloroethane-d4*	*124*		*70-130 %*			"	"	"	"	"
1868-53-7	*Dibromofluoromethane*	*102*		*70-130 %*			"	"	"	"	"
Extractable Petroleum Hydrocarbons											
Extractable Total Petroleum Hydrocarbons											
Prepared by method SW846 3550B											
8006-61-9	Gasoline	BRL		mg/kg dry	27.3	1	+CT ETPH	23-Jun-08	24-Jun-08	8061742	SHM
68476-30-2	Fuel Oil #2	BRL		mg/kg dry	27.3	1	"	"	"	"	"
68476-31-3	Fuel Oil #4	BRL		mg/kg dry	27.3	1	"	"	"	"	"
68553-00-4	Fuel Oil #6	BRL		mg/kg dry	27.3	1	"	"	"	"	"
M09800000	Motor Oil	BRL		mg/kg dry	27.3	1	"	"	"	"	"
J00100000	Aviation Fuel	BRL		mg/kg dry	27.3	1	"	"	"	"	"
	Unidentified	BRL		mg/kg dry	27.3	1	"	"	"	"	"
	Other Oil	BRL		mg/kg dry	27.3	1	"	"	"	"	"
	Total Petroleum Hydrocarbons	BRL		mg/kg dry	27.3	1	"	"	"	"	"
	C9-C36 Aliphatic Hydrocarbons	BRL		mg/kg dry	27.3	1	"	"	"	"	"
Surrogate recoveries:											
3386-33-2	*1-Chlorooctadecane*	*77*		*50-150 %*			"	"	"	"	"
General Chemistry Parameters											
	% Solids	94.4		%		1	SM2540 G Mod.	20-Jun-08	20-Jun-08	8061612	JB

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* Reportable Detection Limit BRL = Below Reporting Limit

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-3 10-12.5' SA80340-13	03-273-35E	Soil	17-Jun-08 00:00	19-Jun-08

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*
Volatile Organic Compounds											
	VOC Extraction	Field extracted		N/A		1	VOC Soil Extraction	20-Jun-08	20-Jun-08	8061639	JB
Volatile Organic Compounds by SW846 8260B			VC10								
Prepared by method SW846 5030 Soil (high level)					Initial weight: 10.98 g						
71-43-2	Benzene	519		µg/kg dry	97.2	50	SW846 8260B	23-Jun-08	23-Jun-08	8061702	ADU
104-51-8	n-Butylbenzene	BRL		µg/kg dry	97.2	50	"	"	"	"	"
135-98-8	sec-Butylbenzene	BRL		µg/kg dry	97.2	50	"	"	"	"	"
98-06-6	tert-Butylbenzene	BRL		µg/kg dry	97.2	50	"	"	"	"	"
100-41-4	Ethylbenzene	433		µg/kg dry	97.2	50	"	"	"	"	"
98-82-8	Isopropylbenzene	BRL		µg/kg dry	97.2	50	"	"	"	"	"
99-87-6	4-Isopropyltoluene	BRL		µg/kg dry	97.2	50	"	"	"	"	"
1634-04-4	Methyl tert-butyl ether	BRL		µg/kg dry	97.2	50	"	"	"	"	"
91-20-3	Naphthalene	312		µg/kg dry	97.2	50	"	"	"	"	"
103-65-1	n-Propylbenzene	253		µg/kg dry	97.2	50	"	"	"	"	"
108-88-3	Toluene	1,210		µg/kg dry	97.2	50	"	"	"	"	"
95-63-6	1,2,4-Trimethylbenzene	996		µg/kg dry	97.2	50	"	"	"	"	"
108-67-8	1,3,5-Trimethylbenzene	412		µg/kg dry	97.2	50	"	"	"	"	"
179601-23-1	m,p-Xylene	1,470		µg/kg dry	194	50	"	"	"	"	"
95-47-6	o-Xylene	860		µg/kg dry	97.2	50	"	"	"	"	"
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*109*		*70-130 %*			"	"	"	"	"
2037-26-5	*Toluene-d8*	*99*		*70-130 %*			"	"	"	"	"
17060-07-0	*1,2-Dichloroethane-d4*	*95*		*70-130 %*			"	"	"	"	"
1868-53-7	*Dibromofluoromethane*	*97*		*70-130 %*			"	"	"	"	"
Extractable Petroleum Hydrocarbons											
Extractable Total Petroleum Hydrocarbons											
Prepared by method SW846 3550B											
8006-61-9	Gasoline	BRL		mg/kg dry	47.2	1	+CT ETPH	23-Jun-08	24-Jun-08	8061742	SHM
68476-30-2	Fuel Oil #2	BRL		mg/kg dry	47.2	1	"	"	"	"	"
68476-31-3	Fuel Oil #4	BRL		mg/kg dry	47.2	1	"	"	"	"	"
68553-00-4	Fuel Oil #6	BRL		mg/kg dry	47.2	1	"	"	"	"	"
M09800000	Motor Oil	BRL		mg/kg dry	47.2	1	"	"	"	"	"
J00100000	Aviation Fuel	BRL		mg/kg dry	47.2	1	"	"	"	"	"
	Unidentified	78.1		mg/kg dry	47.2	1	"	"	"	"	"
	Other Oil	Calculated as		mg/kg dry	47.2	1	"	"	"	"	"
	Total Petroleum Hydrocarbons	78.1		mg/kg dry	47.2	1	"	"	"	"	"
	C9-C36 Aliphatic Hydrocarbons	78.1		mg/kg dry	47.2	1	"	"	"	"	"
Surrogate recoveries:											
3386-33-2	*1-Chlorooctadecane*	*75*		*50-150 %*			"	"	"	"	"
Total Metals by EPA 6000/7000 Series Methods											
7439-92-1	Lead	BRL		mg/kg dry	1.68	1	SW846 6010B	20-Jun-08	23-Jun-08	8061594	TBG
General Chemistry Parameters											
	% Solids	80.4		%		1	SM2540 G Mod.	20-Jun-08	20-Jun-08	8061612	JB

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* Reportable Detection Limit BRL = Below Reporting Limit

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-3 15-17.5' SA80340-14	03-273-35E	Soil	17-Jun-08 00:00	19-Jun-08

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Analyst
Volatile Organic Compounds											
	VOC Extraction	Field extracted		N/A		1	VOC Soil Extraction	20-Jun-08	20-Jun-08	8061639	JB
Volatile Organic Compounds by SW846 8260B			VC10, VOC8								
Prepared by method SW846 5030 Soil (high level)					Initial weight: 10.89 g						
71-43-2	Benzene	BRL		µg/kg dry	94.5	50	SW846 8260B	25-Jun-08	25-Jun-08	8061959	ADU
104-51-8	n-Butylbenzene	BRL		µg/kg dry	94.5	50	"	"	"	"	"
135-98-8	sec-Butylbenzene	BRL		µg/kg dry	94.5	50	"	"	"	"	"
98-06-6	tert-Butylbenzene	BRL		µg/kg dry	94.5	50	"	"	"	"	"
100-41-4	Ethylbenzene	BRL		µg/kg dry	94.5	50	"	"	"	"	"
98-82-8	Isopropylbenzene	BRL		µg/kg dry	94.5	50	"	"	"	"	"
99-87-6	4-Isopropyltoluene	BRL		µg/kg dry	94.5	50	"	"	"	"	"
1634-04-4	Methyl tert-butyl ether	BRL		µg/kg dry	94.5	50	"	"	"	"	"
91-20-3	Naphthalene	BRL		µg/kg dry	94.5	50	"	"	"	"	"
103-65-1	n-Propylbenzene	BRL		µg/kg dry	94.5	50	"	"	"	"	"
108-88-3	Toluene	112		µg/kg dry	94.5	50	"	"	"	"	"
95-63-6	1,2,4-Trimethylbenzene	BRL		µg/kg dry	94.5	50	"	"	"	"	"
108-67-8	1,3,5-Trimethylbenzene	BRL		µg/kg dry	94.5	50	"	"	"	"	"
179601-23-1	m,p-Xylene	BRL		µg/kg dry	189	50	"	"	"	"	"
95-47-6	o-Xylene	BRL		µg/kg dry	94.5	50	"	"	"	"	"
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*106*		*70-130 %*			"	"	"	"	"
2037-26-5	*Toluene-d8*	*100*		*70-130 %*			"	"	"	"	"
17060-07-0	*1,2-Dichloroethane-d4*	*98*		*70-130 %*			"	"	"	"	"
1868-53-7	*Dibromofluoromethane*	*101*		*70-130 %*			"	"	"	"	"
Extractable Petroleum Hydrocarbons											
Extractable Total Petroleum Hydrocarbons											
Prepared by method SW846 3550B											
8006-61-9	Gasoline	BRL		mg/kg dry	32.0	1	+CT ETPH	23-Jun-08	24-Jun-08	8061742	SHM
68476-30-2	Fuel Oil #2	BRL		mg/kg dry	32.0	1	"	"	"	"	"
68476-31-3	Fuel Oil #4	BRL		mg/kg dry	32.0	1	"	"	"	"	"
68553-00-4	Fuel Oil #6	BRL		mg/kg dry	32.0	1	"	"	"	"	"
M09800000	Motor Oil	BRL		mg/kg dry	32.0	1	"	"	"	"	"
J00100000	Aviation Fuel	BRL		mg/kg dry	32.0	1	"	"	"	"	"
	Unidentified	BRL		mg/kg dry	32.0	1	"	"	"	"	"
	Other Oil	BRL		mg/kg dry	32.0	1	"	"	"	"	"
	Total Petroleum Hydrocarbons	BRL		mg/kg dry	32.0	1	"	"	"	"	"
	C9-C36 Aliphatic Hydrocarbons	BRL		mg/kg dry	32.0	1	"	"	"	"	"
Surrogate recoveries:											
3386-33-2	*1-Chlorooctadecane*	*69*		*50-150 %*			"	"	"	"	"
Total Metals by EPA 6000/7000 Series Methods											
7439-92-1	Lead	BRL		mg/kg dry	1.64	1	SW846 6010B	20-Jun-08	23-Jun-08	8061594	TBG
General Chemistry Parameters											
	% Solids	82.3		%		1	SM2540 G Mod.	20-Jun-08	20-Jun-08	8061612	JB

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* Reportable Detection Limit BRL = Below Reporting Limit

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-2 7.5-10' SA80340-15	03-273-35E	Soil	17-Jun-08 00:00	19-Jun-08

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Analyst
Volatile Organic Compounds											
	VOC Extraction	Field extracted		N/A		1	VOC Soil Extraction	20-Jun-08	20-Jun-08	8061639	JB
Volatile Organic Compounds by SW846 8260B											
Prepared by method SW846 5035A Soil (low level)					Initial weight: 4.14 g						
71-43-2	Benzene	BRL		µg/kg dry	6.5	1	SW846 8260B	24-Jun-08	24-Jun-08	8061815	JLD
104-51-8	n-Butylbenzene	BRL		µg/kg dry	6.5	1	"	"	"	"	"
135-98-8	sec-Butylbenzene	BRL		µg/kg dry	6.5	1	"	"	"	"	"
98-06-6	tert-Butylbenzene	BRL		µg/kg dry	6.5	1	"	"	"	"	"
100-41-4	Ethylbenzene	BRL		µg/kg dry	6.5	1	"	"	"	"	"
98-82-8	Isopropylbenzene	BRL		µg/kg dry	6.5	1	"	"	"	"	"
99-87-6	4-Isopropyltoluene	BRL		µg/kg dry	6.5	1	"	"	"	"	"
1634-04-4	Methyl tert-butyl ether	BRL		µg/kg dry	6.5	1	"	"	"	"	"
91-20-3	Naphthalene	BRL		µg/kg dry	6.5	1	"	"	"	"	"
103-65-1	n-Propylbenzene	BRL		µg/kg dry	6.5	1	"	"	"	"	"
108-88-3	Toluene	BRL		µg/kg dry	6.5	1	"	"	"	"	"
95-63-6	1,2,4-Trimethylbenzene	BRL		µg/kg dry	6.5	1	"	"	"	"	"
108-67-8	1,3,5-Trimethylbenzene	BRL		µg/kg dry	6.5	1	"	"	"	"	"
179601-23-1	m,p-Xylene	BRL		µg/kg dry	12.9	1	"	"	"	"	"
95-47-6	o-Xylene	BRL		µg/kg dry	6.5	1	"	"	"	"	"
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*102*		*70-130 %*			"	"	"	"	"
2037-26-5	*Toluene-d8*	*103*		*70-130 %*			"	"	"	"	"
17060-07-0	*1,2-Dichloroethane-d4*	*126*		*70-130 %*			"	"	"	"	"
1868-53-7	*Dibromofluoromethane*	*105*		*70-130 %*			"	"	"	"	"
Extractable Petroleum Hydrocarbons											
Extractable Total Petroleum Hydrocarbons											
Prepared by method SW846 3550B											
8006-61-9	Gasoline	BRL		mg/kg dry	26.6	1	+CT ETPH	23-Jun-08	24-Jun-08	8061742	SHM
68476-30-2	Fuel Oil #2	BRL		mg/kg dry	26.6	1	"	"	"	"	"
68476-31-3	Fuel Oil #4	BRL		mg/kg dry	26.6	1	"	"	"	"	"
68553-00-4	Fuel Oil #6	BRL		mg/kg dry	26.6	1	"	"	"	"	"
M098000000	Motor Oil	BRL		mg/kg dry	26.6	1	"	"	"	"	"
J00100000	Aviation Fuel	BRL		mg/kg dry	26.6	1	"	"	"	"	"
	Unidentified	BRL		mg/kg dry	26.6	1	"	"	"	"	"
	Other Oil	BRL		mg/kg dry	26.6	1	"	"	"	"	"
	Total Petroleum Hydrocarbons	BRL		mg/kg dry	26.6	1	"	"	"	"	"
	C9-C36 Aliphatic Hydrocarbons	BRL		mg/kg dry	26.6	1	"	"	"	"	"
Surrogate recoveries:											
3386-33-2	*1-Chlorooctadecane*	*81*		*50-150 %*			"	"	"	"	"
General Chemistry Parameters											
	% Solids	96.2		%		1	SM2540 G Mod.	20-Jun-08	20-Jun-08	8061612	JB

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* Reportable Detection Limit BRL = Below Reporting Limit

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-2 10-12.5' SA80340-16	03-273-35E	Soil	17-Jun-08 00:00	19-Jun-08

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Analyst
Volatile Organic Compounds											
	VOC Extraction	Field extracted		N/A		1	VOC Soil Extraction	20-Jun-08	20-Jun-08	8061639	JB
Volatile Organic Compounds by SW846 8260B						Initial weight: 17.83 g					
Prepared by method SW846 5030 Soil (high level)											
71-43-2	Benzene	11,400		µg/kg dry	1320	1000	SW846 8260B	23-Jun-08	23-Jun-08	8061702	ADU
104-51-8	n-Butylbenzene	17,300		µg/kg dry	1320	1000	"	"	"	"	"
135-98-8	sec-Butylbenzene	6,340		µg/kg dry	1320	1000	"	"	"	"	"
98-06-6	tert-Butylbenzene	BRL		µg/kg dry	1320	1000	"	"	"	"	"
100-41-4	Ethylbenzene	98,200		µg/kg dry	1320	1000	"	"	"	"	"
98-82-8	Isopropylbenzene	10,500		µg/kg dry	1320	1000	"	"	"	"	"
99-87-6	4-Isopropyltoluene	4,390		µg/kg dry	1320	1000	"	"	"	"	"
1634-04-4	Methyl tert-butyl ether	BRL		µg/kg dry	1320	1000	"	"	"	"	"
91-20-3	Naphthalene	48,500		µg/kg dry	1320	1000	"	"	"	"	"
103-65-1	n-Propylbenzene	34,100		µg/kg dry	1320	1000	"	"	"	"	"
108-88-3	Toluene	243,000		µg/kg dry	1320	1000	"	"	"	"	"
95-63-6	1,2,4-Trimethylbenzene	298,000	E	µg/kg dry	1320	1000	"	"	"	"	"
108-67-8	1,3,5-Trimethylbenzene	88,900		µg/kg dry	1320	1000	"	"	"	"	"
179601-23-1	m,p-Xylene	551,000	E	µg/kg dry	2650	1000	"	"	"	"	"
95-47-6	o-Xylene	209,000		µg/kg dry	1320	1000	"	"	"	"	"
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*106*		*70-130 %*			"	"	"	"	"
2037-26-5	*Toluene-d8*	*104*		*70-130 %*			"	"	"	"	"
17060-07-0	*1,2-Dichloroethane-d4*	*97*		*70-130 %*			"	"	"	"	"
1868-53-7	*Dibromofluoromethane*	*99*		*70-130 %*			"	"	"	"	"
Re-analysis of Volatile Organic Compounds by SW846 8260B											
71-43-2	Benzene	13,500		µg/kg dry	3310	2500	SW846 8260B	24-Jun-08	24-Jun-08	8061821	ADU
104-51-8	n-Butylbenzene	24,000		µg/kg dry	3310	2500	"	"	"	"	"
135-98-8	sec-Butylbenzene	10,900		µg/kg dry	3310	2500	"	"	"	"	"
98-06-6	tert-Butylbenzene	BRL		µg/kg dry	3310	2500	"	"	"	"	"
100-41-4	Ethylbenzene	119,000		µg/kg dry	3310	2500	"	"	"	"	"
98-82-8	Isopropylbenzene	12,900		µg/kg dry	3310	2500	"	"	"	"	"
99-87-6	4-Isopropyltoluene	13,900		µg/kg dry	3310	2500	"	"	"	"	"
1634-04-4	Methyl tert-butyl ether	BRL		µg/kg dry	3310	2500	"	"	"	"	"
91-20-3	Naphthalene	58,700		µg/kg dry	3310	2500	"	"	"	"	"
103-65-1	n-Propylbenzene	45,600		µg/kg dry	3310	2500	"	"	"	"	"
108-88-3	Toluene	287,000		µg/kg dry	3310	2500	"	"	"	"	"
95-63-6	1,2,4-Trimethylbenzene	362,000		µg/kg dry	3310	2500	"	"	"	"	"
108-67-8	1,3,5-Trimethylbenzene	111,000		µg/kg dry	3310	2500	"	"	"	"	"
179601-23-1	m,p-Xylene	664,000		µg/kg dry	6620	2500	"	"	"	"	"
95-47-6	o-Xylene	249,000		µg/kg dry	3310	2500	"	"	"	"	"
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*105*		*70-130 %*			"	"	"	"	"
2037-26-5	*Toluene-d8*	*102*		*70-130 %*			"	"	"	"	"
17060-07-0	*1,2-Dichloroethane-d4*	*93*		*70-130 %*			"	"	"	"	"
1868-53-7	*Dibromofluoromethane*	*97*		*70-130 %*			"	"	"	"	"
Extractable Petroleum Hydrocarbons											
Extractable Total Petroleum Hydrocarbons											
Prepared by method SW846 3550B											
8006-61-9	Gasoline	Calculated as		mg/kg dry	46.7	1	+CT ETPH	23-Jun-08	24-Jun-08	8061742	SHM
68476-30-2	Fuel Oil #2	Calculated as		mg/kg dry	46.7	1	"	"	"	"	"
68476-31-3	Fuel Oil #4	BRL		mg/kg dry	46.7	1	"	"	"	"	"
68553-00-4	Fuel Oil #6	BRL		mg/kg dry	46.7	1	"	"	"	"	"
M09800000	Motor Oil	BRL		mg/kg dry	46.7	1	"	"	"	"	"

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* Reportable Detection Limit BRL = Below Reporting Limit

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-2 10-12.5' SA80340-16	03-273-35E	Soil	17-Jun-08 00:00	19-Jun-08

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*
Extractable Petroleum Hydrocarbons											
Extractable Total Petroleum Hydrocarbons											
Prepared by method SW846 3550B											
J00100000	Aviation Fuel	BRL		mg/kg dry	46.7	1	+CT ETPH	23-Jun-08	24-Jun-08	8061742	SHM
	Unidentified	742		mg/kg dry	46.7	1	"	"	"	"	"
	Other Oil	Calculated as		mg/kg dry	46.7	1	"	"	"	"	"
	Total Petroleum Hydrocarbons	742		mg/kg dry	46.7	1	"	"	"	"	"
	C9-C36 Aliphatic Hydrocarbons	742		mg/kg dry	46.7	1	"	"	"	"	"
Surrogate recoveries:											
3386-33-2	*1-Chlorooctadecane*	*65*		*50-150 %*			"	"	"	"	"
Total Metals by EPA 6000/7000 Series Methods											
7439-92-1	Lead	1.68		mg/kg dry	1.68	1	SW846 6010B	20-Jun-08	23-Jun-08	8061594	TBG
General Chemistry Parameters											
	% Solids	79.2		%		1	SM2540 G Mod.	20-Jun-08	20-Jun-08	8061612	JB

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-1 5-7.5' SA80340-17	03-273-35E	Soil	17-Jun-08 00:00	19-Jun-08

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Analyst
Volatile Organic Compounds											
	VOC Extraction	Field extracted		N/A		1	VOC Soil Extraction	20-Jun-08	20-Jun-08	8061639	JB
Volatile Organic Compounds by SW846 8260B			VC10			Initial weight: 6.94 g					
Prepared by method SW846 5035A Soil (low level)											
71-43-2	Benzene	BRL		µg/kg dry	4.4	1	SW846 8260B	23-Jun-08	23-Jun-08	8061676	JLD
104-51-8	n-Butylbenzene	BRL		µg/kg dry	4.4	1	"	"	"	"	"
135-98-8	sec-Butylbenzene	BRL		µg/kg dry	4.4	1	"	"	"	"	"
98-06-6	tert-Butylbenzene	BRL		µg/kg dry	4.4	1	"	"	"	"	"
100-41-4	Ethylbenzene	BRL		µg/kg dry	4.4	1	"	"	"	"	"
98-82-8	Isopropylbenzene	BRL		µg/kg dry	4.4	1	"	"	"	"	"
99-87-6	4-Isopropyltoluene	BRL		µg/kg dry	4.4	1	"	"	"	"	"
1634-04-4	Methyl tert-butyl ether	BRL		µg/kg dry	4.4	1	"	"	"	"	"
91-20-3	Naphthalene	BRL		µg/kg dry	4.4	1	"	"	"	"	"
103-65-1	n-Propylbenzene	BRL		µg/kg dry	4.4	1	"	"	"	"	"
108-88-3	Toluene	BRL		µg/kg dry	4.4	1	"	"	"	"	"
95-63-6	1,2,4-Trimethylbenzene	BRL		µg/kg dry	4.4	1	"	"	"	"	"
108-67-8	1,3,5-Trimethylbenzene	BRL		µg/kg dry	4.4	1	"	"	"	"	"
179601-23-1	m,p-Xylene	BRL		µg/kg dry	8.8	1	"	"	"	"	"
95-47-6	o-Xylene	BRL		µg/kg dry	4.4	1	"	"	"	"	"
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*100*		*70-130 %*			"	"	"	"	"
2037-26-5	*Toluene-d8*	*102*		*70-130 %*			"	"	"	"	"
17060-07-0	*1,2-Dichloroethane-d4*	*121*		*70-130 %*			"	"	"	"	"
1868-53-7	*Dibromofluoromethane*	*106*		*70-130 %*			"	"	"	"	"
Extractable Petroleum Hydrocarbons											
Extractable Total Petroleum Hydrocarbons											
Prepared by method SW846 3550B											
8006-61-9	Gasoline	BRL		mg/kg dry	27.5	1	+CT ETPH	23-Jun-08	24-Jun-08	8061742	SHM
68476-30-2	Fuel Oil #2	BRL		mg/kg dry	27.5	1	"	"	"	"	"
68476-31-3	Fuel Oil #4	BRL		mg/kg dry	27.5	1	"	"	"	"	"
68553-00-4	Fuel Oil #6	BRL		mg/kg dry	27.5	1	"	"	"	"	"
M09800000	Motor Oil	BRL		mg/kg dry	27.5	1	"	"	"	"	"
J00100000	Aviation Fuel	BRL		mg/kg dry	27.5	1	"	"	"	"	"
	Unidentified	91.8		mg/kg dry	27.5	1	"	"	"	"	"
	Other Oil	Calculated as		mg/kg dry	27.5	1	"	"	"	"	"
	Total Petroleum Hydrocarbons	91.8		mg/kg dry	27.5	1	"	"	"	"	"
	C9-C36 Aliphatic Hydrocarbons	91.8		mg/kg dry	27.5	1	"	"	"	"	"
Surrogate recoveries:											
3386-33-2	*1-Chlorooctadecane*	*65*		*50-150 %*			"	"	"	"	"
General Chemistry Parameters											
	% Solids	91.4		%		1	SM2540 G Mod.	20-Jun-08	20-Jun-08	8061612	JB

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* Reportable Detection Limit BRL = Below Reporting Limit

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-1 10-12.5' SA80340-18	03-273-35E	Soil	17-Jun-08 00:00	19-Jun-08

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Analyst
Volatile Organic Compounds											
	VOC Extraction	Field extracted		N/A		1	VOC Soil Extraction	20-Jun-08	20-Jun-08	8061639	JB
Volatile Organic Compounds by SW846 8260B											
Prepared by method SW846 5030 Soil (high level)					Initial weight: 14.82 g						
71-43-2	Benzene	6,570		µg/kg dry	1340	1000	SW846 8260B	23-Jun-08	23-Jun-08	8061702	ADU
104-51-8	n-Butylbenzene	15,900		µg/kg dry	1340	1000	"	"	"	"	"
135-98-8	sec-Butylbenzene	6,060		µg/kg dry	1340	1000	"	"	"	"	"
98-06-6	tert-Butylbenzene	BRL		µg/kg dry	1340	1000	"	"	"	"	"
100-41-4	Ethylbenzene	62,100		µg/kg dry	1340	1000	"	"	"	"	"
98-82-8	Isopropylbenzene	8,850		µg/kg dry	1340	1000	"	"	"	"	"
99-87-6	4-Isopropyltoluene	4,590		µg/kg dry	1340	1000	"	"	"	"	"
1634-04-4	Methyl tert-butyl ether	BRL		µg/kg dry	1340	1000	"	"	"	"	"
91-20-3	Naphthalene	50,100		µg/kg dry	1340	1000	"	"	"	"	"
103-65-1	n-Propylbenzene	30,200		µg/kg dry	1340	1000	"	"	"	"	"
108-88-3	Toluene	63,000		µg/kg dry	1340	1000	"	"	"	"	"
95-63-6	1,2,4-Trimethylbenzene	310,000	E	µg/kg dry	1340	1000	"	"	"	"	"
108-67-8	1,3,5-Trimethylbenzene	91,300		µg/kg dry	1340	1000	"	"	"	"	"
179601-23-1	m,p-Xylene	484,000		µg/kg dry	2680	1000	"	"	"	"	"
95-47-6	o-Xylene	178,000		µg/kg dry	1340	1000	"	"	"	"	"
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*105*		*70-130 %*			"	"	"	"	"
2037-26-5	*Toluene-d8*	*105*		*70-130 %*			"	"	"	"	"
17060-07-0	*1,2-Dichloroethane-d4*	*97*		*70-130 %*			"	"	"	"	"
1868-53-7	*Dibromofluoromethane*	*97*		*70-130 %*			"	"	"	"	"
Re-analysis of Volatile Organic Compounds by SW846 8260B											
71-43-2	Benzene	8,770		µg/kg dry	3460	2500	SW846 8260B	24-Jun-08	24-Jun-08	8061821	ADU
104-51-8	n-Butylbenzene	23,900		µg/kg dry	3460	2500	"	"	"	"	"
135-98-8	sec-Butylbenzene	11,300		µg/kg dry	3460	2500	"	"	"	"	"
98-06-6	tert-Butylbenzene	BRL		µg/kg dry	3460	2500	"	"	"	"	"
100-41-4	Ethylbenzene	84,300		µg/kg dry	3460	2500	"	"	"	"	"
98-82-8	Isopropylbenzene	11,800		µg/kg dry	3460	2500	"	"	"	"	"
99-87-6	4-Isopropyltoluene	8,450		µg/kg dry	3460	2500	"	"	"	"	"
1634-04-4	Methyl tert-butyl ether	BRL		µg/kg dry	3460	2500	"	"	"	"	"
91-20-3	Naphthalene	63,800		µg/kg dry	3460	2500	"	"	"	"	"
103-65-1	n-Propylbenzene	43,700		µg/kg dry	3460	2500	"	"	"	"	"
108-88-3	Toluene	82,600		µg/kg dry	3460	2500	"	"	"	"	"
95-63-6	1,2,4-Trimethylbenzene	406,000		µg/kg dry	3460	2500	"	"	"	"	"
108-67-8	1,3,5-Trimethylbenzene	123,000		µg/kg dry	3460	2500	"	"	"	"	"
179601-23-1	m,p-Xylene	644,000		µg/kg dry	6930	2500	"	"	"	"	"
95-47-6	o-Xylene	236,000		µg/kg dry	3460	2500	"	"	"	"	"
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*103*		*70-130 %*			"	"	"	"	"
2037-26-5	*Toluene-d8*	*102*		*70-130 %*			"	"	"	"	"
17060-07-0	*1,2-Dichloroethane-d4*	*92*		*70-130 %*			"	"	"	"	"
1868-53-7	*Dibromofluoromethane*	*97*		*70-130 %*			"	"	"	"	"
Extractable Petroleum Hydrocarbons											
Extractable Total Petroleum Hydrocarbons											
Prepared by method SW846 3550B											
8006-61-9	Gasoline	Calculated as		mg/kg dry	43.6	1	+CT ETPH	23-Jun-08	24-Jun-08	8061742	SHM
68476-30-2	Fuel Oil #2	Calculated as		mg/kg dry	43.6	1	"	"	"	"	"
68476-31-3	Fuel Oil #4	BRL		mg/kg dry	43.6	1	"	"	"	"	"
68553-00-4	Fuel Oil #6	BRL		mg/kg dry	43.6	1	"	"	"	"	"
M09800000	Motor Oil	BRL		mg/kg dry	43.6	1	"	"	"	"	"

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Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-1 10-12.5' SA80340-18	03-273-35E	Soil	17-Jun-08 00:00	19-Jun-08

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Analyst
Extractable Petroleum Hydrocarbons											
Extractable Total Petroleum Hydrocarbons											
Prepared by method SW846 3550B											
J00100000	Aviation Fuel	BRL		mg/kg dry	43.6	1	+CT ETPH	23-Jun-08	24-Jun-08	8061742	SHM
	Unidentified	1,190		mg/kg dry	43.6	1	"	"	"	"	"
	Other Oil	Calculated as		mg/kg dry	43.6	1	"	"	"	"	"
	Total Petroleum Hydrocarbons	1,190		mg/kg dry	43.6	1	"	"	"	"	"
	C9-C36 Aliphatic Hydrocarbons	1,190		mg/kg dry	43.6	1	"	"	"	"	"
Surrogate recoveries:											
3386-33-2	*1-Chlorooctadecane*	*75*		*50-150 %*			"	"	"	"	"
Total Metals by EPA 6000/7000 Series Methods											
7439-92-1	Lead	3.18		mg/kg dry	1.56	1	SW846 6010B	20-Jun-08	23-Jun-08	8061594	TBG
General Chemistry Parameters											
	% Solids	85.9		%		1	SM2540 G Mod.	20-Jun-08	20-Jun-08	8061612	JB

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* Reportable Detection Limit BRL = Below Reporting Limit

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-1 15-17.5' SA80340-19	03-273-35E	Soil	17-Jun-08 00:00	19-Jun-08

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Analyst
Volatile Organic Compounds											
	VOC Extraction	Field extracted		N/A		1	VOC Soil Extraction	20-Jun-08	20-Jun-08	8061639	JB
Volatile Organic Compounds by SW846 8260B						Initial weight: 16.87 g					
Prepared by method SW846 5030 Soil (high level)											
71-43-2	Benzene	1,480		µg/kg dry	67.2	50	SW846 8260B	23-Jun-08	23-Jun-08	8061702	ADU
104-51-8	n-Butylbenzene	155		µg/kg dry	67.2	50	"	"	"	"	"
135-98-8	sec-Butylbenzene	BRL		µg/kg dry	67.2	50	"	"	"	"	"
98-06-6	tert-Butylbenzene	BRL		µg/kg dry	67.2	50	"	"	"	"	"
100-41-4	Ethylbenzene	991		µg/kg dry	67.2	50	"	"	"	"	"
98-82-8	Isopropylbenzene	72.5		µg/kg dry	67.2	50	"	"	"	"	"
99-87-6	4-Isopropyltoluene	BRL		µg/kg dry	67.2	50	"	"	"	"	"
1634-04-4	Methyl tert-butyl ether	BRL		µg/kg dry	67.2	50	"	"	"	"	"
91-20-3	Naphthalene	349		µg/kg dry	67.2	50	"	"	"	"	"
103-65-1	n-Propylbenzene	333		µg/kg dry	67.2	50	"	"	"	"	"
108-88-3	Toluene	3,720		µg/kg dry	67.2	50	"	"	"	"	"
95-63-6	1,2,4-Trimethylbenzene	1,690		µg/kg dry	67.2	50	"	"	"	"	"
108-67-8	1,3,5-Trimethylbenzene	569		µg/kg dry	67.2	50	"	"	"	"	"
179601-23-1	m,p-Xylene	4,240		µg/kg dry	134	50	"	"	"	"	"
95-47-6	o-Xylene	1,680		µg/kg dry	67.2	50	"	"	"	"	"
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*110*		*70-130 %*			"	"	"	"	"
2037-26-5	*Toluene-d8*	*100*		*70-130 %*			"	"	"	"	"
17060-07-0	*1,2-Dichloroethane-d4*	*95*		*70-130 %*			"	"	"	"	"
1868-53-7	*Dibromofluoromethane*	*97*		*70-130 %*			"	"	"	"	"
Extractable Petroleum Hydrocarbons											
Extractable Total Petroleum Hydrocarbons											
Prepared by method SW846 3550B											
8006-61-9	Gasoline	BRL		mg/kg dry	31.2	1	+CT ETPH	23-Jun-08	24-Jun-08	8061742	SHM
68476-30-2	Fuel Oil #2	BRL		mg/kg dry	31.2	1	"	"	"	"	"
68476-31-3	Fuel Oil #4	BRL		mg/kg dry	31.2	1	"	"	"	"	"
68553-00-4	Fuel Oil #6	BRL		mg/kg dry	31.2	1	"	"	"	"	"
M09800000	Motor Oil	BRL		mg/kg dry	31.2	1	"	"	"	"	"
J00100000	Aviation Fuel	BRL		mg/kg dry	31.2	1	"	"	"	"	"
	Unidentified	BRL		mg/kg dry	31.2	1	"	"	"	"	"
	Other Oil	BRL		mg/kg dry	31.2	1	"	"	"	"	"
	Total Petroleum Hydrocarbons	BRL		mg/kg dry	31.2	1	"	"	"	"	"
	C9-C36 Aliphatic Hydrocarbons	BRL		mg/kg dry	31.2	1	"	"	"	"	"
Surrogate recoveries:											
3386-33-2	*1-Chlorooctadecane*	*64*		*50-150 %*			"	"	"	"	"
Total Metals by EPA 6000/7000 Series Methods											
7439-92-1	Lead	2.11		mg/kg dry	1.74	1	SW846 6010B	20-Jun-08	23-Jun-08	8061594	TBG
General Chemistry Parameters											
	% Solids	80.6		%		1	SM2540 G Mod.	20-Jun-08	20-Jun-08	8061612	JB

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* Reportable Detection Limit BRL = Below Reporting Limit

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-1 17.5-20' SA80340-20	03-273-35E	Soil	17-Jun-08 00:00	19-Jun-08

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Analyst
Volatile Organic Compounds											
	VOC Extraction	Field extracted		N/A		1	VOC Soil Extraction	20-Jun-08	20-Jun-08	8061639	JB
Volatile Organic Compounds by SW846 8260B											
Prepared by method SW846 5035A Soil (low level)					Initial weight: 5.21 g						
71-43-2	Benzene	BRL		µg/kg dry	6.9	1	SW846 8260B	23-Jun-08	23-Jun-08	8061676	JLD
104-51-8	n-Butylbenzene	BRL		µg/kg dry	6.9	1	"	"	"	"	"
135-98-8	sec-Butylbenzene	BRL		µg/kg dry	6.9	1	"	"	"	"	"
98-06-6	tert-Butylbenzene	BRL		µg/kg dry	6.9	1	"	"	"	"	"
100-41-4	Ethylbenzene	BRL		µg/kg dry	6.9	1	"	"	"	"	"
98-82-8	Isopropylbenzene	BRL		µg/kg dry	6.9	1	"	"	"	"	"
99-87-6	4-Isopropyltoluene	BRL		µg/kg dry	6.9	1	"	"	"	"	"
1634-04-4	Methyl tert-butyl ether	BRL		µg/kg dry	6.9	1	"	"	"	"	"
91-20-3	Naphthalene	BRL		µg/kg dry	6.9	1	"	"	"	"	"
103-65-1	n-Propylbenzene	BRL		µg/kg dry	6.9	1	"	"	"	"	"
108-88-3	Toluene	BRL		µg/kg dry	6.9	1	"	"	"	"	"
95-63-6	1,2,4-Trimethylbenzene	BRL		µg/kg dry	6.9	1	"	"	"	"	"
108-67-8	1,3,5-Trimethylbenzene	BRL		µg/kg dry	6.9	1	"	"	"	"	"
179601-23-1	m,p-Xylene	BRL		µg/kg dry	13.8	1	"	"	"	"	"
95-47-6	o-Xylene	BRL		µg/kg dry	6.9	1	"	"	"	"	"
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*101*		*70-130 %*			"	"	"	"	"
2037-26-5	*Toluene-d8*	*102*		*70-130 %*			"	"	"	"	"
17060-07-0	*1,2-Dichloroethane-d4*	*119*		*70-130 %*			"	"	"	"	"
1868-53-7	*Dibromofluoromethane*	*103*		*70-130 %*			"	"	"	"	"
Extractable Petroleum Hydrocarbons											
Extractable Total Petroleum Hydrocarbons											
Prepared by method SW846 3550B											
8006-61-9	Gasoline	BRL		mg/kg dry	32.1	1	+CT ETPH	23-Jun-08	24-Jun-08	8061742	SHM
68476-30-2	Fuel Oil #2	BRL		mg/kg dry	32.1	1	"	"	"	"	"
68476-31-3	Fuel Oil #4	BRL		mg/kg dry	32.1	1	"	"	"	"	"
68553-00-4	Fuel Oil #6	BRL		mg/kg dry	32.1	1	"	"	"	"	"
M09800000	Motor Oil	BRL		mg/kg dry	32.1	1	"	"	"	"	"
J00100000	Aviation Fuel	BRL		mg/kg dry	32.1	1	"	"	"	"	"
	Unidentified	BRL		mg/kg dry	32.1	1	"	"	"	"	"
	Other Oil	BRL		mg/kg dry	32.1	1	"	"	"	"	"
	Total Petroleum Hydrocarbons	BRL		mg/kg dry	32.1	1	"	"	"	"	"
	C9-C36 Aliphatic Hydrocarbons	BRL		mg/kg dry	32.1	1	"	"	"	"	"
Surrogate recoveries:											
3386-33-2	*1-Chlorooctadecane*	*73*		*50-150 %*			"	"	"	"	"
General Chemistry Parameters											
	% Solids	82.4		%		1	SM2540 G Mod.	20-Jun-08	20-Jun-08	8061612	JB

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* Reportable Detection Limit BRL = Below Reporting Limit

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-10 10-12.5 SA80340-22	03-273-35E	Soil	17-Jun-08 00:00	19-Jun-08

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Analyst
Volatile Organic Compounds											
	VOC Extraction	Field extracted		N/A		1	VOC Soil Extraction	20-Jun-08	20-Jun-08	8061639	JB
Volatile Organic Compounds by SW846 8260B											
Prepared by method SW846 5030 Soil (high level)					Initial weight: 15.54 g						
71-43-2	Benzene	22,700		µg/kg dry	1220	1000	SW846 8260B	23-Jun-08	23-Jun-08	8061702	ADU
104-51-8	n-Butylbenzene	23,200		µg/kg dry	1220	1000	"	"	"	"	"
135-98-8	sec-Butylbenzene	7,790		µg/kg dry	1220	1000	"	"	"	"	"
98-06-6	tert-Butylbenzene	BRL		µg/kg dry	1220	1000	"	"	"	"	"
100-41-4	Ethylbenzene	225,000		µg/kg dry	1220	1000	"	"	"	"	"
98-82-8	Isopropylbenzene	17,900		µg/kg dry	1220	1000	"	"	"	"	"
99-87-6	4-Isopropyltoluene	5,230		µg/kg dry	1220	1000	"	"	"	"	"
1634-04-4	Methyl tert-butyl ether	BRL		µg/kg dry	1220	1000	"	"	"	"	"
91-20-3	Naphthalene	70,800		µg/kg dry	1220	1000	"	"	"	"	"
103-65-1	n-Propylbenzene	65,800		µg/kg dry	1220	1000	"	"	"	"	"
108-88-3	Toluene	449,000	E	µg/kg dry	1220	1000	"	"	"	"	"
95-63-6	1,2,4-Trimethylbenzene	417,000	E	µg/kg dry	1220	1000	"	"	"	"	"
108-67-8	1,3,5-Trimethylbenzene	123,000		µg/kg dry	1220	1000	"	"	"	"	"
179601-23-1	m,p-Xylene	889,000	E	µg/kg dry	2450	1000	"	"	"	"	"
95-47-6	o-Xylene	330,000	E	µg/kg dry	1220	1000	"	"	"	"	"
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*106*		*70-130 %*			"	"	"	"	"
2037-26-5	*Toluene-d8*	*103*		*70-130 %*			"	"	"	"	"
17060-07-0	*1,2-Dichloroethane-d4*	*95*		*70-130 %*			"	"	"	"	"
1868-53-7	*Dibromofluoromethane*	*97*		*70-130 %*			"	"	"	"	"
Re-analysis of Volatile Organic Compounds by SW846 8260B											
71-43-2	Benzene	24,100		µg/kg dry	6120	5000	SW846 8260B	25-Jun-08	25-Jun-08	8061959	ADU
104-51-8	n-Butylbenzene	29,300		µg/kg dry	6120	5000	"	"	"	"	"
135-98-8	sec-Butylbenzene	17,500		µg/kg dry	6120	5000	"	"	"	"	"
98-06-6	tert-Butylbenzene	BRL		µg/kg dry	6120	5000	"	"	"	"	"
100-41-4	Ethylbenzene	230,000		µg/kg dry	6120	5000	"	"	"	"	"
98-82-8	Isopropylbenzene	19,100		µg/kg dry	6120	5000	"	"	"	"	"
99-87-6	4-Isopropyltoluene	12,000		µg/kg dry	6120	5000	"	"	"	"	"
1634-04-4	Methyl tert-butyl ether	BRL		µg/kg dry	6120	5000	"	"	"	"	"
91-20-3	Naphthalene	75,100		µg/kg dry	6120	5000	"	"	"	"	"
103-65-1	n-Propylbenzene	77,000		µg/kg dry	6120	5000	"	"	"	"	"
108-88-3	Toluene	472,000		µg/kg dry	6120	5000	"	"	"	"	"
95-63-6	1,2,4-Trimethylbenzene	416,000		µg/kg dry	6120	5000	"	"	"	"	"
108-67-8	1,3,5-Trimethylbenzene	131,000		µg/kg dry	6120	5000	"	"	"	"	"
179601-23-1	m,p-Xylene	916,000		µg/kg dry	12200	5000	"	"	"	"	"
95-47-6	o-Xylene	333,000		µg/kg dry	6120	5000	"	"	"	"	"
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*106*		*70-130 %*			"	"	"	"	"
2037-26-5	*Toluene-d8*	*104*		*70-130 %*			"	"	"	"	"
17060-07-0	*1,2-Dichloroethane-d4*	*97*		*70-130 %*			"	"	"	"	"
1868-53-7	*Dibromofluoromethane*	*100*		*70-130 %*			"	"	"	"	"
Extractable Petroleum Hydrocarbons											
Extractable Total Petroleum Hydrocarbons											
Prepared by method SW846 3550B											
8006-61-9	Gasoline	Calculated as		mg/kg dry	43.4	1	+CT ETPH	23-Jun-08	24-Jun-08	8061742	SHM
68476-30-2	Fuel Oil #2	Calculated as		mg/kg dry	43.4	1	"	"	"	"	"
68476-31-3	Fuel Oil #4	BRL		mg/kg dry	43.4	1	"	"	"	"	"
68553-00-4	Fuel Oil #6	BRL		mg/kg dry	43.4	1	"	"	"	"	"
M09800000	Motor Oil	BRL		mg/kg dry	43.4	1	"	"	"	"	"

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Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-10 10-12.5 SA80340-22	03-273-35E	Soil	17-Jun-08 00:00	19-Jun-08

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*
Extractable Petroleum Hydrocarbons											
Extractable Total Petroleum Hydrocarbons											
Prepared by method SW846 3550B											
J00100000	Aviation Fuel	BRL		mg/kg dry	43.4	1	+CT ETPH	23-Jun-08	24-Jun-08	8061742	SHM
	Unidentified	3,420		mg/kg dry	43.4	1	"	"	"	"	"
	Other Oil	Calculated as		mg/kg dry	43.4	1	"	"	"	"	"
	Total Petroleum Hydrocarbons	3,420		mg/kg dry	43.4	1	"	"	"	"	"
	C9-C36 Aliphatic Hydrocarbons	3,420		mg/kg dry	43.4	1	"	"	"	"	"
Surrogate recoveries:											
3386-33-2	*1-Chlorooctadecane*	*79*		*50-150 %*			"	"	"	"	"
Total Metals by EPA 6000/7000 Series Methods											
7439-92-1	Lead	2.75		mg/kg dry	1.58	1	SW846 6010B	20-Jun-08	23-Jun-08	8061594	TBG
General Chemistry Parameters											
	% Solids	88.3		%		1	SM2540 G Mod.	20-Jun-08	20-Jun-08	8061636	JB

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-13 7.5-10' SA80340-23	03-273-35E	Soil	17-Jun-08 00:00	19-Jun-08

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Analyst
Volatile Organic Compounds											
	VOC Extraction	Field extracted		N/A		1	VOC Soil Extraction	20-Jun-08	20-Jun-08	8061639	JB
Volatile Organic Compounds by SW846 8260B						Initial weight: 5.43 g					
Prepared by method SW846 5035A Soil (low level)											
71-43-2	Benzene	BRL		µg/kg dry	5.5	1	SW846 8260B	23-Jun-08	23-Jun-08	8061676	JLD
104-51-8	n-Butylbenzene	BRL		µg/kg dry	5.5	1	"	"	"	"	"
135-98-8	sec-Butylbenzene	BRL		µg/kg dry	5.5	1	"	"	"	"	"
98-06-6	tert-Butylbenzene	BRL		µg/kg dry	5.5	1	"	"	"	"	"
100-41-4	Ethylbenzene	BRL		µg/kg dry	5.5	1	"	"	"	"	"
98-82-8	Isopropylbenzene	BRL		µg/kg dry	5.5	1	"	"	"	"	"
99-87-6	4-Isopropyltoluene	BRL		µg/kg dry	5.5	1	"	"	"	"	"
1634-04-4	Methyl tert-butyl ether	BRL		µg/kg dry	5.5	1	"	"	"	"	"
91-20-3	Naphthalene	BRL		µg/kg dry	5.5	1	"	"	"	"	"
103-65-1	n-Propylbenzene	BRL		µg/kg dry	5.5	1	"	"	"	"	"
108-88-3	Toluene	BRL		µg/kg dry	5.5	1	"	"	"	"	"
95-63-6	1,2,4-Trimethylbenzene	BRL		µg/kg dry	5.5	1	"	"	"	"	"
108-67-8	1,3,5-Trimethylbenzene	BRL		µg/kg dry	5.5	1	"	"	"	"	"
179601-23-1	m,p-Xylene	BRL		µg/kg dry	11.1	1	"	"	"	"	"
95-47-6	o-Xylene	BRL		µg/kg dry	5.5	1	"	"	"	"	"
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*102*		*70-130 %*			"	"	"	"	"
2037-26-5	*Toluene-d8*	*104*		*70-130 %*			"	"	"	"	"
17060-07-0	*1,2-Dichloroethane-d4*	*124*		*70-130 %*			"	"	"	"	"
1868-53-7	*Dibromofluoromethane*	*110*		*70-130 %*			"	"	"	"	"
Extractable Petroleum Hydrocarbons											
Extractable Total Petroleum Hydrocarbons											
Prepared by method SW846 3550B											
8006-61-9	Gasoline	BRL		mg/kg dry	28.5	1	+CT ETPH	23-Jun-08	24-Jun-08	8061742	SHM
68476-30-2	Fuel Oil #2	BRL		mg/kg dry	28.5	1	"	"	"	"	"
68476-31-3	Fuel Oil #4	BRL		mg/kg dry	28.5	1	"	"	"	"	"
68553-00-4	Fuel Oil #6	BRL		mg/kg dry	28.5	1	"	"	"	"	"
M09800000	Motor Oil	BRL		mg/kg dry	28.5	1	"	"	"	"	"
J00100000	Aviation Fuel	BRL		mg/kg dry	28.5	1	"	"	"	"	"
	Unidentified	BRL		mg/kg dry	28.5	1	"	"	"	"	"
	Other Oil	BRL		mg/kg dry	28.5	1	"	"	"	"	"
	Total Petroleum Hydrocarbons	BRL		mg/kg dry	28.5	1	"	"	"	"	"
	C9-C36 Aliphatic Hydrocarbons	BRL		mg/kg dry	28.5	1	"	"	"	"	"
Surrogate recoveries:											
3386-33-2	*1-Chlorooctadecane*	*78*		*50-150 %*			"	"	"	"	"
General Chemistry Parameters											
	% Solids	91.2		%		1	SM2540 G Mod.	20-Jun-08	20-Jun-08	8061636	JB

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-13 10-12.5 SA80340-24	03-273-35E	Soil	17-Jun-08 00:00	19-Jun-08

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Analyst
Volatile Organic Compounds											
	VOC Extraction	Field extracted		N/A		1	VOC Soil Extraction	20-Jun-08	20-Jun-08	8061639	JB
Volatile Organic Compounds by SW846 8260B			VC10			Initial weight: 23.6 g					
Prepared by method SW846 5030 Soil (high level)											
71-43-2	Benzene	2,890		µg/kg dry	945	1000	SW846 8260B	23-Jun-08	23-Jun-08	8061702	ADU
104-51-8	n-Butylbenzene	13,200		µg/kg dry	945	1000	"	"	"	"	"
135-98-8	sec-Butylbenzene	4,630		µg/kg dry	945	1000	"	"	"	"	"
98-06-6	tert-Butylbenzene	BRL		µg/kg dry	945	1000	"	"	"	"	"
100-41-4	Ethylbenzene	74,100		µg/kg dry	945	1000	"	"	"	"	"
98-82-8	Isopropylbenzene	7,330		µg/kg dry	945	1000	"	"	"	"	"
99-87-6	4-Isopropyltoluene	3,280		µg/kg dry	945	1000	"	"	"	"	"
1634-04-4	Methyl tert-butyl ether	BRL		µg/kg dry	945	1000	"	"	"	"	"
91-20-3	Naphthalene	30,700		µg/kg dry	945	1000	"	"	"	"	"
103-65-1	n-Propylbenzene	26,900		µg/kg dry	945	1000	"	"	"	"	"
108-88-3	Toluene	96,700		µg/kg dry	945	1000	"	"	"	"	"
95-63-6	1,2,4-Trimethylbenzene	203,000	E	µg/kg dry	945	1000	"	"	"	"	"
108-67-8	1,3,5-Trimethylbenzene	60,400		µg/kg dry	945	1000	"	"	"	"	"
179601-23-1	m,p-Xylene	339,000		µg/kg dry	1890	1000	"	"	"	"	"
95-47-6	o-Xylene	122,000		µg/kg dry	945	1000	"	"	"	"	"
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*105*		*70-130 %*			"	"	"	"	"
2037-26-5	*Toluene-d8*	*102*		*70-130 %*			"	"	"	"	"
17060-07-0	*1,2-Dichloroethane-d4*	*94*		*70-130 %*			"	"	"	"	"
1868-53-7	*Dibromofluoromethane*	*97*		*70-130 %*			"	"	"	"	"
Re-analysis of Volatile Organic Compounds by SW846 8260B											
71-43-2	Benzene	3,260		µg/kg dry	2360	2500	SW846 8260B	25-Jun-08	25-Jun-08	8061959	ADU
104-51-8	n-Butylbenzene	15,500		µg/kg dry	2360	2500	"	"	"	"	"
135-98-8	sec-Butylbenzene	7,180		µg/kg dry	2360	2500	"	"	"	"	"
98-06-6	tert-Butylbenzene	BRL		µg/kg dry	2360	2500	"	"	"	"	"
100-41-4	Ethylbenzene	78,100		µg/kg dry	2360	2500	"	"	"	"	"
98-82-8	Isopropylbenzene	7,820		µg/kg dry	2360	2500	"	"	"	"	"
99-87-6	4-Isopropyltoluene	5,320		µg/kg dry	2360	2500	"	"	"	"	"
1634-04-4	Methyl tert-butyl ether	BRL		µg/kg dry	2360	2500	"	"	"	"	"
91-20-3	Naphthalene	34,500		µg/kg dry	2360	2500	"	"	"	"	"
103-65-1	n-Propylbenzene	31,100		µg/kg dry	2360	2500	"	"	"	"	"
108-88-3	Toluene	103,000		µg/kg dry	2360	2500	"	"	"	"	"
95-63-6	1,2,4-Trimethylbenzene	211,000		µg/kg dry	2360	2500	"	"	"	"	"
108-67-8	1,3,5-Trimethylbenzene	65,300		µg/kg dry	2360	2500	"	"	"	"	"
179601-23-1	m,p-Xylene	359,000		µg/kg dry	4720	2500	"	"	"	"	"
95-47-6	o-Xylene	128,000		µg/kg dry	2360	2500	"	"	"	"	"
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*104*		*70-130 %*			"	"	"	"	"
2037-26-5	*Toluene-d8*	*103*		*70-130 %*			"	"	"	"	"
17060-07-0	*1,2-Dichloroethane-d4*	*96*		*70-130 %*			"	"	"	"	"
1868-53-7	*Dibromofluoromethane*	*98*		*70-130 %*			"	"	"	"	"
Extractable Petroleum Hydrocarbons											
Extractable Total Petroleum Hydrocarbons											
Prepared by method SW846 3550B											
8006-61-9	Gasoline	Calculated as		mg/kg dry	44.4	1	+CT ETPH	23-Jun-08	24-Jun-08	8061742	SHM
68476-30-2	Fuel Oil #2	Calculated as		mg/kg dry	44.4	1	"	"	"	"	"
68476-31-3	Fuel Oil #4	BRL		mg/kg dry	44.4	1	"	"	"	"	"
68553-00-4	Fuel Oil #6	BRL		mg/kg dry	44.4	1	"	"	"	"	"
M09800000	Motor Oil	BRL		mg/kg dry	44.4	1	"	"	"	"	"

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Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-13 10-12.5 SA80340-24	03-273-35E	Soil	17-Jun-08 00:00	19-Jun-08

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*
Extractable Petroleum Hydrocarbons											
Extractable Total Petroleum Hydrocarbons											
Prepared by method SW846 3550B											
J00100000	Aviation Fuel	BRL		mg/kg dry	44.4	1	+CT ETPH	23-Jun-08	24-Jun-08	8061742	SHM
	Unidentified	1,650		mg/kg dry	44.4	1	"	"	"	"	"
	Other Oil	Calculated as		mg/kg dry	44.4	1	"	"	"	"	"
	Total Petroleum Hydrocarbons	1,650		mg/kg dry	44.4	1	"	"	"	"	"
	C9-C36 Aliphatic Hydrocarbons	1,650		mg/kg dry	44.4	1	"	"	"	"	"
Surrogate recoveries:											
3386-33-2	*1-Chlorooctadecane*	*75*		*50-150 %*			"	"	"	"	"
Total Metals by EPA 6000/7000 Series Methods											
7439-92-1	Lead	2.52		mg/kg dry	1.71	1	SW846 6010B	20-Jun-08	23-Jun-08	8061594	TBG
General Chemistry Parameters											
	% Solids	84.1		%		1	SM2540 G Mod.	20-Jun-08	20-Jun-08	8061636	JB

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
Trip Blank SA80340-25	03-273-35E	Methanol	17-Jun-08 00:00	19-Jun-08

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*
Volatile Organic Compounds											
Volatile Organic Compounds by SW846 8260B											
Prepared by method SW846 5030 Soil (high level)											
71-43-2	Benzene	BRL		µg/kg wet	50.0	50	SW846 8260B	23-Jun-08	23-Jun-08	8061702	ADU
104-51-8	n-Butylbenzene	BRL		µg/kg wet	50.0	50	"	"	"	"	"
135-98-8	sec-Butylbenzene	BRL		µg/kg wet	50.0	50	"	"	"	"	"
98-06-6	tert-Butylbenzene	BRL		µg/kg wet	50.0	50	"	"	"	"	"
100-41-4	Ethylbenzene	BRL		µg/kg wet	50.0	50	"	"	"	"	"
98-82-8	Isopropylbenzene	BRL		µg/kg wet	50.0	50	"	"	"	"	"
99-87-6	4-Isopropyltoluene	BRL		µg/kg wet	50.0	50	"	"	"	"	"
1634-04-4	Methyl tert-butyl ether	BRL		µg/kg wet	50.0	50	"	"	"	"	"
91-20-3	Naphthalene	BRL		µg/kg wet	50.0	50	"	"	"	"	"
103-65-1	n-Propylbenzene	BRL		µg/kg wet	50.0	50	"	"	"	"	"
108-88-3	Toluene	BRL		µg/kg wet	50.0	50	"	"	"	"	"
95-63-6	1,2,4-Trimethylbenzene	BRL		µg/kg wet	50.0	50	"	"	"	"	"
108-67-8	1,3,5-Trimethylbenzene	BRL		µg/kg wet	50.0	50	"	"	"	"	"
179601-23-1	m,p-Xylene	BRL		µg/kg wet	100	50	"	"	"	"	"
95-47-6	o-Xylene	BRL		µg/kg wet	50.0	50	"	"	"	"	"
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*110*		*70-130 %*			"	"	"	"	"
2037-26-5	*Toluene-d8*	*99*		*70-130 %*			"	"	"	"	"
17060-07-0	*1,2-Dichloroethane-d4*	*94*		*70-130 %*			"	"	"	"	"
1868-53-7	*Dibromofluoromethane*	*97*		*70-130 %*			"	"	"	"	"

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8061676 - SW846 5035A Soil (low level)										
Blank (8061676-BLK1)										
Prepared & Analyzed: 23-Jun-08										
Benzene	BRL		µg/kg wet	5.0						
n-Butylbenzene	BRL		µg/kg wet	5.0						
sec-Butylbenzene	BRL		µg/kg wet	5.0						
tert-Butylbenzene	BRL		µg/kg wet	5.0						
Ethylbenzene	BRL		µg/kg wet	5.0						
Isopropylbenzene	BRL		µg/kg wet	5.0						
4-Isopropyltoluene	BRL		µg/kg wet	5.0						
Methyl tert-butyl ether	BRL		µg/kg wet	5.0						
Naphthalene	BRL		µg/kg wet	5.0						
n-Propylbenzene	BRL		µg/kg wet	5.0						
Toluene	BRL		µg/kg wet	5.0						
1,2,4-Trimethylbenzene	BRL		µg/kg wet	5.0						
1,3,5-Trimethylbenzene	BRL		µg/kg wet	5.0						
m,p-Xylene	BRL		µg/kg wet	10.0						
o-Xylene	BRL		µg/kg wet	5.0						
Chlorobenzene	BRL		µg/kg wet	5.0						
1,1-Dichloroethene	BRL		µg/kg wet	5.0						
Trichloroethene	BRL		µg/kg wet	5.0						
Surrogate: 4-Bromofluorobenzene	*49.1*		µg/kg wet		*50.0*		*98*	*70-130*		
Surrogate: Toluene-d8	*51.2*		µg/kg wet		*50.0*		*102*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*58.8*		µg/kg wet		*50.0*		*118*	*70-130*		
Surrogate: Dibromofluoromethane	*49.6*		µg/kg wet		*50.0*		*99*	*70-130*		
LCS (8061676-BS1)										
Prepared & Analyzed: 23-Jun-08										
Benzene	19.2		µg/kg wet		20.0		96	70-130		
n-Butylbenzene	18.3		µg/kg wet		20.0		91	70-130		
sec-Butylbenzene	20.6		µg/kg wet		20.0		103	70-130		
tert-Butylbenzene	21.3		µg/kg wet		20.0		107	70-130		
Ethylbenzene	20.2		µg/kg wet		20.0		101	70-130		
Isopropylbenzene	19.4		µg/kg wet		20.0		97	70-130		
4-Isopropyltoluene	19.6		µg/kg wet		20.0		98	70-130		
Methyl tert-butyl ether	18.0		µg/kg wet		20.0		90	70-130		
Naphthalene	17.0		µg/kg wet		20.0		85	70-130		
n-Propylbenzene	20.1		µg/kg wet		20.0		100	70-130		
Toluene	19.8		µg/kg wet		20.0		99	70-130		
1,2,4-Trimethylbenzene	20.7		µg/kg wet		20.0		103	70-130		
1,3,5-Trimethylbenzene	20.9		µg/kg wet		20.0		105	70-130		
m,p-Xylene	42.7		µg/kg wet		40.0		107	70-130		
o-Xylene	21.6		µg/kg wet		20.0		108	70-130		
Surrogate: 4-Bromofluorobenzene	*51.7*		µg/kg wet		*50.0*		*103*	*70-130*		
Surrogate: Toluene-d8	*51.4*		µg/kg wet		*50.0*		*103*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*51.1*		µg/kg wet		*50.0*		*102*	*70-130*		
Surrogate: Dibromofluoromethane	*50.9*		µg/kg wet		*50.0*		*102*	*70-130*		
LCS Dup (8061676-BSD1)										
Prepared & Analyzed: 23-Jun-08										
Benzene	19.6		µg/kg wet		20.0		98	70-130	2	25
n-Butylbenzene	18.7		µg/kg wet		20.0		94	70-130	2	25
sec-Butylbenzene	21.0		µg/kg wet		20.0		105	70-130	2	25
tert-Butylbenzene	21.4		µg/kg wet		20.0		107	70-130	0.1	25
Ethylbenzene	20.6		µg/kg wet		20.0		103	70-130	2	25

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8061676 - SW846 5035A Soil (low level)										
LCS Dup (8061676-BSD1)										
Prepared & Analyzed: 23-Jun-08										
Isopropylbenzene	19.8		µg/kg wet		20.0		99	70-130	2	25
4-Isopropyltoluene	20.3		µg/kg wet		20.0		101	70-130	3	25
Methyl tert-butyl ether	17.4		µg/kg wet		20.0		87	70-130	3	25
Naphthalene	16.0		µg/kg wet		20.0		80	70-130	6	25
n-Propylbenzene	20.3		µg/kg wet		20.0		102	70-130	1	25
Toluene	19.8		µg/kg wet		20.0		99	70-130	0.2	25
1,2,4-Trimethylbenzene	20.9		µg/kg wet		20.0		105	70-130	1	25
1,3,5-Trimethylbenzene	21.0		µg/kg wet		20.0		105	70-130	0.3	25
m,p-Xylene	42.9		µg/kg wet		40.0		107	70-130	0.5	25
o-Xylene	21.7		µg/kg wet		20.0		108	70-130	0.5	25
Surrogate: 4-Bromofluorobenzene	*51.2*		µg/kg wet		*50.0*		*102*	*70-130*		
Surrogate: Toluene-d8	*50.9*		µg/kg wet		*50.0*		*102*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*49.6*		µg/kg wet		*50.0*		*99*	*70-130*		
Surrogate: Dibromofluoromethane	*48.1*		µg/kg wet		*50.0*		*96*	*70-130*		
Matrix Spike (8061676-MS1) Source: SA80395-04										
Prepared & Analyzed: 23-Jun-08										
Benzene	11.4	QM7	µg/kg dry		20.0	BRL	57	70-130		
Toluene	12.7	QM7	µg/kg dry		20.0	BRL	64	70-130		
Chlorobenzene	14.7		µg/kg dry		20.0	0.0	73	70-130		
1,1-Dichloroethene	10.1	QM7	µg/kg dry		20.0	0.0	50	70-130		
Trichloroethene	12.1	QM7	µg/kg dry		20.0	0.0	60	70-130		
Surrogate: 4-Bromofluorobenzene	*53.1*		µg/kg dry		*50.0*		*106*	*70-130*		
Surrogate: Toluene-d8	*51.3*		µg/kg dry		*50.0*		*103*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*61.3*		µg/kg dry		*50.0*		*123*	*70-130*		
Surrogate: Dibromofluoromethane	*53.2*		µg/kg dry		*50.0*		*106*	*70-130*		
Matrix Spike Dup (8061676-MSD1) Source: SA80395-04										
Prepared & Analyzed: 23-Jun-08										
Benzene	12.8	QM7	µg/kg dry		20.0	BRL	64	70-130	12	30
Toluene	13.8	QM7	µg/kg dry		20.0	BRL	69	70-130	8	30
Chlorobenzene	16.3		µg/kg dry		20.0	0.0	82	70-130	11	30
1,1-Dichloroethene	11.6	QM7	µg/kg dry		20.0	0.0	58	70-130	13	30
Trichloroethene	13.3	QM7	µg/kg dry		20.0	0.0	67	70-130	10	30
Surrogate: 4-Bromofluorobenzene	*53.0*		µg/kg dry		*50.0*		*106*	*70-130*		
Surrogate: Toluene-d8	*50.4*		µg/kg dry		*50.0*		*101*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*63.3*		µg/kg dry		*50.0*		*127*	*70-130*		
Surrogate: Dibromofluoromethane	*53.4*		µg/kg dry		*50.0*		*107*	*70-130*		
Batch 8061702 - SW846 5030 Soil (high level)										
Blank (8061702-BLK1)										
Prepared & Analyzed: 23-Jun-08										
Benzene	BRL		µg/kg wet	1.0						
n-Butylbenzene	BRL		µg/kg wet	1.0						
sec-Butylbenzene	BRL		µg/kg wet	1.0						
tert-Butylbenzene	BRL		µg/kg wet	1.0						
Ethylbenzene	BRL		µg/kg wet	1.0						
Isopropylbenzene	BRL		µg/kg wet	1.0						
4-Isopropyltoluene	BRL		µg/kg wet	1.0						
Methyl tert-butyl ether	BRL		µg/kg wet	1.0						
Naphthalene	BRL		µg/kg wet	1.0						
n-Propylbenzene	BRL		µg/kg wet	1.0						
Toluene	BRL		µg/kg wet	1.0						

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8061702 - SW846 5030 Soil (high level)										
Blank (8061702-BLK1)										
Prepared & Analyzed: 23-Jun-08										
1,2,4-Trimethylbenzene	BRL		µg/kg wet	1.0						
1,3,5-Trimethylbenzene	BRL		µg/kg wet	1.0						
m,p-Xylene	BRL		µg/kg wet	2.0						
o-Xylene	BRL		µg/kg wet	1.0						
Chlorobenzene	BRL		µg/kg wet	1.0						
1,1-Dichloroethene	BRL		µg/kg wet	1.0						
Trichloroethene	BRL		µg/kg wet	1.0						
Surrogate: 4-Bromofluorobenzene	*30.0*		µg/kg wet		*30.0*		*100*	*70-130*		
Surrogate: Toluene-d8	*30.2*		µg/kg wet		*30.0*		*101*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*28.7*		µg/kg wet		*30.0*		*96*	*70-130*		
Surrogate: Dibromofluoromethane	*29.8*		µg/kg wet		*30.0*		*99*	*70-130*		
LCS (8061702-BS1)										
Prepared & Analyzed: 23-Jun-08										
Benzene	20.9		µg/kg wet		20.0		104	70-130		
n-Butylbenzene	18.8		µg/kg wet		20.0		94	70-130		
sec-Butylbenzene	20.7		µg/kg wet		20.0		104	70-130		
tert-Butylbenzene	21.1		µg/kg wet		20.0		106	70-130		
Ethylbenzene	22.7		µg/kg wet		20.0		114	70-130		
Isopropylbenzene	21.0		µg/kg wet		20.0		105	70-130		
4-Isopropyltoluene	20.1		µg/kg wet		20.0		101	70-130		
Methyl tert-butyl ether	21.4		µg/kg wet		20.0		107	70-130		
Naphthalene	18.2		µg/kg wet		20.0		91	70-130		
n-Propylbenzene	20.4		µg/kg wet		20.0		102	70-130		
Toluene	19.6		µg/kg wet		20.0		98	70-130		
1,2,4-Trimethylbenzene	20.6		µg/kg wet		20.0		103	70-130		
1,3,5-Trimethylbenzene	20.7		µg/kg wet		20.0		104	70-130		
m,p-Xylene	44.9		µg/kg wet		40.0		112	70-130		
o-Xylene	23.0		µg/kg wet		20.0		115	70-130		
Surrogate: 4-Bromofluorobenzene	*31.0*		µg/kg wet		*30.0*		*103*	*70-130*		
Surrogate: Toluene-d8	*29.7*		µg/kg wet		*30.0*		*99*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*28.5*		µg/kg wet		*30.0*		*95*	*70-130*		
Surrogate: Dibromofluoromethane	*29.6*		µg/kg wet		*30.0*		*98*	*70-130*		
LCS Dup (8061702-BSD1)										
Prepared & Analyzed: 23-Jun-08										
Benzene	20.7		µg/kg wet		20.0		104	70-130	0.8	25
n-Butylbenzene	18.5		µg/kg wet		20.0		92	70-130	2	25
sec-Butylbenzene	20.4		µg/kg wet		20.0		102	70-130	1	25
tert-Butylbenzene	20.9		µg/kg wet		20.0		105	70-130	0.9	25
Ethylbenzene	22.4		µg/kg wet		20.0		112	70-130	2	25
Isopropylbenzene	20.9		µg/kg wet		20.0		104	70-130	0.5	25
4-Isopropyltoluene	20.0		µg/kg wet		20.0		100	70-130	0.7	25
Methyl tert-butyl ether	21.8		µg/kg wet		20.0		109	70-130	2	25
Naphthalene	19.0		µg/kg wet		20.0		95	70-130	4	25
n-Propylbenzene	19.9		µg/kg wet		20.0		100	70-130	2	25
Toluene	19.7		µg/kg wet		20.0		99	70-130	0.9	25
1,2,4-Trimethylbenzene	20.7		µg/kg wet		20.0		103	70-130	0.6	25
1,3,5-Trimethylbenzene	20.6		µg/kg wet		20.0		103	70-130	0.9	25
m,p-Xylene	44.9		µg/kg wet		40.0		112	70-130	0	25
o-Xylene	22.8		µg/kg wet		20.0		114	70-130	1	25
Surrogate: 4-Bromofluorobenzene	*31.2*		µg/kg wet		*30.0*		*104*	*70-130*		

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* Reportable Detection Limit BRL = Below Reporting Limit

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8061702 - SW846 5030 Soil (high level)										
LCS Dup (8061702-BSD1)										
Prepared & Analyzed: 23-Jun-08										
Surrogate: Toluene-d8	*29.9*		µg/kg wet		*30.0*		*100*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*28.8*		µg/kg wet		*30.0*		*96*	*70-130*		
Surrogate: Dibromofluoromethane	*29.6*		µg/kg wet		*30.0*		*98*	*70-130*		
Matrix Spike (8061702-MS1) **Source: SA80363-03**										
Prepared & Analyzed: 23-Jun-08										
Benzene	16.0		µg/kg dry		20.0	BRL	80	70-130		
Toluene	17.9		µg/kg dry		20.0	BRL	89	70-130		
Chlorobenzene	20.0		µg/kg dry		20.0	0.0	100	70-130		
1,1-Dichloroethene	13.9		µg/kg dry		20.0	0.0	70	70-130		
Trichloroethene	16.6		µg/kg dry		20.0	0.0	83	70-130		
Surrogate: 4-Bromofluorobenzene	*33.6*		µg/kg dry		*30.0*		*112*	*70-130*		
Surrogate: Toluene-d8	*32.3*		µg/kg dry		*30.0*		*108*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*27.6*		µg/kg dry		*30.0*		*92*	*70-130*		
Surrogate: Dibromofluoromethane	*28.6*		µg/kg dry		*30.0*		*95*	*70-130*		
Matrix Spike Dup (8061702-MSD1) **Source: SA80363-03**										
Prepared & Analyzed: 23-Jun-08										
Benzene	16.0		µg/kg dry		20.0	BRL	80	70-130	0.4	30
Toluene	17.7		µg/kg dry		20.0	BRL	89	70-130	0.7	30
Chlorobenzene	20.0		µg/kg dry		20.0	0.0	100	70-130	0.1	30
1,1-Dichloroethene	13.4	QM7	µg/kg dry		20.0	0.0	67	70-130	4	30
Trichloroethene	16.2		µg/kg dry		20.0	0.0	81	70-130	2	30
Surrogate: 4-Bromofluorobenzene	*33.0*		µg/kg dry		*30.0*		*110*	*70-130*		
Surrogate: Toluene-d8	*32.4*		µg/kg dry		*30.0*		*108*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*28.1*		µg/kg dry		*30.0*		*94*	*70-130*		
Surrogate: Dibromofluoromethane	*28.8*		µg/kg dry		*30.0*		*96*	*70-130*		
Batch 8061815 - SW846 5035A Soil (low level)										
Blank (8061815-BLK1)										
Prepared & Analyzed: 24-Jun-08										
Benzene	BRL		µg/kg wet	5.0						
n-Butylbenzene	BRL		µg/kg wet	5.0						
sec-Butylbenzene	BRL		µg/kg wet	5.0						
tert-Butylbenzene	BRL		µg/kg wet	5.0						
Ethylbenzene	BRL		µg/kg wet	5.0						
Isopropylbenzene	BRL		µg/kg wet	5.0						
4-Isopropyltoluene	BRL		µg/kg wet	5.0						
Methyl tert-butyl ether	BRL		µg/kg wet	5.0						
Naphthalene	BRL		µg/kg wet	5.0						
n-Propylbenzene	BRL		µg/kg wet	5.0						
Toluene	BRL		µg/kg wet	5.0						
1,2,4-Trimethylbenzene	BRL		µg/kg wet	5.0						
1,3,5-Trimethylbenzene	BRL		µg/kg wet	5.0						
m,p-Xylene	BRL		µg/kg wet	10.0						
o-Xylene	BRL		µg/kg wet	5.0						
Chlorobenzene	BRL		µg/kg wet	5.0						
1,1-Dichloroethene	BRL		µg/kg wet	5.0						
Trichloroethene	BRL		µg/kg wet	5.0						
Surrogate: 4-Bromofluorobenzene	*49.8*		µg/kg wet		*50.0*		*100*	*70-130*		
Surrogate: Toluene-d8	*51.9*		µg/kg wet		*50.0*		*104*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*58.6*		µg/kg wet		*50.0*		*117*	*70-130*		
Surrogate: Dibromofluoromethane	*55.8*		µg/kg wet		*50.0*		*112*	*70-130*		

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8061815 - SW846 5035A Soil (low level)										
LCS (8061815-BS1)										
Prepared & Analyzed: 24-Jun-08										
Benzene	19.9		µg/kg wet		20.0		99	70-130		
n-Butylbenzene	18.3		µg/kg wet		20.0		92	70-130		
sec-Butylbenzene	21.2		µg/kg wet		20.0		106	70-130		
tert-Butylbenzene	21.6		µg/kg wet		20.0		108	70-130		
Ethylbenzene	20.8		µg/kg wet		20.0		104	70-130		
Isopropylbenzene	19.7		µg/kg wet		20.0		99	70-130		
4-Isopropyltoluene	20.0		µg/kg wet		20.0		100	70-130		
Methyl tert-butyl ether	18.1		µg/kg wet		20.0		91	70-130		
Naphthalene	18.0		µg/kg wet		20.0		90	70-130		
n-Propylbenzene	20.2		µg/kg wet		20.0		101	70-130		
Toluene	20.2		µg/kg wet		20.0		101	70-130		
1,2,4-Trimethylbenzene	21.4		µg/kg wet		20.0		107	70-130		
1,3,5-Trimethylbenzene	21.3		µg/kg wet		20.0		106	70-130		
m,p-Xylene	44.1		µg/kg wet		40.0		110	70-130		
o-Xylene	22.1		µg/kg wet		20.0		111	70-130		
Surrogate: 4-Bromofluorobenzene	*51.8*		µg/kg wet		*50.0*		*104*	*70-130*		
Surrogate: Toluene-d8	*51.0*		µg/kg wet		*50.0*		*102*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*52.0*		µg/kg wet		*50.0*		*104*	*70-130*		
Surrogate: Dibromofluoromethane	*50.1*		µg/kg wet		*50.0*		*100*	*70-130*		
LCS Dup (8061815-BSD1)										
Prepared & Analyzed: 24-Jun-08										
Benzene	19.2		µg/kg wet		20.0		96	70-130	4	25
n-Butylbenzene	17.7		µg/kg wet		20.0		89	70-130	3	25
sec-Butylbenzene	20.8		µg/kg wet		20.0		104	70-130	2	25
tert-Butylbenzene	21.3		µg/kg wet		20.0		106	70-130	2	25
Ethylbenzene	20.5		µg/kg wet		20.0		103	70-130	1	25
Isopropylbenzene	19.7		µg/kg wet		20.0		99	70-130	0.1	25
4-Isopropyltoluene	19.5		µg/kg wet		20.0		97	70-130	3	25
Methyl tert-butyl ether	17.8		µg/kg wet		20.0		89	70-130	2	25
Naphthalene	16.8		µg/kg wet		20.0		84	70-130	7	25
n-Propylbenzene	20.0		µg/kg wet		20.0		100	70-130	1	25
Toluene	20.1		µg/kg wet		20.0		100	70-130	0.8	25
1,2,4-Trimethylbenzene	21.0		µg/kg wet		20.0		105	70-130	2	25
1,3,5-Trimethylbenzene	20.8		µg/kg wet		20.0		104	70-130	2	25
m,p-Xylene	43.3		µg/kg wet		40.0		108	70-130	2	25
o-Xylene	21.9		µg/kg wet		20.0		109	70-130	1	25
Surrogate: 4-Bromofluorobenzene	*51.8*		µg/kg wet		*50.0*		*104*	*70-130*		
Surrogate: Toluene-d8	*50.9*		µg/kg wet		*50.0*		*102*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*50.3*		µg/kg wet		*50.0*		*101*	*70-130*		
Surrogate: Dibromofluoromethane	*49.9*		µg/kg wet		*50.0*		*100*	*70-130*		
Batch 8061821 - SW846 5030 Soil (high level)										
Blank (8061821-BLK1)										
Prepared & Analyzed: 24-Jun-08										
Benzene	BRL		µg/kg wet	1.0						
n-Butylbenzene	BRL		µg/kg wet	1.0						
sec-Butylbenzene	BRL		µg/kg wet	1.0						
tert-Butylbenzene	BRL		µg/kg wet	1.0						
Ethylbenzene	BRL		µg/kg wet	1.0						
Isopropylbenzene	BRL		µg/kg wet	1.0						
4-Isopropyltoluene	BRL		µg/kg wet	1.0						

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8061821 - SW846 5030 Soil (high level)										
Blank (8061821-BLK1)										
Prepared & Analyzed: 24-Jun-08										
Methyl tert-butyl ether	BRL		µg/kg wet	1.0						
Naphthalene	BRL		µg/kg wet	1.0						
n-Propylbenzene	BRL		µg/kg wet	1.0						
Toluene	BRL		µg/kg wet	1.0						
1,2,4-Trimethylbenzene	BRL		µg/kg wet	1.0						
1,3,5-Trimethylbenzene	BRL		µg/kg wet	1.0						
m,p-Xylene	BRL		µg/kg wet	2.0						
o-Xylene	BRL		µg/kg wet	1.0						
Chlorobenzene	BRL		µg/kg wet	1.0						
1,1-Dichloroethene	BRL		µg/kg wet	1.0						
Trichloroethene	BRL		µg/kg wet	1.0						
Surrogate: 4-Bromofluorobenzene	*30.6*		µg/kg wet		*30.0*		*102*	*70-130*		
Surrogate: Toluene-d8	*30.3*		µg/kg wet		*30.0*		*101*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*27.7*		µg/kg wet		*30.0*		*92*	*70-130*		
Surrogate: Dibromofluoromethane	*29.3*		µg/kg wet		*30.0*		*98*	*70-130*		
LCS (8061821-BS1)										
Prepared & Analyzed: 24-Jun-08										
Benzene	22.5		µg/kg wet		20.0		112	70-130		
n-Butylbenzene	19.6		µg/kg wet		20.0		98	70-130		
sec-Butylbenzene	22.1		µg/kg wet		20.0		111	70-130		
tert-Butylbenzene	23.2		µg/kg wet		20.0		116	70-130		
Ethylbenzene	24.6		µg/kg wet		20.0		123	70-130		
Isopropylbenzene	22.7		µg/kg wet		20.0		113	70-130		
4-Isopropyltoluene	21.5		µg/kg wet		20.0		108	70-130		
Methyl tert-butyl ether	23.3		µg/kg wet		20.0		116	70-130		
Naphthalene	21.4		µg/kg wet		20.0		107	70-130		
n-Propylbenzene	21.6		µg/kg wet		20.0		108	70-130		
Toluene	21.5		µg/kg wet		20.0		107	70-130		
1,2,4-Trimethylbenzene	22.4		µg/kg wet		20.0		112	70-130		
1,3,5-Trimethylbenzene	22.4		µg/kg wet		20.0		112	70-130		
m,p-Xylene	49.4		µg/kg wet		40.0		124	70-130		
o-Xylene	25.0		µg/kg wet		20.0		125	70-130		
Surrogate: 4-Bromofluorobenzene	*31.0*		µg/kg wet		*30.0*		*103*	*70-130*		
Surrogate: Toluene-d8	*30.0*		µg/kg wet		*30.0*		*100*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*28.0*		µg/kg wet		*30.0*		*93*	*70-130*		
Surrogate: Dibromofluoromethane	*29.6*		µg/kg wet		*30.0*		*99*	*70-130*		
LCS Dup (8061821-BSD1)										
Prepared & Analyzed: 24-Jun-08										
Benzene	22.1		µg/kg wet		20.0		111	70-130	2	25
n-Butylbenzene	19.2		µg/kg wet		20.0		96	70-130	3	25
sec-Butylbenzene	22.0		µg/kg wet		20.0		110	70-130	0.6	25
tert-Butylbenzene	22.8		µg/kg wet		20.0		114	70-130	1	25
Ethylbenzene	24.3		µg/kg wet		20.0		121	70-130	1	25
Isopropylbenzene	22.5		µg/kg wet		20.0		112	70-130	0.8	25
4-Isopropyltoluene	21.1		µg/kg wet		20.0		106	70-130	2	25
Methyl tert-butyl ether	23.6		µg/kg wet		20.0		118	70-130	1	25
Naphthalene	21.6		µg/kg wet		20.0		108	70-130	1	25
n-Propylbenzene	21.4		µg/kg wet		20.0		107	70-130	1	25
Toluene	21.2		µg/kg wet		20.0		106	70-130	1	25
1,2,4-Trimethylbenzene	22.2		µg/kg wet		20.0		111	70-130	0.9	25

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* Reportable Detection Limit BRL = Below Reporting Limit

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8061821 - SW846 5030 Soil (high level)										
LCS Dup (8061821-BSD1)										
Prepared & Analyzed: 24-Jun-08										
1,3,5-Trimethylbenzene	22.1		µg/kg wet		20.0		110	70-130	1	25
m,p-Xylene	49.0		µg/kg wet		40.0		122	70-130	0.8	25
o-Xylene	24.8		µg/kg wet		20.0		124	70-130	0.7	25
Surrogate: 4-Bromofluorobenzene	*31.2*		µg/kg wet		*30.0*		*104*	*70-130*		
Surrogate: Toluene-d8	*29.9*		µg/kg wet		*30.0*		*100*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*28.2*		µg/kg wet		*30.0*		*94*	*70-130*		
Surrogate: Dibromofluoromethane	*29.5*		µg/kg wet		*30.0*		*98*	*70-130*		
Matrix Spike (8061821-MS1) **Source: SA80449-01**										
Prepared & Analyzed: 24-Jun-08										
Benzene	14.2		µg/kg dry		20.0	BRL	71	70-130		
Toluene	14.6		µg/kg dry		20.0	BRL	73	70-130		
Chlorobenzene	18.5		µg/kg dry		20.0	0.0	93	70-130		
1,1-Dichloroethene	12.7	QM7	µg/kg dry		20.0	0.0	63	70-130		
Trichloroethene	15.2		µg/kg dry		20.0	0.0	76	70-130		
Surrogate: 4-Bromofluorobenzene	*33.4*		µg/kg dry		*30.0*		*111*	*70-130*		
Surrogate: Toluene-d8	*29.6*		µg/kg dry		*30.0*		*99*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*28.4*		µg/kg dry		*30.0*		*95*	*70-130*		
Surrogate: Dibromofluoromethane	*29.4*		µg/kg dry		*30.0*		*98*	*70-130*		
Matrix Spike Dup (8061821-MSD1) **Source: SA80449-01**										
Prepared & Analyzed: 24-Jun-08										
Benzene	15.2		µg/kg dry		20.0	BRL	76	70-130	7	30
Toluene	15.5		µg/kg dry		20.0	BRL	78	70-130	6	30
Chlorobenzene	19.6		µg/kg dry		20.0	0.0	98	70-130	5	30
1,1-Dichloroethene	13.5	QM7	µg/kg dry		20.0	0.0	68	70-130	6	30
Trichloroethene	15.9		µg/kg dry		20.0	0.0	80	70-130	4	30
Surrogate: 4-Bromofluorobenzene	*33.3*		µg/kg dry		*30.0*		*111*	*70-130*		
Surrogate: Toluene-d8	*29.9*		µg/kg dry		*30.0*		*100*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*28.6*		µg/kg dry		*30.0*		*95*	*70-130*		
Surrogate: Dibromofluoromethane	*29.9*		µg/kg dry		*30.0*		*100*	*70-130*		
Batch 8061959 - SW846 5030 Soil (high level)										
Blank (8061959-BLK1)										
Prepared & Analyzed: 25-Jun-08										
Benzene	BRL		µg/kg wet	1.0						
n-Butylbenzene	BRL		µg/kg wet	1.0						
sec-Butylbenzene	BRL		µg/kg wet	1.0						
tert-Butylbenzene	BRL		µg/kg wet	1.0						
Ethylbenzene	BRL		µg/kg wet	1.0						
Isopropylbenzene	BRL		µg/kg wet	1.0						
4-Isopropyltoluene	BRL		µg/kg wet	1.0						
Methyl tert-butyl ether	BRL		µg/kg wet	1.0						
Naphthalene	BRL		µg/kg wet	1.0						
n-Propylbenzene	BRL		µg/kg wet	1.0						
Toluene	BRL		µg/kg wet	1.0						
1,2,4-Trimethylbenzene	BRL		µg/kg wet	1.0						
1,3,5-Trimethylbenzene	BRL		µg/kg wet	1.0						
m,p-Xylene	BRL		µg/kg wet	2.0						
o-Xylene	BRL		µg/kg wet	1.0						
Chlorobenzene	BRL		µg/kg wet	1.0						
1,1-Dichloroethene	BRL		µg/kg wet	1.0						
Trichloroethene	BRL		µg/kg wet	1.0						

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8061959 - SW846 5030 Soil (high level)										
Blank (8061959-BLK1)										
Prepared & Analyzed: 25-Jun-08										
Surrogate: 4-Bromofluorobenzene	*30.2*		µg/kg wet		*30.0*		*101*	*70-130*		
Surrogate: Toluene-d8	*30.3*		µg/kg wet		*30.0*		*101*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*30.5*		µg/kg wet		*30.0*		*102*	*70-130*		
Surrogate: Dibromofluoromethane	*30.6*		µg/kg wet		*30.0*		*102*	*70-130*		
LCS (8061959-BS1)										
Prepared & Analyzed: 25-Jun-08										
Benzene	22.5		µg/kg wet		20.0		112	70-130		
n-Butylbenzene	20.5		µg/kg wet		20.0		103	70-130		
sec-Butylbenzene	22.7		µg/kg wet		20.0		114	70-130		
tert-Butylbenzene	23.2		µg/kg wet		20.0		116	70-130		
Ethylbenzene	24.7		µg/kg wet		20.0		124	70-130		
Isopropylbenzene	23.1		µg/kg wet		20.0		115	70-130		
4-Isopropyltoluene	21.6		µg/kg wet		20.0		108	70-130		
Methyl tert-butyl ether	24.4		µg/kg wet		20.0		122	70-130		
Naphthalene	22.5		µg/kg wet		20.0		113	70-130		
n-Propylbenzene	21.8		µg/kg wet		20.0		109	70-130		
Toluene	21.5		µg/kg wet		20.0		108	70-130		
1,2,4-Trimethylbenzene	22.4		µg/kg wet		20.0		112	70-130		
1,3,5-Trimethylbenzene	22.4		µg/kg wet		20.0		112	70-130		
m,p-Xylene	49.6		µg/kg wet		40.0		124	70-130		
o-Xylene	25.3		µg/kg wet		20.0		126	70-130		
Surrogate: 4-Bromofluorobenzene	*31.6*		µg/kg wet		*30.0*		*105*	*70-130*		
Surrogate: Toluene-d8	*29.9*		µg/kg wet		*30.0*		*100*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*29.4*		µg/kg wet		*30.0*		*98*	*70-130*		
Surrogate: Dibromofluoromethane	*29.8*		µg/kg wet		*30.0*		*99*	*70-130*		
LCS Dup (8061959-BSD1)										
Prepared & Analyzed: 25-Jun-08										
Benzene	22.6		µg/kg wet		20.0		113	70-130	0.6	25
n-Butylbenzene	20.6		µg/kg wet		20.0		103	70-130	0.3	25
sec-Butylbenzene	22.7		µg/kg wet		20.0		114	70-130	0.09	25
tert-Butylbenzene	23.2		µg/kg wet		20.0		116	70-130	0.2	25
Ethylbenzene	25.0		µg/kg wet		20.0		125	70-130	0.9	25
Isopropylbenzene	23.1		µg/kg wet		20.0		116	70-130	0.3	25
4-Isopropyltoluene	22.0		µg/kg wet		20.0		110	70-130	2	25
Methyl tert-butyl ether	23.6		µg/kg wet		20.0		118	70-130	3	25
Naphthalene	21.7		µg/kg wet		20.0		109	70-130	4	25
n-Propylbenzene	22.4		µg/kg wet		20.0		112	70-130	3	25
Toluene	21.6		µg/kg wet		20.0		108	70-130	0.3	25
1,2,4-Trimethylbenzene	22.7		µg/kg wet		20.0		114	70-130	2	25
1,3,5-Trimethylbenzene	22.7		µg/kg wet		20.0		114	70-130	1	25
m,p-Xylene	49.7		µg/kg wet		40.0		124	70-130	0.02	25
o-Xylene	25.4		µg/kg wet		20.0		127	70-130	0.7	25
Surrogate: 4-Bromofluorobenzene	*31.1*		µg/kg wet		*30.0*		*104*	*70-130*		
Surrogate: Toluene-d8	*30.0*		µg/kg wet		*30.0*		*100*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*28.6*		µg/kg wet		*30.0*		*96*	*70-130*		
Surrogate: Dibromofluoromethane	*29.7*		µg/kg wet		*30.0*		*99*	*70-130*		
Matrix Spike (8061959-MS1)	**Source: SA80340-14**									
Prepared & Analyzed: 25-Jun-08										
Benzene	24.2		µg/kg dry		20.0	1.0	116	70-130		
Toluene	24.8		µg/kg dry		20.0	1.3	117	70-130		

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8061959 - SW846 5030 Soil (high level)										
Matrix Spike (8061959-MS1)	**Source: SA80340-14**									
Prepared & Analyzed: 25-Jun-08										
Chlorobenzene	23.8		µg/kg dry		20.0	0.0	119	70-130		
1,1-Dichloroethene	25.3		µg/kg dry		20.0	0.0	126	70-130		
Trichloroethene	23.0		µg/kg dry		20.0	0.0	115	70-130		
Surrogate: 4-Bromofluorobenzene	*33.1*		µg/kg dry		*30.0*		*110*	*70-130*		
Surrogate: Toluene-d8	*29.7*		µg/kg dry		*30.0*		*99*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*27.9*		µg/kg dry		*30.0*		*93*	*70-130*		
Surrogate: Dibromofluoromethane	*29.6*		µg/kg dry		*30.0*		*99*	*70-130*		
Matrix Spike Dup (8061959-MSD1)	**Source: SA80340-14**									
Prepared & Analyzed: 25-Jun-08										
Benzene	24.4		µg/kg dry		20.0	1.0	117	70-130	0.7	30
Toluene	23.4		µg/kg dry		20.0	1.3	110	70-130	6	30
Chlorobenzene	23.4		µg/kg dry		20.0	0.0	117	70-130	2	30
1,1-Dichloroethene	27.3	QM7	µg/kg dry		20.0	0.0	136	70-130	8	30
Trichloroethene	24.2		µg/kg dry		20.0	0.0	121	70-130	5	30
Surrogate: 4-Bromofluorobenzene	*33.9*		µg/kg dry		*30.0*		*113*	*70-130*		
Surrogate: Toluene-d8	*30.1*		µg/kg dry		*30.0*		*100*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*28.4*		µg/kg dry		*30.0*		*95*	*70-130*		
Surrogate: Dibromofluoromethane	*29.7*		µg/kg dry		*30.0*		*99*	*70-130*		

Extractable Petroleum Hydrocarbons - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8061741 - SW846 3550B										
Blank (8061741-BLK1)										
Prepared: 24-Jun-08 Analyzed: 25-Jun-08										
Gasoline	BRL		mg/kg wet	13.3						
Fuel Oil #2	BRL		mg/kg wet	13.3						
Fuel Oil #4	BRL		mg/kg wet	13.3						
Fuel Oil #6	BRL		mg/kg wet	13.3						
Motor Oil	BRL		mg/kg wet	13.3						
Aviation Fuel	BRL		mg/kg wet	13.3						
Unidentified	BRL		mg/kg wet	13.3						
Other Oil	BRL		mg/kg wet	13.3						
Total Petroleum Hydrocarbons	BRL		mg/kg wet	13.3						
C9-C36 Aliphatic Hydrocarbons	BRL		mg/kg wet	13.3						
Surrogate: 1-Chlorooctadecane	*2.27*		mg/kg wet		*3.33*		*68*	*50-150*		
LCS (8061741-BS1)										
Prepared: 24-Jun-08 Analyzed: 25-Jun-08										
C9-C36 Aliphatic Hydrocarbons	64.5		mg/kg wet	13.3	93.3		69	60-120		
Surrogate: 1-Chlorooctadecane	*1.98*		mg/kg wet		*3.33*		*59*	*50-150*		
Duplicate (8061741-DUP1) Source: SA80372-21										
Prepared: 24-Jun-08 Analyzed: 25-Jun-08										
Gasoline	BRL		mg/kg dry	32.5		BRL				50
Fuel Oil #2	BRL		mg/kg dry	32.5		BRL				50
Fuel Oil #4	BRL		mg/kg dry	32.5		BRL				50
Fuel Oil #6	BRL		mg/kg dry	32.5		BRL				50
Motor Oil	BRL		mg/kg dry	32.5		BRL				50
Aviation Fuel	BRL		mg/kg dry	32.5		BRL				50
Unidentified	919		mg/kg dry	32.5		1020			11	50
Other Oil	Calculated as		mg/kg dry	32.5		BRL				50
Total Petroleum Hydrocarbons	919		mg/kg dry	32.5		1020			11	50
C9-C36 Aliphatic Hydrocarbons	919		mg/kg dry	32.5		1020			11	50
Surrogate: 1-Chlorooctadecane	*2.93*		mg/kg dry		*4.07*		*72*	*50-150*		
Matrix Spike (8061741-MS1) Source: SA80372-21										
Prepared: 24-Jun-08 Analyzed: 25-Jun-08										
C9-C36 Aliphatic Hydrocarbons	1010	QM2	mg/kg dry	16.8	118	1020	-15	50-150		
Surrogate: 1-Chlorooctadecane	*2.94*		mg/kg dry		*4.22*		*70*	*50-150*		
Matrix Spike Dup (8061741-MSD1) Source: SA80372-21										
Prepared: 24-Jun-08 Analyzed: 25-Jun-08										
C9-C36 Aliphatic Hydrocarbons	1010	QM2	mg/kg dry	16.8	118	1020	-11	50-150	NR	30
Surrogate: 1-Chlorooctadecane	*2.89*		mg/kg dry		*4.21*		*69*	*50-150*		
Batch 8061742 - SW846 3550B										
Blank (8061742-BLK1)										
Prepared: 23-Jun-08 Analyzed: 24-Jun-08										
Gasoline	BRL		mg/kg wet	13.3						
Fuel Oil #2	BRL		mg/kg wet	13.3						
Fuel Oil #4	BRL		mg/kg wet	13.3						
Fuel Oil #6	BRL		mg/kg wet	13.3						
Motor Oil	BRL		mg/kg wet	13.3						
Aviation Fuel	BRL		mg/kg wet	13.3						
Unidentified	BRL		mg/kg wet	13.3						
Other Oil	BRL		mg/kg wet	13.3						

Extractable Petroleum Hydrocarbons - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8061742 - SW846 3550B										
Blank (8061742-BLK1)										
Prepared: 23-Jun-08 Analyzed: 24-Jun-08										
Total Petroleum Hydrocarbons	BRL		mg/kg wet	13.3						
C9-C36 Aliphatic Hydrocarbons	BRL		mg/kg wet	13.3						
Surrogate: 1-Chlorooctadecane	*3.53*		mg/kg wet		*3.33*		*106*	*50-150*		
LCS (8061742-BS1)										
Prepared: 23-Jun-08 Analyzed: 24-Jun-08										
C9-C36 Aliphatic Hydrocarbons	71.4		mg/kg wet	13.3	93.3		77	60-120		
Surrogate: 1-Chlorooctadecane	*2.15*		mg/kg wet		*3.33*		*64*	*50-150*		
Duplicate (8061742-DUP1) Source: SA80340-15										
Prepared: 23-Jun-08 Analyzed: 24-Jun-08										
Gasoline	BRL		mg/kg dry	27.5		BRL				50
Fuel Oil #2	BRL		mg/kg dry	27.5		BRL				50
Fuel Oil #4	BRL		mg/kg dry	27.5		BRL				50
Fuel Oil #6	BRL		mg/kg dry	27.5		BRL				50
Motor Oil	BRL		mg/kg dry	27.5		BRL				50
Aviation Fuel	BRL		mg/kg dry	27.5		BRL				50
Unidentified	BRL		mg/kg dry	27.5		BRL				50
Other Oil	BRL		mg/kg dry	27.5		BRL				50
Total Petroleum Hydrocarbons	BRL		mg/kg dry	27.5		BRL				50
C9-C36 Aliphatic Hydrocarbons	BRL		mg/kg dry	27.5		BRL				50
Surrogate: 1-Chlorooctadecane	*2.11*		mg/kg dry		*3.45*		*61*	*50-150*		
Matrix Spike (8061742-MS1) Source: SA80340-15										
Prepared: 23-Jun-08 Analyzed: 24-Jun-08										
C9-C36 Aliphatic Hydrocarbons	70.6		mg/kg dry	13.5	94.9	BRL	74	50-150		
Surrogate: 1-Chlorooctadecane	*2.21*		mg/kg dry		*3.39*		*65*	*50-150*		
Matrix Spike Dup (8061742-MSD1) Source: SA80340-15										
Prepared: 23-Jun-08 Analyzed: 24-Jun-08										
C9-C36 Aliphatic Hydrocarbons	60.9		mg/kg dry	13.5	95.1	BRL	64	50-150	15	30
Surrogate: 1-Chlorooctadecane	*1.91*		mg/kg dry		*3.40*		*56*	*50-150*		

Total Metals by EPA 6000/7000 Series Methods - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8061594 - SW846 3050B										
Blank (8061594-BLK1)										
Prepared: 20-Jun-08 Analyzed: 23-Jun-08										
Lead	BRL		mg/kg wet	1.37						
Duplicate (8061594-DUP1) Source: SA80330-01										
Prepared: 20-Jun-08 Analyzed: 23-Jun-08										
Lead	137		mg/kg dry	1.62		159			15	20
Matrix Spike (8061594-MS1) Source: SA80330-01										
Prepared: 20-Jun-08 Analyzed: 23-Jun-08										
Lead	270		mg/kg dry	1.65	137	159	81	75-125		
Matrix Spike Dup (8061594-MSD1) Source: SA80330-01										
Prepared: 20-Jun-08 Analyzed: 23-Jun-08										
Lead	223	QM8	mg/kg dry	1.48	123	159	51	75-125	19	20
Post Spike (8061594-PS1) Source: SA80330-01										
Prepared: 20-Jun-08 Analyzed: 23-Jun-08										
Lead	279		mg/kg dry	1.41	117	159	102	80-120		
Reference (8061594-SRM1)										
Prepared: 20-Jun-08 Analyzed: 24-Jun-08										
Lead	32.2		mg/kg wet	1.50	37.0		87	77.5-122.4		
Reference (8061594-SRM2)										
Prepared: 20-Jun-08 Analyzed: 24-Jun-08										
Lead	33.9		mg/kg wet	1.50	37.6		90	77.5-122.4		

General Chemistry Parameters - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8061612 - General Preparation										
Duplicate (8061612-DUP1) Source: SA80340-01										
Prepared & Analyzed: 20-Jun-08										
% Solids	90.6		%			90.5			0.1	20
Batch 8061636 - General Preparation										
Duplicate (8061636-DUP1) Source: SA80340-21										
Prepared & Analyzed: 20-Jun-08										
% Solids	96.6		%			96.6			0.05	20

Notes and Definitions

E	The concentration indicated for this analyte is an estimated value This value is considered an estimate (CLP E-flag).
QM2	The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.
QM7	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QM8	The spike recovery exceeded the QC control limits for the MS and/or MSD. The batch was accepted based upon acceptable PS and/or LCS recovery.
VC10	The VOC field preserved soil sample is not within the 1:1 weight to volume ratio as recommended by SW846 methods 5030 and 5035 but may be within the 1:1 volume to volume ratio. This variance may affect the final reporting limit
VOC8	Reporting limits reflect SW846 5030 extraction technique due to interference using SW846 5035A extraction technique.
BRL	Below Reporting Limit - Analyte NOT DETECTED at or above the reporting limit
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference

A plus sign (+) in the Method Reference column indicates the method is not accredited by NELAC

Interpretation of Total Petroleum Hydrocarbon Report

Petroleum identification is determined by comparing the GC fingerprint obtained from the sample with a library of GC fingerprints obtained from analyses of various petroleum products. Possible match categories are as follows:

Gasoline - includes regular, unleaded, premium, etc.
Fuel Oil #2 - includes home heating oil, #2 fuel oil, and diesel
Fuel Oil #4 - includes #4 fuel oil
Fuel Oil #6 - includes #6 fuel oil and bunker "C" oil
Motor Oil - includes virgin, waste automobile oil and hydraulic oil
Ligroin - includes mineral spirits, petroleum naphtha, vm&p naphtha
Aviation Fuel - includes kerosene, Jet A and JP-4
Other Oil - includes lubricating and cutting oil, and silicon oil

At times, the unidentified petroleum product is quantified using a calibration that most closely approximates the distribution of compounds in the sample. When this occurs, the result is qualified as *TPH (Calculated as).

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix

Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure The method blank is used to document contamination resulting from the analytical process

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

Validated by:
Hanibal C. Tayeh, Ph.D.
June O'Connor

State Of Connecticut
Department of Environmental Protection
Laboratory Quality Control and Quality Assurance Form

Laboratory Name: Spectrum Analytical, Inc. - Agawam, MA	Project Name and Number:
Project Location: Litchfield DOT - Litchfield, CT	Litchfield DOT - Litchfield, CT/ 03-273-35E
This Form Provides certifications for the following data set: SA80340-01 SA80340-11 SA80340-21 SA80340-02 SA80340-12 SA80340-22 SA80340-03 SA80340-13 SA80340-23 SA80340-04 SA80340-14 SA80340-24 SA80340-05 SA80340-15 SA80340-25 SA80340-06 SA80340-16 SA80340-07 SA80340-17 SA80340-08 SA80340-18 SA80340-09 SA80340-19 SA80340-10 SA80340-20	List Specific Analytical Methods Used: +CT ETPH SM2540 G Mod. SW846 6010B SW846 8260B VOC Soil Extraction
Sample Matrices: Aqueous Soil/Sediment	

A	Were all samples received by the laboratory in a condition consistent with that described on the Chain of Custody documentation for the data set?	☑ Yes ☐ No
B	Were all QA/QC procedures required for the specified analytical method(s) included in this report followed?	☑ Yes ☐ No
C	Were all QC performance standards and recommendations for the specified methods achieved?	☑ Yes ☐ No
D	Were results for all analyte-list compounds/elements for the specified method(s) reported?	☐ Yes ☑ No *

* The compounds and/or elements reported are as specifically requested by the client on the Chain of Custody and in some cases may not include the full analyte list as defined in the method

Negative responses for A, B and C are addressed in a case narrative on the cover page of this report.

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

Hanibal C. Tayeh, Ph.D.
President/Laboratory Director

Date: 6/26/2008

This laboratory report is not valid without an authorized signature on the cover page.

* Reportable Detection Limit BRL = Below Reporting Limit

Reasonable Confidence Protocols
Laboratory Analysis
QA/QC Certification Form

Laboratory Name: Spectrum Analytical, Inc. - Agawam, MA **Client:** Diversified Technology Consultants

Project Location: Litchfield DOT - Litchfield, CT **Project Number:** 03-273-35E

Sampling Date(s): 13-Jun-08 17-Jun-08

Laboratory Sample ID(s): SA80340-01 through SA80340-25

RCP Methods Used: +CT ETPH SW846 6010B SW846 8260B

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 CT DEP method-specific Reasonable Confidence Protocol documents?	☑ Yes ☐ No
1A	Were the method specified preservation and holding time requirements met?	☑ Yes ☐ No
1B	***VPH and EPH methods only***: Was the VPH or EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)? * ** These methods have not yet been approved for release by CT DEP*	☐ Yes ☐ No ☑ 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)?	☑ Yes ☐ No
3	Were samples received at an appropriate temperature?	☑ Yes ☐ No ☐ N/A
4	Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved?	☑ Yes ☐ No
5	a) Were reporting limits specified or referenced on the chain-of-custody? * b) Were these reporting limits met? ** Exceptions are defined by qualifiers*	☑ Yes ☐ No ☑ Yes ☐ 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?	☐ Yes ☑ No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	☑ Yes ☐ No

Note: 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."

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 obtaining the information contained in this analytical report, such information is accurate and complete.

Hanibal C. Tayeh, Ph.D.
President/Laboratory Director

Date: 6/26/2008

1 22 SA 80340

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 1 of 3

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: Diversified Technology Consultants
556 Washington Ave
North Haven, CT

Project Mgr.: Chris Koelle

Invoice To: DTC
DAS Pricing
04PSX0173

P.O. No.: _____ RQN: _____

Project No.: 03-273-35E
Site Name: Litchfield-DOT
Location: Litchfield State: CT
Sampler(s): ES

1=$Na_2S_2O_3$ 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid
7=CH_3OH 8= $NaHSO_4$ 9= Ice 10= DI

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

QA Reporting Notes: (check if needed)
- ☐ Provide MA DEP MCP CAM Report
- ☒ Provide CT DPH RCP Report

QA/QC Reporting Level
- ☒ Standard ☐ No QC
- ☐ Other _____

State specific reporting standards: CT RSR GA PMC + RCSDE

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Preservative	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	ETPH	Aromatic VOCs + MTBE	Lead
803610-01	MW-4 9-11'	6/13/08			SO	2/0/10	3		1		X	X	
02	MW-5 9-11'	6/13/08					3				X	X	
03	SB-11 10-12.5'	6/12/08					3				X	X	
04	SB-11 12.5-15'						1				X	X	X
05	SB-5 10-12.5'						3				X	X	
06	SB-4 7.5-10'						3				X	X	
07	SB-4 10-12.5'						1				X	X	X
08	SB-4 15-17.5'						1				X	X	X
09	SB-4 17.5-20'						1				X	X	
10	SB-6 10-12.5'						3				X	X	

☐ Fax results when available to (____) _____
☒ E-mail to chris.koelle@teamdtc.com
EDD Format _____
Condition upon receipt: ☐ Iced ☐ Ambient ☐ °C 5.2

Relinquished by:	Received by:	Date:	Time:
[signature]	[signature]	6.19.08	1100
[signature]	[signature]	6/19/08	14:30

22

80340

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HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 2 of 3

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: DTC
556 Washington Ave
North Haven, CT

Project Mgr.: Chris Koelle

Invoice To: DTC
DAS Pricing

P.O. No.: _____ RQN: _____

Project No.: 03-273-35 E
Site Name: Litchfield - DOT
Location: Litchfield State: CT
Sampler(s): CT

1=$Na_2S_2O_3$ 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid
7=CH_3OH 8= $NaHSO_4$ 9= Ice 10= DI

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

Containers: # of VOA Vials, # of Amber Glass, # of Clear Glass, # of Plastic

Analyses: ETPH, Aromatic VOCs + MTBE, Lead

QA Reporting Notes: (check if needed)
- ☐ Provide MA DEP MCP CAM Report
- ☒ Provide CT DPH RCP Report

QA/QC Reporting Level: ☒ Standard ☐ No QC ☐ Other _____

State specific reporting standards: GA PMC + RESDEC

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Preservative	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	ETPH	Aromatic VOCs + MTBE	Lead
80340-11	SB-7 10-12.5'	6/17/08			SO	7/10	3		1		X	X	
-12	SB-3 7.5-10'	↑			↓	↓	3		1		X	X	
-13	SB-3 10-12.5'						0		1		X	X	X
-14	SB-3 15-17.5'						3		1		X	X	X
-15	SB-2 7.5-10'						3		1		X	X	
-16	SB-2 10-12.5'						0		1		X	X	X
-17	SB-1 5-7.5'						3		1		X	X	
-18	SB-1 10-12.5'						0		1		X	X	X
-19	SB-1 15-17.5'						0		1		X	X	X
20	SB-1 17.5-20'	↓			↓	↓	3		1		X	X	

☐ Fax results when available to (____) _____
☒ E-mail to _____
EDD Format _____

Condition upon receipt: ☐ Iced ☐ Ambient ☐ °C 3.2

Relinquished by:	Received by:	Date:	Time:
[signature]	[signature]	6/17/08	11a
[signature]	[signature]	6/19/08	14:30

[redacted] 1[redacted]en [redacted] Ag[redacted] Ma[redacted]ett[redacted] 4[redacted] 0[redacted] Fax 41[redacted] 407[redacted] [redacted]

9

80340 CT

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HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 3 of 3

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: DTC
356 Washington Ave
North Haven, CT

Project Mgr.: Chris Roulle

Invoice To: DTC
DMS Pricing

P.O. No.: _____ RQN: _____

Project No.: 03-273-35E
Site Name: Litchfield-DOT
Location: Litchfield State: CT
Sampler(s): ES

1=$Na_2S_2O_3$ 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid
7=CH_3OH 8= $NaHSO_4$ 9= Ice 10= DI

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

QA Reporting Notes: (check if needed)
- ☐ Provide MA DEP MCP CAM Report
- ☒ Provide CT DPH RCP Report

QA/QC Reporting Level
- ☒ Standard ☐ No QC
- ☐ Other _____

State specific reporting standards: GAPMC + RES DEC

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Preservative	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	ETPH	Aromatic VOC+MTBE	Lead					
80340-21	SB-10 7.5-10'	6/17/08			SO	7/9/10	3		1		X	X						
-22	SB-10 10-12.5	↓			↓		2		1		X	X	X					
-23	SB-13 7.5-10'	↓			↓		3		1		X	X						
-24	SB-13 10-12.5'	↓			↓		2		1		X	X	X					
-25	Trip Blank					7	1					X						

☐ Fax results when available to (____) _____
☒ E-mail to _____
EDD Format _____
Condition upon receipt: ☐ Iced ☐ Ambient ☒ C 3.2

Relinquished by:	Received by:	Date:	Time:
[signature]	[signature]	6-18-08	11:00
[signature]	[signature]	6/19/08	14:30

1 Almgren Drive • Agawam, Massachusetts 01001 • 413-789-9018 • Fax 413-789-4076 • www.spectrum-analytical.com

Report Date:
08-Jul-08 08:29

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

☑ Final Report
☐ Re-Issued Report
☐ Revised Report

Laboratory Report

Diversified Technology Consultants
556 Washington Avenue
North Haven, CT 06473
Attn: Christopher Koelle

Project: Litchfield DOT - Litchfield, CT
Project 03-273-35E

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
SA80749-01	SB-2 12.5-14.5'	Soil	26-Jun-08 00:00	27-Jun-08 19:30
SA80749-02	SB-2 14.5'-16.5'	Soil	26-Jun-08 00:00	27-Jun-08 19:30
SA80749-03	SB-10 12.5-14.5'	Soil	26-Jun-08 00:00	27-Jun-08 19:30
SA80749-04	SB-13 14.5'-16.5'	Soil	26-Jun-08 00:00	27-Jun-08 19:30
SA80749-05	SB-9 10-12.5'	Soil	26-Jun-08 00:00	27-Jun-08 19:30
SA80749-06	SB-9 12.5-15'	Soil	26-Jun-08 00:00	27-Jun-08 19:30
SA80749-07	SB-9 15-17.5	Soil	26-Jun-08 00:00	27-Jun-08 19:30
SA80749-08	SB-9 17.5-20'	Soil	26-Jun-08 00:00	27-Jun-08 19:30
SA80749-09	SB-16 7.5-10'	Soil	26-Jun-08 00:00	27-Jun-08 19:30
SA80749-10	SB-16 10-12.5'	Soil	26-Jun-08 00:00	27-Jun-08 19:30
SA80749-11	SB-16 15-17.5'	Soil	26-Jun-08 00:00	27-Jun-08 19:30
SA80749-12	SB-12 7.5-10'	Soil	26-Jun-08 00:00	27-Jun-08 19:30
SA80749-13	SB-12 10-12.5'	Soil	26-Jun-08 00:00	27-Jun-08 19:30
SA80749-14	SB-12 15-17.5'	Soil	26-Jun-08 00:00	27-Jun-08 19:30
SA80749-15	SB-15 7.5-10'	Soil	26-Jun-08 00:00	27-Jun-08 19:30
SA80749-16	SB-15 10-12.5'	Soil	26-Jun-08 00:00	27-Jun-08 19:30
SA80749-17	SB-15 15.17.5'	Soil	26-Jun-08 00:00	27-Jun-08 19:30
SA80749-18	SB-14 7.5-10'	Soil	26-Jun-08 00:00	27-Jun-08 19:30
SA80749-19	SB-14 10-12.5'	Soil	26-Jun-08 00:00	27-Jun-08 19:30
SA80749-20	SB-14 15.17.5'	Soil	26-Jun-08 00:00	27-Jun-08 19:30
SA80749-21	SB-14 17.5-20'	Soil	26-Jun-08 00:00	27-Jun-08 19:30
SA80749-22	SB-8 7.5-10'	Soil	26-Jun-08 00:00	27-Jun-08 19:30
SA80749-23	SB-17 7.5-10'	Soil	26-Jun-08 00:00	27-Jun-08 19:30
SA80749-24	SB-17 10-12.5	Soil	26-Jun-08 00:00	27-Jun-08 19:30
SA80749-25	Duplicate	Soil	26-Jun-08 00:00	27-Jun-08 19:30
SA80749-26	Trip Blank	Methanol	26-Jun-08 00:00	27-Jun-08 19:30

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received.
All applicable NELAC requirements have been met
Please note that this report contains 54 pages of analytical data plus Chain of Custody document(s).
This report may not be reproduced, except in full, without written approval from Spectrum Analytical Inc.

Massachusetts Certification # M-MA138/MA1110
Connecticut # PH-0777
Florida # E87600/E87936
Maine # MA138
New Hampshire # 2538
New Jersey # MA011/MA012
New York # 11393/11840
Rhode Island # 98
USDA # S-51435
Vermont # VT-11393

Authorized by:

Hanibal C. Tayeh, Ph.D.
President/Laboratory Director

Technical Reviewer's Initial:

Spectrum Analytical, Inc. is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Spectrum is currently accredited for the specific method or analyte indicated. Please refer to our "Quality" web page at www.spectrum-analytical.com for a full listing of our current certifications and fields of accreditation. States in which Spectrum Analytical, Inc. holds NELAC certification are New York, New Hampshire, New Jersey and Florida. All analytical work for Volatile Organic and Air analysis are transferred to and conducted at our 830 Silver Street location (NY-11840, FL-E87936 and NJ-MA012).

CASE NARRATIVE:

The samples were received 14.1 degrees Celsius, please refer to the Chain of Custody for details specific to temperature upon receipt An infrared thermometer with a tolerance of+/- 2.0 degrees Celsius was used immediately upon receipt of the samples Temperatures exceeding the +/- 2.0 degrees Celsius may affect sample results as stated in each specific method samples collected for air analysis should be collected and submitted at ambient temperature

CTDEP has published a list of analytical methods which provides a series of recommended protocols for the acquisition analysis and reporting of analytical data in support of decisions being made utilizing the Reasonable Confidence Protocol(RCP). "Reasonable Confidence" can be established only for those methods published by the CTDEP in the RCP guidelines The compounds and/or elements reported were specifically requested by the client on the Chain of Custody and in some cases may not include the full analyte list as defined in the method

The CTDEP RCP requests that "all non-detects and all results below the reporting limit are reported as ND (Not Detected at the Specified Reporting Limit)". All non-detects and all results below the reporting limit are reported as "BRL" (Below the Reporting Limit) in this report.

If no reporting limits were specified or referenced on the chain-of-custody the laboratory's practical quantitation limits were applied

Required site-specific Matrix Spike/Matrix Spike Duplicate (MS/MSD) must be requested by the client and sufficient sample must be submitted for the additional analyses Samples submitted with insufficient volume/weight will not be analyzed for site specific MS/MSD, however a batch MS/MSD may be analyzed from a non-site specific sample.

According to CTDEP RCP Quality Assurance and Quality Control Requirements for VOCs by method8260, SW-846 version 1, 7/28/05 Table 1A, recovery for some VOC analytes have been deemed potentially difficult Although they may still be within the recommended 70%-130% recovery range, a range has been set based on historical control limits

See below for any non-conformances and issues relating to quality control samples and/or sample analysis/matrix.

SW846 8260B

Laboratory Control Samples:

8070227-BS1

Analyte out of acceptance range.

Naphthalene

8070402-BS1

Analyte out of acceptance range.

m,p-Xylene

SW846 8260B

Spikes:

8070167-MS1 *Source: SA80687-06*

The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

1,1-Dichloroethene

8070167-MSD1 *Source: SA80687-06*

The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

1,1-Dichloroethene
Trichloroethene

8070214-MS1 *Source: SA80778-01*

The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

1,1-Dichloroethene

8070214-MSD1 *Source: SA80778-01*

The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

1,1-Dichloroethene

SW846 8260B

Samples:

SA80749-02 *SB-2 14.5'-16.5'*

The VOC field preserved soil sample is not within the 1:1 weight to volume ratio as recommended by SW846 methods 5030 and 5035 but may be within the 1:1 volume to volume ratio. This variance may affect the final reporting limit

SA80749-02RE1 *SB-2 14.5'-16.5'*

The VOC field preserved soil sample is not within the 1:1 weight to volume ratio as recommended by SW846 methods 5030 and 5035 but may be within the 1:1 volume to volume ratio. This variance may affect the final reporting limit

SA80749-03 *SB-10 12.5-14.5'*

The VOC field preserved soil sample is not within the 1:1 weight to volume ratio as recommended by SW846 methods 5030 and 5035 but may be within the 1:1 volume to volume ratio. This variance may affect the final reporting limit

SA80749-08 *SB-9 17.5-20'*

The VOC field preserved soil sample is not within the 1:1 weight to volume ratio as recommended by SW846 methods 5030 and 5035 but may be within the 1:1 volume to volume ratio. This variance may affect the final reporting limit

SA80749-09 *SB-16 7.5-10'*

The VOC field preserved soil sample is not within the 1:1 weight to volume ratio as recommended by SW846 methods 5030 and 5035 but may be within the 1:1 volume to volume ratio. This variance may affect the final reporting limit

SA80749-11 *SB-16 15-17.5'*

The VOC field preserved soil sample is not within the 1:1 weight to volume ratio as recommended by SW846 methods 5030 and 5035 but may be within the 1:1 volume to volume ratio. This variance may affect the final reporting limit

SA80749-13 *SB-12 10-12.5'*

The VOC field preserved soil sample is not within the 1:1 weight to volume ratio as recommended by SW846 methods 5030 and 5035 but may be within the 1:1 volume to volume ratio. This variance may affect the final reporting limit

SA80749-13RE1 *SB-12 10-12.5'*

The VOC field preserved soil sample is not within the 1:1 weight to volume ratio as recommended by SW846 methods 5030 and 5035 but may be within the 1:1 volume to volume ratio. This variance may affect the final reporting limit

SA80749-14 *SB-12 15-17.5'*

The VOC field preserved soil sample is not within the 1:1 weight to volume ratio as recommended by SW846 methods 5030 and 5035 but may be within the 1:1 volume to volume ratio. This variance may affect the final reporting limit

SA80749-15 *SB-15 7.5-10'*

The VOC field preserved soil sample is not within the 1:1 weight to volume ratio as recommended by SW846 methods 5030 and 5035 but may be within the 1:1 volume to volume ratio. This variance may affect the final reporting limit

SA80749-18 *SB-14 7.5-10'*

The VOC field preserved soil sample is not within the 1:1 weight to volume ratio as recommended by SW846 methods 5030 and 5035 but may be within the 1:1 volume to volume ratio. This variance may affect the final reporting limit

SW846 8260B

Samples:

SA80749-19 *SB-14 10-12.5'*

The VOC field preserved soil sample is not within the 1:1 weight to volume ratio as recommended by SW846 methods 5030 and 5035 but may be within the 1:1 volume to volume ratio. This variance may affect the final reporting limit

SA80749-19RE1 *SB-14 10-12.5'*

The VOC field preserved soil sample is not within the 1:1 weight to volume ratio as recommended by SW846 methods 5030 and 5035 but may be within the 1:1 volume to volume ratio. This variance may affect the final reporting limit

SA80749-20 *SB-14 15.17.5'*

Elevated Reporting Limits due to the presence of high levels of non-target analytes.

SA80749-21 *SB-14 17.5-20'*

The VOC field preserved soil sample is not within the 1:1 weight to volume ratio as recommended by SW846 methods 5030 and 5035 but may be within the 1:1 volume to volume ratio. This variance may affect the final reporting limit

SA80749-22 *SB-8 7.5-10'*

The VOC field preserved soil sample is not within the 1:1 weight to volume ratio as recommended by SW846 methods 5030 and 5035 but may be within the 1:1 volume to volume ratio. This variance may affect the final reporting limit

SA80749-23 *SB-17 7.5-10'*

The VOC field preserved soil sample is not within the 1:1 weight to volume ratio as recommended by SW846 methods 5030 and 5035 but may be within the 1:1 volume to volume ratio. This variance may affect the final reporting limit

SA80749-24 *SB-17 10-12.5*

The VOC field preserved soil sample is not within the 1:1 weight to volume ratio as recommended by SW846 methods 5030 and 5035 but may be within the 1:1 volume to volume ratio. This variance may affect the final reporting limit

SA80749-25 *Duplicate*

Elevated Reporting Limits due to the presence of high levels of non-target analytes.

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-2 12.5-14.5' SA80749-01	03-273-35E	Soil	26-Jun-08 00:00	27-Jun-08

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Analyst
Volatile Organic Compounds											
	VOC Extraction	Field extracted		N/A		1	VOC Soil Extraction	28-Jun-08	28-Jun-08	8062228	DN
Volatile Organic Compounds by SW846 8260B											
Prepared by method SW846 5030 Soil (high level)					Initial weight: 13.17 g						
71-43-2	Benzene	BRL		µg/kg dry	88.9	50	SW846 8260B	02-Jul-08	02-Jul-08	8070167	ADU
104-51-8	n-Butylbenzene	BRL		µg/kg dry	88.9	50	"	"	"	"	"
135-98-8	sec-Butylbenzene	BRL		µg/kg dry	88.9	50	"	"	"	"	"
98-06-6	tert-Butylbenzene	BRL		µg/kg dry	88.9	50	"	"	"	"	"
100-41-4	Ethylbenzene	BRL		µg/kg dry	88.9	50	"	"	"	"	"
98-82-8	Isopropylbenzene	BRL		µg/kg dry	88.9	50	"	"	"	"	"
99-87-6	4-Isopropyltoluene	BRL		µg/kg dry	88.9	50	"	"	"	"	"
1634-04-4	Methyl tert-butyl ether	BRL		µg/kg dry	88.9	50	"	"	"	"	"
91-20-3	Naphthalene	BRL		µg/kg dry	88.9	50	"	"	"	"	"
103-65-1	n-Propylbenzene	BRL		µg/kg dry	88.9	50	"	"	"	"	"
108-88-3	Toluene	BRL		µg/kg dry	88.9	50	"	"	"	"	"
95-63-6	1,2,4-Trimethylbenzene	BRL		µg/kg dry	88.9	50	"	"	"	"	"
108-67-8	1,3,5-Trimethylbenzene	BRL		µg/kg dry	88.9	50	"	"	"	"	"
179601-23-1	m,p-Xylene	BRL		µg/kg dry	178	50	"	"	"	"	"
95-47-6	o-Xylene	BRL		µg/kg dry	88.9	50	"	"	"	"	"
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*110*		*70-130 %*			"	"	"	"	"
2037-26-5	*Toluene-d8*	*102*		*70-130 %*			"	"	"	"	"
17060-07-0	*1,2-Dichloroethane-d4*	*97*		*70-130 %*			"	"	"	"	"
1868-53-7	*Dibromofluoromethane*	*97*		*70-130 %*			"	"	"	"	"
Extractable Petroleum Hydrocarbons											
Extractable Total Petroleum Hydrocarbons											
Prepared by method SW846 3550B											
8006-61-9	Gasoline	BRL		mg/kg dry	32.8	1	+CT ETPH	02-Jul-08	03-Jul-08	8070186	SHM
68476-30-2	Fuel Oil #2	BRL		mg/kg dry	32.8	1	"	"	"	"	"
68476-31-3	Fuel Oil #4	BRL		mg/kg dry	32.8	1	"	"	"	"	"
68553-00-4	Fuel Oil #6	BRL		mg/kg dry	32.8	1	"	"	"	"	"
M09800000	Motor Oil	BRL		mg/kg dry	32.8	1	"	"	"	"	"
J00100000	Aviation Fuel	BRL		mg/kg dry	32.8	1	"	"	"	"	"
	Unidentified	BRL		mg/kg dry	32.8	1	"	"	"	"	"
	Other Oil	BRL		mg/kg dry	32.8	1	"	"	"	"	"
	Total Petroleum Hydrocarbons	BRL		mg/kg dry	32.8	1	"	"	"	"	"
	C9-C36 Aliphatic Hydrocarbons	BRL		mg/kg dry	32.8	1	"	"	"	"	"
Surrogate recoveries:											
3386-33-2	*1-Chlorooctadecane*	*69*		*50-150 %*			"	"	"	"	"
General Chemistry Parameters											
	% Solids	77.0		%		1	SM2540 G Mod.	30-Jun-08	30-Jun-08	8062308	JB

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-2 14.5'-16.5' SA80749-02	03-273-35E	Soil	26-Jun-08 00:00	27-Jun-08

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Analyst
Volatile Organic Compounds											
	VOC Extraction	Field extracted		N/A		1	VOC Soil Extraction	28-Jun-08	28-Jun-08	8062228	DN
Volatile Organic Compounds by SW846 8260B			VC10			Initial weight: 8.53 g					
Prepared by method SW846 5035A Soil (low level)											
71-43-2	Benzene	178		µg/kg dry	5.5	1	SW846 8260B	02-Jul-08	03-Jul-08	8070041	JLD
104-51-8	n-Butylbenzene	BRL		µg/kg dry	5.5	1	"	"	"	"	"
135-98-8	sec-Butylbenzene	BRL		µg/kg dry	5.5	1	"	"	"	"	"
98-06-6	tert-Butylbenzene	BRL		µg/kg dry	5.5	1	"	"	"	"	"
100-41-4	Ethylbenzene	634	E	µg/kg dry	5.5	1	"	"	"	"	"
98-82-8	Isopropylbenzene	19.1		µg/kg dry	5.5	1	"	"	"	"	"
99-87-6	4-Isopropyltoluene	BRL		µg/kg dry	5.5	1	"	"	"	"	"
1634-04-4	Methyl tert-butyl ether	BRL		µg/kg dry	5.5	1	"	"	"	"	"
91-20-3	Naphthalene	213		µg/kg dry	5.5	1	"	"	"	"	"
103-65-1	n-Propylbenzene	54.5		µg/kg dry	5.5	1	"	"	"	"	"
108-88-3	Toluene	2,440	E	µg/kg dry	5.5	1	"	"	"	"	"
95-63-6	1,2,4-Trimethylbenzene	421	E	µg/kg dry	5.5	1	"	"	"	"	"
108-67-8	1,3,5-Trimethylbenzene	118		µg/kg dry	5.5	1	"	"	"	"	"
179601-23-1	m,p-Xylene	1,390	E	µg/kg dry	11.0	1	"	"	"	"	"
95-47-6	o-Xylene	930	E	µg/kg dry	5.5	1	"	"	"	"	"
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*104*		*70-130 %*			"	"	"	"	"
2037-26-5	*Toluene-d8*	*103*		*70-130 %*			"	"	"	"	"
17060-07-0	*1,2-Dichloroethane-d4*	*115*		*70-130 %*			"	"	"	"	"
1868-53-7	*Dibromofluoromethane*	*106*		*70-130 %*			"	"	"	"	"
Re-analysis of Volatile Organic Compounds by SW846 8260B											
71-43-2	Benzene	BRL		µg/kg dry	655	500	SW846 8260B	07-Jul-08	07-Jul-08	8070402	ADU
104-51-8	n-Butylbenzene	BRL		µg/kg dry	655	500	"	"	"	"	"
135-98-8	sec-Butylbenzene	BRL		µg/kg dry	655	500	"	"	"	"	"
98-06-6	tert-Butylbenzene	BRL		µg/kg dry	655	500	"	"	"	"	"
100-41-4	Ethylbenzene	911		µg/kg dry	655	500	"	"	"	"	"
98-82-8	Isopropylbenzene	BRL		µg/kg dry	655	500	"	"	"	"	"
99-87-6	4-Isopropyltoluene	BRL		µg/kg dry	655	500	"	"	"	"	"
1634-04-4	Methyl tert-butyl ether	BRL		µg/kg dry	655	500	"	"	"	"	"
91-20-3	Naphthalene	BRL		µg/kg dry	655	500	"	"	"	"	"
103-65-1	n-Propylbenzene	BRL		µg/kg dry	655	500	"	"	"	"	"
108-88-3	Toluene	3,810		µg/kg dry	655	500	"	"	"	"	"
95-63-6	1,2,4-Trimethylbenzene	1,780		µg/kg dry	655	500	"	"	"	"	"
108-67-8	1,3,5-Trimethylbenzene	BRL		µg/kg dry	655	500	"	"	"	"	"
179601-23-1	m,p-Xylene	2,360		µg/kg dry	1310	500	"	"	"	"	"
95-47-6	o-Xylene	1,280		µg/kg dry	655	500	"	"	"	"	"
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*104*		*70-130 %*			"	"	"	"	"
2037-26-5	*Toluene-d8*	*102*		*70-130 %*			"	"	"	"	"
17060-07-0	*1,2-Dichloroethane-d4*	*97*		*70-130 %*			"	"	"	"	"
1868-53-7	*Dibromofluoromethane*	*100*		*70-130 %*			"	"	"	"	"
General Chemistry Parameters											
	% Solids	75.7		%		1	SM2540 G Mod.	30-Jun-08	30-Jun-08	8062308	JB

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-10 12.5-14.5' SA80749-03	03-273-35E	Soil	26-Jun-08 00:00	27-Jun-08

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Analyst
Volatile Organic Compounds											
	VOC Extraction	Field extracted		N/A		1	VOC Soil Extraction	28-Jun-08	28-Jun-08	8062228	DN
Volatile Organic Compounds by SW846 8260B			VC10			Initial weight: 7.48 g					
Prepared by method SW846 5035A Soil (low level)											
71-43-2	Benzene	BRL		µg/kg dry	4.7	1	SW846 8260B	03-Jul-08	03-Jul-08	8070291	JLD
104-51-8	n-Butylbenzene	BRL		µg/kg dry	4.7	1	"	"	"	"	"
135-98-8	sec-Butylbenzene	BRL		µg/kg dry	4.7	1	"	"	"	"	"
98-06-6	tert-Butylbenzene	BRL		µg/kg dry	4.7	1	"	"	"	"	"
100-41-4	Ethylbenzene	BRL		µg/kg dry	4.7	1	"	"	"	"	"
98-82-8	Isopropylbenzene	BRL		µg/kg dry	4.7	1	"	"	"	"	"
99-87-6	4-Isopropyltoluene	BRL		µg/kg dry	4.7	1	"	"	"	"	"
1634-04-4	Methyl tert-butyl ether	BRL		µg/kg dry	4.7	1	"	"	"	"	"
91-20-3	Naphthalene	BRL		µg/kg dry	4.7	1	"	"	"	"	"
103-65-1	n-Propylbenzene	BRL		µg/kg dry	4.7	1	"	"	"	"	"
108-88-3	Toluene	BRL		µg/kg dry	4.7	1	"	"	"	"	"
95-63-6	1,2,4-Trimethylbenzene	BRL		µg/kg dry	4.7	1	"	"	"	"	"
108-67-8	1,3,5-Trimethylbenzene	BRL		µg/kg dry	4.7	1	"	"	"	"	"
179601-23-1	m,p-Xylene	BRL		µg/kg dry	9.4	1	"	"	"	"	"
95-47-6	o-Xylene	BRL		µg/kg dry	4.7	1	"	"	"	"	"
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*108*		*70-130 %*			"	"	"	"	"
2037-26-5	*Toluene-d8*	*103*		*70-130 %*			"	"	"	"	"
17060-07-0	*1,2-Dichloroethane-d4*	*126*		*70-130 %*			"	"	"	"	"
1868-53-7	*Dibromofluoromethane*	*102*		*70-130 %*			"	"	"	"	"
General Chemistry Parameters											
	% Solids	85.8		%		1	SM2540 G Mod.	30-Jun-08	30-Jun-08	8062308	JB

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-13 14.5'-16.5' SA80749-04	03-273-35E	Soil	26-Jun-08 00:00	27-Jun-08

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*
Volatile Organic Compounds											
	VOC Extraction	Field extracted		N/A		1	VOC Soil Extraction	28-Jun-08	28-Jun-08	8062228	DN
Volatile Organic Compounds by SW846 8260B						Initial weight: 16.51 g					
Prepared by method SW846 5030 Soil (high level)											
71-43-2	Benzene	256		µg/kg dry	141	100	SW846 8260B	03-Jul-08	03-Jul-08	8070290	ADU
104-51-8	n-Butylbenzene	622		µg/kg dry	141	100	"	"	"	"	"
135-98-8	sec-Butylbenzene	384		µg/kg dry	141	100	"	"	"	"	"
98-06-6	tert-Butylbenzene	BRL		µg/kg dry	141	100	"	"	"	"	"
100-41-4	Ethylbenzene	3,780		µg/kg dry	141	100	"	"	"	"	"
98-82-8	Isopropylbenzene	348		µg/kg dry	141	100	"	"	"	"	"
99-87-6	4-Isopropyltoluene	BRL		µg/kg dry	141	100	"	"	"	"	"
1634-04-4	Methyl tert-butyl ether	BRL		µg/kg dry	141	100	"	"	"	"	"
91-20-3	Naphthalene	1,690		µg/kg dry	141	100	"	"	"	"	"
103-65-1	n-Propylbenzene	1,470		µg/kg dry	141	100	"	"	"	"	"
108-88-3	Toluene	4,350		µg/kg dry	141	100	"	"	"	"	"
95-63-6	1,2,4-Trimethylbenzene	9,120		µg/kg dry	141	100	"	"	"	"	"
108-67-8	1,3,5-Trimethylbenzene	2,970		µg/kg dry	141	100	"	"	"	"	"
179601-23-1	m,p-Xylene	16,300		µg/kg dry	283	100	"	"	"	"	"
95-47-6	o-Xylene	5,150		µg/kg dry	141	100	"	"	"	"	"
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*110*		*70-130 %*			"	"	"	"	"
2037-26-5	*Toluene-d8*	*104*		*70-130 %*			"	"	"	"	"
17060-07-0	*1,2-Dichloroethane-d4*	*102*		*70-130 %*			"	"	"	"	"
1868-53-7	*Dibromofluoromethane*	*99*		*70-130 %*			"	"	"	"	"
General Chemistry Parameters											
	% Solids	79.1		%		1	SM2540 G Mod.	30-Jun-08	30-Jun-08	8062308	JB

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-9 10-12.5' SA80749-05	03-273-35E	Soil	26-Jun-08 00:00	27-Jun-08

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*
Volatile Organic Compounds											
	VOC Extraction	Field extracted		N/A		1	VOC Soil Extraction	28-Jun-08	28-Jun-08	8062228	DN
Volatile Organic Compounds by SW846 8260B						Initial weight: 5.96 g					
Prepared by method SW846 5035A Soil (low level)											
71-43-2	Benzene	BRL		µg/kg dry	5.6	1	SW846 8260B	02-Jul-08	03-Jul-08	8070041	JLD
104-51-8	n-Butylbenzene	BRL		µg/kg dry	5.6	1	"	"	"	"	"
135-98-8	sec-Butylbenzene	BRL		µg/kg dry	5.6	1	"	"	"	"	"
98-06-6	tert-Butylbenzene	BRL		µg/kg dry	5.6	1	"	"	"	"	"
100-41-4	Ethylbenzene	BRL		µg/kg dry	5.6	1	"	"	"	"	"
98-82-8	Isopropylbenzene	BRL		µg/kg dry	5.6	1	"	"	"	"	"
99-87-6	4-Isopropyltoluene	BRL		µg/kg dry	5.6	1	"	"	"	"	"
1634-04-4	Methyl tert-butyl ether	BRL		µg/kg dry	5.6	1	"	"	"	"	"
91-20-3	Naphthalene	BRL		µg/kg dry	5.6	1	"	"	"	"	"
103-65-1	n-Propylbenzene	BRL		µg/kg dry	5.6	1	"	"	"	"	"
108-88-3	Toluene	7.8		µg/kg dry	5.6	1	"	"	"	"	"
95-63-6	1,2,4-Trimethylbenzene	BRL		µg/kg dry	5.6	1	"	"	"	"	"
108-67-8	1,3,5-Trimethylbenzene	BRL		µg/kg dry	5.6	1	"	"	"	"	"
179601-23-1	m,p-Xylene	BRL		µg/kg dry	11.1	1	"	"	"	"	"
95-47-6	o-Xylene	BRL		µg/kg dry	5.6	1	"	"	"	"	"
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*103*		*70-130 %*			"	"	"	"	"
2037-26-5	*Toluene-d8*	*104*		*70-130 %*			"	"	"	"	"
17060-07-0	*1,2-Dichloroethane-d4*	*123*		*70-130 %*			"	"	"	"	"
1868-53-7	*Dibromofluoromethane*	*113*		*70-130 %*			"	"	"	"	"
General Chemistry Parameters											
	% Solids	87.1		%		1	SM2540 G Mod.	30-Jun-08	30-Jun-08	8062308	JB

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* Reportable Detection Limit BRL = Below Reporting Limit

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-9 12.5-15' SA80749-06	03-273-35E	Soil	26-Jun-08 00:00	27-Jun-08

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*
Volatile Organic Compounds											
	VOC Extraction	Field extracted		N/A		1	VOC Soil Extraction	28-Jun-08	28-Jun-08	8062228	DN
Volatile Organic Compounds by SW846 8260B											
Prepared by method SW846 5030 Soil (high level)					Initial weight: 15.83 g						
71-43-2	Benzene	BRL		µg/kg dry	6350	5000	SW846 8260B	30-Jun-08	30-Jun-08	8062316	ADU
104-51-8	n-Butylbenzene	22,600		µg/kg dry	6350	5000	"	"	"	"	"
135-98-8	sec-Butylbenzene	15,200		µg/kg dry	6350	5000	"	"	"	"	"
98-06-6	tert-Butylbenzene	BRL		µg/kg dry	6350	5000	"	"	"	"	"
100-41-4	Ethylbenzene	136,000		µg/kg dry	6350	5000	"	"	"	"	"
98-82-8	Isopropylbenzene	12,200		µg/kg dry	6350	5000	"	"	"	"	"
99-87-6	4-Isopropyltoluene	BRL		µg/kg dry	6350	5000	"	"	"	"	"
1634-04-4	Methyl tert-butyl ether	BRL		µg/kg dry	6350	5000	"	"	"	"	"
91-20-3	Naphthalene	52,500		µg/kg dry	6350	5000	"	"	"	"	"
103-65-1	n-Propylbenzene	55,300		µg/kg dry	6350	5000	"	"	"	"	"
108-88-3	Toluene	139,000		µg/kg dry	6350	5000	"	"	"	"	"
95-63-6	1,2,4-Trimethylbenzene	269,000		µg/kg dry	6350	5000	"	"	"	"	"
108-67-8	1,3,5-Trimethylbenzene	91,300		µg/kg dry	6350	5000	"	"	"	"	"
179601-23-1	m,p-Xylene	545,000		µg/kg dry	12700	5000	"	"	"	"	"
95-47-6	o-Xylene	202,000		µg/kg dry	6350	5000	"	"	"	"	"
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*105*		*70-130 %*			"	"	"	"	"
2037-26-5	*Toluene-d8*	*103*		*70-130 %*			"	"	"	"	"
17060-07-0	*1,2-Dichloroethane-d4*	*96*		*70-130 %*			"	"	"	"	"
1868-53-7	*Dibromofluoromethane*	*100*		*70-130 %*			"	"	"	"	"
General Chemistry Parameters											
	% Solids	85.8		%		1	SM2540 G Mod.	30-Jun-08	30-Jun-08	8062308	JB

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-9 15-17.5 SA80749-07	03-273-35E	Soil	26-Jun-08 00:00	27-Jun-08

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Analyst
Volatile Organic Compounds											
	VOC Extraction	Field extracted		N/A		1	VOC Soil Extraction	28-Jun-08	28-Jun-08	8062228	DN
Volatile Organic Compounds by SW846 8260B						Initial weight: 15.2 g					
Prepared by method SW846 5030 Soil (high level)											
71-43-2	Benzene	BRL		µg/kg dry	310	200	SW846 8260B	02-Jul-08	02-Jul-08	8070167	ADU
104-51-8	n-Butylbenzene	1,610		µg/kg dry	310	200	"	"	"	"	"
135-98-8	sec-Butylbenzene	837		µg/kg dry	310	200	"	"	"	"	"
98-06-6	tert-Butylbenzene	BRL		µg/kg dry	310	200	"	"	"	"	"
100-41-4	Ethylbenzene	9,440		µg/kg dry	310	200	"	"	"	"	"
98-82-8	Isopropylbenzene	794		µg/kg dry	310	200	"	"	"	"	"
99-87-6	4-Isopropyltoluene	BRL		µg/kg dry	310	200	"	"	"	"	"
1634-04-4	Methyl tert-butyl ether	BRL		µg/kg dry	310	200	"	"	"	"	"
91-20-3	Naphthalene	4,240		µg/kg dry	310	200	"	"	"	"	"
103-65-1	n-Propylbenzene	3,560		µg/kg dry	310	200	"	"	"	"	"
108-88-3	Toluene	9,560		µg/kg dry	310	200	"	"	"	"	"
95-63-6	1,2,4-Trimethylbenzene	20,100		µg/kg dry	310	200	"	"	"	"	"
108-67-8	1,3,5-Trimethylbenzene	6,370		µg/kg dry	310	200	"	"	"	"	"
179601-23-1	m,p-Xylene	35,800		µg/kg dry	620	200	"	"	"	"	"
95-47-6	o-Xylene	13,800		µg/kg dry	310	200	"	"	"	"	"
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*106*		*70-130 %*			"	"	"	"	"
2037-26-5	*Toluene-d8*	*107*		*70-130 %*			"	"	"	"	"
17060-07-0	*1,2-Dichloroethane-d4*	*97*		*70-130 %*			"	"	"	"	"
1868-53-7	*Dibromofluoromethane*	*98*		*70-130 %*			"	"	"	"	"
Extractable Petroleum Hydrocarbons											
Extractable Total Petroleum Hydrocarbons											
Prepared by method SW846 3550B											
8006-61-9	Gasoline	BRL		mg/kg dry	37.9	1	+CT ETPH	02-Jul-08	03-Jul-08	8070186	SHM
68476-30-2	Fuel Oil #2	BRL		mg/kg dry	37.9	1	"	"	"	"	"
68476-31-3	Fuel Oil #4	BRL		mg/kg dry	37.9	1	"	"	"	"	"
68553-00-4	Fuel Oil #6	BRL		mg/kg dry	37.9	1	"	"	"	"	"
M09800000	Motor Oil	BRL		mg/kg dry	37.9	1	"	"	"	"	"
J00100000	Aviation Fuel	BRL		mg/kg dry	37.9	1	"	"	"	"	"
	Unidentified	BRL		mg/kg dry	37.9	1	"	"	"	"	"
	Other Oil	BRL		mg/kg dry	37.9	1	"	"	"	"	"
	Total Petroleum Hydrocarbons	BRL		mg/kg dry	37.9	1	"	"	"	"	"
	C9-C36 Aliphatic Hydrocarbons	BRL		mg/kg dry	37.9	1	"	"	"	"	"
Surrogate recoveries:											
3386-33-2	*1-Chlorooctadecane*	*55*		*50-150 %*			"	"	"	"	"
General Chemistry Parameters											
	% Solids	77.9		%		1	SM2540 G Mod.	30-Jun-08	30-Jun-08	8062308	JB

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* Reportable Detection Limit BRL = Below Reporting Limit

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-9 17.5-20' SA80749-08	03-273-35E	Soil	26-Jun-08 00:00	27-Jun-08

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Analyst
Volatile Organic Compounds											
	VOC Extraction	Field extracted		N/A		1	VOC Soil Extraction	28-Jun-08	28-Jun-08	8062228	DN
Volatile Organic Compounds by SW846 8260B			VC10			Initial weight: 8.9 g					
Prepared by method SW846 5035A Soil (low level)											
71-43-2	Benzene	108		µg/kg dry	4.5	1	SW846 8260B	02-Jul-08	03-Jul-08	8070041	JLD
104-51-8	n-Butylbenzene	BRL		µg/kg dry	4.5	1	"	"	"	"	"
135-98-8	sec-Butylbenzene	BRL		µg/kg dry	4.5	1	"	"	"	"	"
98-06-6	tert-Butylbenzene	BRL		µg/kg dry	4.5	1	"	"	"	"	"
100-41-4	Ethylbenzene	172		µg/kg dry	4.5	1	"	"	"	"	"
98-82-8	Isopropylbenzene	5.6		µg/kg dry	4.5	1	"	"	"	"	"
99-87-6	4-Isopropyltoluene	BRL		µg/kg dry	4.5	1	"	"	"	"	"
1634-04-4	Methyl tert-butyl ether	BRL		µg/kg dry	4.5	1	"	"	"	"	"
91-20-3	Naphthalene	71.6		µg/kg dry	4.5	1	"	"	"	"	"
103-65-1	n-Propylbenzene	16.6		µg/kg dry	4.5	1	"	"	"	"	"
108-88-3	Toluene	265	E	µg/kg dry	4.5	1	"	"	"	"	"
95-63-6	1,2,4-Trimethylbenzene	130		µg/kg dry	4.5	1	"	"	"	"	"
108-67-8	1,3,5-Trimethylbenzene	31.0		µg/kg dry	4.5	1	"	"	"	"	"
179601-23-1	m,p-Xylene	507	E	µg/kg dry	9.0	1	"	"	"	"	"
95-47-6	o-Xylene	172		µg/kg dry	4.5	1	"	"	"	"	"
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*103*		*70-130 %*			"	"	"	"	"
2037-26-5	*Toluene-d8*	*103*		*70-130 %*			"	"	"	"	"
17060-07-0	*1,2-Dichloroethane-d4*	*123*		*70-130 %*			"	"	"	"	"
1868-53-7	*Dibromofluoromethane*	*107*		*70-130 %*			"	"	"	"	"
Re-analysis of Volatile Organic Compounds by SW846 8260B											
71-43-2	Benzene	BRL		µg/kg dry	331	200	SW846 8260B	03-Jul-08	03-Jul-08	8070290	ADU
104-51-8	n-Butylbenzene	BRL		µg/kg dry	331	200	"	"	"	"	"
135-98-8	sec-Butylbenzene	BRL		µg/kg dry	331	200	"	"	"	"	"
98-06-6	tert-Butylbenzene	BRL		µg/kg dry	331	200	"	"	"	"	"
100-41-4	Ethylbenzene	467		µg/kg dry	331	200	"	"	"	"	"
98-82-8	Isopropylbenzene	BRL		µg/kg dry	331	200	"	"	"	"	"
99-87-6	4-Isopropyltoluene	BRL		µg/kg dry	331	200	"	"	"	"	"
1634-04-4	Methyl tert-butyl ether	BRL		µg/kg dry	331	200	"	"	"	"	"
91-20-3	Naphthalene	BRL		µg/kg dry	331	200	"	"	"	"	"
103-65-1	n-Propylbenzene	BRL		µg/kg dry	331	200	"	"	"	"	"
108-88-3	Toluene	1,110		µg/kg dry	331	200	"	"	"	"	"
95-63-6	1,2,4-Trimethylbenzene	930		µg/kg dry	331	200	"	"	"	"	"
108-67-8	1,3,5-Trimethylbenzene	BRL		µg/kg dry	331	200	"	"	"	"	"
179601-23-1	m,p-Xylene	1,560		µg/kg dry	662	200	"	"	"	"	"
95-47-6	o-Xylene	648		µg/kg dry	331	200	"	"	"	"	"
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*105*		*70-130 %*			"	"	"	"	"
2037-26-5	*Toluene-d8*	*105*		*70-130 %*			"	"	"	"	"
17060-07-0	*1,2-Dichloroethane-d4*	*100*		*70-130 %*			"	"	"	"	"
1868-53-7	*Dibromofluoromethane*	*97*		*70-130 %*			"	"	"	"	"
General Chemistry Parameters											
	% Solids	82.1		%		1	SM2540 G Mod.	30-Jun-08	30-Jun-08	8062308	JB

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* Reportable Detection Limit BRL = Below Reporting Limit

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-16 7.5-10' SA80749-09	03-273-35E	Soil	26-Jun-08 00:00	27-Jun-08

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*
Volatile Organic Compounds											
	VOC Extraction	Field extracted		N/A		1	VOC Soil Extraction	28-Jun-08	28-Jun-08	8062228	DN
Volatile Organic Compounds by SW846 8260B			VC10								
Prepared by method SW846 5035A Soil (low level)					Initial weight: 7.48 g						
71-43-2	Benzene	BRL		µg/kg dry	4.3	1	SW846 8260B	02-Jul-08	03-Jul-08	8070041	JLD
104-51-8	n-Butylbenzene	BRL		µg/kg dry	4.3	1	"	"	"	"	"
135-98-8	sec-Butylbenzene	BRL		µg/kg dry	4.3	1	"	"	"	"	"
98-06-6	tert-Butylbenzene	BRL		µg/kg dry	4.3	1	"	"	"	"	"
100-41-4	Ethylbenzene	BRL		µg/kg dry	4.3	1	"	"	"	"	"
98-82-8	Isopropylbenzene	BRL		µg/kg dry	4.3	1	"	"	"	"	"
99-87-6	4-Isopropyltoluene	BRL		µg/kg dry	4.3	1	"	"	"	"	"
1634-04-4	Methyl tert-butyl ether	BRL		µg/kg dry	4.3	1	"	"	"	"	"
91-20-3	Naphthalene	BRL		µg/kg dry	4.3	1	"	"	"	"	"
103-65-1	n-Propylbenzene	BRL		µg/kg dry	4.3	1	"	"	"	"	"
108-88-3	Toluene	BRL		µg/kg dry	4.3	1	"	"	"	"	"
95-63-6	1,2,4-Trimethylbenzene	BRL		µg/kg dry	4.3	1	"	"	"	"	"
108-67-8	1,3,5-Trimethylbenzene	BRL		µg/kg dry	4.3	1	"	"	"	"	"
179601-23-1	m,p-Xylene	BRL		µg/kg dry	8.6	1	"	"	"	"	"
95-47-6	o-Xylene	BRL		µg/kg dry	4.3	1	"	"	"	"	"
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*100*		*70-130 %*			"	"	"	"	"
2037-26-5	*Toluene-d8*	*103*		*70-130 %*			"	"	"	"	"
17060-07-0	*1,2-Dichloroethane-d4*	*125*		*70-130 %*			"	"	"	"	"
1868-53-7	*Dibromofluoromethane*	*109*		*70-130 %*			"	"	"	"	"
General Chemistry Parameters											
	% Solids	89.7		%		1	SM2540 G Mod.	30-Jun-08	30-Jun-08	8062308	JB

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-16 10-12.5' SA80749-10	03-273-35E	Soil	26-Jun-08 00:00	27-Jun-08

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Analyst
Volatile Organic Compounds											
	VOC Extraction	Field extracted		N/A		1	VOC Soil Extraction	28-Jun-08	28-Jun-08	8062228	DN
Volatile Organic Compounds by SW846 8260B						Initial weight: 18.28 g					
Prepared by method SW846 5030 Soil (high level)											
71-43-2	Benzene	BRL		µg/kg dry	550	500	SW846 8260B	30-Jun-08	01-Jul-08	8062316	ADU
104-51-8	n-Butylbenzene	24,800		µg/kg dry	550	500	"	"	"	"	"
135-98-8	sec-Butylbenzene	6,500		µg/kg dry	550	500	"	"	"	"	"
98-06-6	tert-Butylbenzene	BRL		µg/kg dry	550	500	"	"	"	"	"
100-41-4	Ethylbenzene	161,000	E	µg/kg dry	550	500	"	"	"	"	"
98-82-8	Isopropylbenzene	15,700		µg/kg dry	550	500	"	"	"	"	"
99-87-6	4-Isopropyltoluene	4,370		µg/kg dry	550	500	"	"	"	"	"
1634-04-4	Methyl tert-butyl ether	BRL		µg/kg dry	550	500	"	"	"	"	"
91-20-3	Naphthalene	65,700		µg/kg dry	550	500	"	"	"	"	"
103-65-1	n-Propylbenzene	61,700		µg/kg dry	550	500	"	"	"	"	"
108-88-3	Toluene	33,200		µg/kg dry	550	500	"	"	"	"	"
95-63-6	1,2,4-Trimethylbenzene	410,000	E	µg/kg dry	550	500	"	"	"	"	"
108-67-8	1,3,5-Trimethylbenzene	123,000	E	µg/kg dry	550	500	"	"	"	"	"
179601-23-1	m,p-Xylene	633,000	E	µg/kg dry	1100	500	"	"	"	"	"
95-47-6	o-Xylene	197,000	E	µg/kg dry	550	500	"	"	"	"	"
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*110*		*70-130 %*			"	"	"	"	"
2037-26-5	*Toluene-d8*	*105*		*70-130 %*			"	"	"	"	"
17060-07-0	*1,2-Dichloroethane-d4*	*96*		*70-130 %*			"	"	"	"	"
1868-53-7	*Dibromofluoromethane*	*99*		*70-130 %*			"	"	"	"	"
Re-analysis of Volatile Organic Compounds by SW846 8260B											
71-43-2	Benzene	BRL		µg/kg dry	5500	5000	SW846 8260B	03-Jul-08	03-Jul-08	8070290	ADU
104-51-8	n-Butylbenzene	31,100		µg/kg dry	5500	5000	"	"	"	"	"
135-98-8	sec-Butylbenzene	15,800		µg/kg dry	5500	5000	"	"	"	"	"
98-06-6	tert-Butylbenzene	BRL		µg/kg dry	5500	5000	"	"	"	"	"
100-41-4	Ethylbenzene	156,000		µg/kg dry	5500	5000	"	"	"	"	"
98-82-8	Isopropylbenzene	15,700		µg/kg dry	5500	5000	"	"	"	"	"
99-87-6	4-Isopropyltoluene	10,900		µg/kg dry	5500	5000	"	"	"	"	"
1634-04-4	Methyl tert-butyl ether	BRL		µg/kg dry	5500	5000	"	"	"	"	"
91-20-3	Naphthalene	76,000		µg/kg dry	5500	5000	"	"	"	"	"
103-65-1	n-Propylbenzene	70,600		µg/kg dry	5500	5000	"	"	"	"	"
108-88-3	Toluene	32,300		µg/kg dry	5500	5000	"	"	"	"	"
95-63-6	1,2,4-Trimethylbenzene	410,000		µg/kg dry	5500	5000	"	"	"	"	"
108-67-8	1,3,5-Trimethylbenzene	131,000		µg/kg dry	5500	5000	"	"	"	"	"
179601-23-1	m,p-Xylene	647,000		µg/kg dry	11000	5000	"	"	"	"	"
95-47-6	o-Xylene	191,000		µg/kg dry	5500	5000	"	"	"	"	"
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*104*		*70-130 %*			"	"	"	"	"
2037-26-5	*Toluene-d8*	*103*		*70-130 %*			"	"	"	"	"
17060-07-0	*1,2-Dichloroethane-d4*	*97*		*70-130 %*			"	"	"	"	"
1868-53-7	*Dibromofluoromethane*	*99*		*70-130 %*			"	"	"	"	"
Extractable Petroleum Hydrocarbons											
Extractable Total Petroleum Hydrocarbons											
Prepared by method SW846 3550B											
8006-61-9	Gasoline	Calculated as		mg/kg dry	42.2	1	+CT ETPH	02-Jul-08	03-Jul-08	8070186	SHM
68476-30-2	Fuel Oil #2	BRL		mg/kg dry	42.2	1	"	"	"	"	"
68476-31-3	Fuel Oil #4	BRL		mg/kg dry	42.2	1	"	"	"	"	"
68553-00-4	Fuel Oil #6	BRL		mg/kg dry	42.2	1	"	"	"	"	"
M09800000	Motor Oil	BRL		mg/kg dry	42.2	1	"	"	"	"	"

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* Reportable Detection Limit BRL = Below Reporting Limit

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-16 10-12.5' SA80749-10	03-273-35E	Soil	26-Jun-08 00:00	27-Jun-08

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*
Extractable Petroleum Hydrocarbons											
Extractable Total Petroleum Hydrocarbons											
Prepared by method SW846 3550B											
J00100000	Aviation Fuel	BRL		mg/kg dry	42.2	1	+CT ETPH	02-Jul-08	03-Jul-08	8070186	SHM
	Unidentified	1,190		mg/kg dry	42.2	1	"	"	"	"	"
	Other Oil	BRL		mg/kg dry	42.2	1	"	"	"	"	"
	Total Petroleum Hydrocarbons	1,190		mg/kg dry	42.2	1	"	"	"	"	"
	C9-C36 Aliphatic Hydrocarbons	1,190		mg/kg dry	42.2	1	"	"	"	"	"
Surrogate recoveries:											
3386-33-2	*1-Chlorooctadecane*	*51*		*50-150 %*			"	"	"	"	"
General Chemistry Parameters											
	% Solids	86.7		%		1	SM2540 G Mod.	30-Jun-08	30-Jun-08	8062308	JB

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-16 15-17.5' SA80749-11	03-273-35E	Soil	26-Jun-08 00:00	27-Jun-08

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Analyst
Volatile Organic Compounds											
	VOC Extraction	Field extracted		N/A		1	VOC Soil Extraction	28-Jun-08	28-Jun-08	8062228	DN
Volatile Organic Compounds by SW846 8260B			VC10								
Prepared by method SW846 5035A Soil (low level)					Initial weight: 7.82 g						
71-43-2	Benzene	6.3		µg/kg dry	4.2	1	SW846 8260B	02-Jul-08	03-Jul-08	8070041	JLD
104-51-8	n-Butylbenzene	9.5		µg/kg dry	4.2	1	"	"	"	"	"
135-98-8	sec-Butylbenzene	BRL		µg/kg dry	4.2	1	"	"	"	"	"
98-06-6	tert-Butylbenzene	BRL		µg/kg dry	4.2	1	"	"	"	"	"
100-41-4	Ethylbenzene	157		µg/kg dry	4.2	1	"	"	"	"	"
98-82-8	Isopropylbenzene	8.8		µg/kg dry	4.2	1	"	"	"	"	"
99-87-6	4-Isopropyltoluene	BRL		µg/kg dry	4.2	1	"	"	"	"	"
1634-04-4	Methyl tert-butyl ether	BRL		µg/kg dry	4.2	1	"	"	"	"	"
91-20-3	Naphthalene	168		µg/kg dry	4.2	1	"	"	"	"	"
103-65-1	n-Propylbenzene	26.6		µg/kg dry	4.2	1	"	"	"	"	"
108-88-3	Toluene	50.1		µg/kg dry	4.2	1	"	"	"	"	"
95-63-6	1,2,4-Trimethylbenzene	309	E	µg/kg dry	4.2	1	"	"	"	"	"
108-67-8	1,3,5-Trimethylbenzene	90.6		µg/kg dry	4.2	1	"	"	"	"	"
179601-23-1	m,p-Xylene	644	E	µg/kg dry	8.4	1	"	"	"	"	"
95-47-6	o-Xylene	121		µg/kg dry	4.2	1	"	"	"	"	"
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*102*		*70-130 %*			"	"	"	"	"
2037-26-5	*Toluene-d8*	*104*		*70-130 %*			"	"	"	"	"
17060-07-0	*1,2-Dichloroethane-d4*	*120*		*70-130 %*			"	"	"	"	"
1868-53-7	*Dibromofluoromethane*	*105*		*70-130 %*			"	"	"	"	"
Re-analysis of Volatile Organic Compounds by SW846 8260B											
71-43-2	Benzene	BRL		µg/kg dry	275	200	SW846 8260B	03-Jul-08	03-Jul-08	8070290	ADU
104-51-8	n-Butylbenzene	BRL		µg/kg dry	275	200	"	"	"	"	"
135-98-8	sec-Butylbenzene	BRL		µg/kg dry	275	200	"	"	"	"	"
98-06-6	tert-Butylbenzene	BRL		µg/kg dry	275	200	"	"	"	"	"
100-41-4	Ethylbenzene	860		µg/kg dry	275	200	"	"	"	"	"
98-82-8	Isopropylbenzene	BRL		µg/kg dry	275	200	"	"	"	"	"
99-87-6	4-Isopropyltoluene	BRL		µg/kg dry	275	200	"	"	"	"	"
1634-04-4	Methyl tert-butyl ether	BRL		µg/kg dry	275	200	"	"	"	"	"
91-20-3	Naphthalene	698		µg/kg dry	275	200	"	"	"	"	"
103-65-1	n-Propylbenzene	800		µg/kg dry	275	200	"	"	"	"	"
108-88-3	Toluene	BRL		µg/kg dry	275	200	"	"	"	"	"
95-63-6	1,2,4-Trimethylbenzene	2,300		µg/kg dry	275	200	"	"	"	"	"
108-67-8	1,3,5-Trimethylbenzene	1,060		µg/kg dry	275	200	"	"	"	"	"
179601-23-1	m,p-Xylene	3,320		µg/kg dry	550	200	"	"	"	"	"
95-47-6	o-Xylene	934		µg/kg dry	275	200	"	"	"	"	"
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*107*		*70-130 %*			"	"	"	"	"
2037-26-5	*Toluene-d8*	*104*		*70-130 %*			"	"	"	"	"
17060-07-0	*1,2-Dichloroethane-d4*	*100*		*70-130 %*			"	"	"	"	"
1868-53-7	*Dibromofluoromethane*	*99*		*70-130 %*			"	"	"	"	"
General Chemistry Parameters											
	% Solids	89.1		%		1	SM2540 G Mod.	30-Jun-08	30-Jun-08	8062308	JB

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-12 7.5-10' SA80749-12	03-273-35E	Soil	26-Jun-08 00:00	27-Jun-08

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*
Volatile Organic Compounds											
	VOC Extraction	Field extracted		N/A		1	VOC Soil Extraction	28-Jun-08	28-Jun-08	8062228	DN
Volatile Organic Compounds by SW846 8260B						Initial weight: 3.96 g					
Prepared by method SW846 5035A Soil (low level)											
71-43-2	Benzene	BRL		µg/kg dry	7.2	1	SW846 8260B	02-Jul-08	03-Jul-08	8070041	JLD
104-51-8	n-Butylbenzene	BRL		µg/kg dry	7.2	1	"	"	"	"	"
135-98-8	sec-Butylbenzene	BRL		µg/kg dry	7.2	1	"	"	"	"	"
98-06-6	tert-Butylbenzene	BRL		µg/kg dry	7.2	1	"	"	"	"	"
100-41-4	Ethylbenzene	BRL		µg/kg dry	7.2	1	"	"	"	"	"
98-82-8	Isopropylbenzene	BRL		µg/kg dry	7.2	1	"	"	"	"	"
99-87-6	4-Isopropyltoluene	BRL		µg/kg dry	7.2	1	"	"	"	"	"
1634-04-4	Methyl tert-butyl ether	BRL		µg/kg dry	7.2	1	"	"	"	"	"
91-20-3	Naphthalene	BRL		µg/kg dry	7.2	1	"	"	"	"	"
103-65-1	n-Propylbenzene	BRL		µg/kg dry	7.2	1	"	"	"	"	"
108-88-3	Toluene	BRL		µg/kg dry	7.2	1	"	"	"	"	"
95-63-6	1,2,4-Trimethylbenzene	BRL		µg/kg dry	7.2	1	"	"	"	"	"
108-67-8	1,3,5-Trimethylbenzene	BRL		µg/kg dry	7.2	1	"	"	"	"	"
179601-23-1	m,p-Xylene	BRL		µg/kg dry	14.5	1	"	"	"	"	"
95-47-6	o-Xylene	BRL		µg/kg dry	7.2	1	"	"	"	"	"
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*103*		*70-130 %*			"	"	"	"	"
2037-26-5	*Toluene-d8*	*103*		*70-130 %*			"	"	"	"	"
17060-07-0	*1,2-Dichloroethane-d4*	*121*		*70-130 %*			"	"	"	"	"
1868-53-7	*Dibromofluoromethane*	*108*		*70-130 %*			"	"	"	"	"
General Chemistry Parameters											
	% Solids	92.5		%		1	SM2540 G Mod.	30-Jun-08	30-Jun-08	8062308	JB

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* Reportable Detection Limit BRL = Below Reporting Limit

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-12 10-12.5' SA80749-13	03-273-35E	Soil	26-Jun-08 00:00	27-Jun-08

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Analyst
Volatile Organic Compounds											
	VOC Extraction	Field extracted		N/A		1	VOC Soil Extraction	28-Jun-08	28-Jun-08	8062228	DN
Volatile Organic Compounds by SW846 8260B			VC10			Initial weight: 20.91 g					
Prepared by method SW846 5030 Soil (high level)											
71-43-2	Benzene	17,400		µg/kg dry	464	500	SW846 8260B	30-Jun-08	01-Jul-08	8062316	ADU
104-51-8	n-Butylbenzene	15,300		µg/kg dry	464	500	"	"	"	"	"
135-98-8	sec-Butylbenzene	5,010		µg/kg dry	464	500	"	"	"	"	"
98-06-6	tert-Butylbenzene	BRL		µg/kg dry	464	500	"	"	"	"	"
100-41-4	Ethylbenzene	118,000	E	µg/kg dry	464	500	"	"	"	"	"
98-82-8	Isopropylbenzene	10,200		µg/kg dry	464	500	"	"	"	"	"
99-87-6	4-Isopropyltoluene	3,870		µg/kg dry	464	500	"	"	"	"	"
1634-04-4	Methyl tert-butyl ether	BRL		µg/kg dry	464	500	"	"	"	"	"
91-20-3	Naphthalene	40,900		µg/kg dry	464	500	"	"	"	"	"
103-65-1	n-Propylbenzene	36,000		µg/kg dry	464	500	"	"	"	"	"
108-88-3	Toluene	259,000	E	µg/kg dry	464	500	"	"	"	"	"
95-63-6	1,2,4-Trimethylbenzene	298,000	E	µg/kg dry	464	500	"	"	"	"	"
108-67-8	1,3,5-Trimethylbenzene	104,000	E	µg/kg dry	464	500	"	"	"	"	"
179601-23-1	m,p-Xylene	519,000	E	µg/kg dry	929	500	"	"	"	"	"
95-47-6	o-Xylene	207,000	E	µg/kg dry	464	500	"	"	"	"	"
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*109*		*70-130 %*			"	"	"	"	"
2037-26-5	*Toluene-d8*	*104*		*70-130 %*			"	"	"	"	"
17060-07-0	*1,2-Dichloroethane-d4*	*97*		*70-130 %*			"	"	"	"	"
1868-53-7	*Dibromofluoromethane*	*97*		*70-130 %*			"	"	"	"	"
Re-analysis of Volatile Organic Compounds by SW846 8260B											
71-43-2	Benzene	14,900		µg/kg dry	4640	5000	SW846 8260B	03-Jul-08	03-Jul-08	8070290	ADU
104-51-8	n-Butylbenzene	19,700		µg/kg dry	4640	5000	"	"	"	"	"
135-98-8	sec-Butylbenzene	BRL		µg/kg dry	4640	5000	"	"	"	"	"
98-06-6	tert-Butylbenzene	BRL		µg/kg dry	4640	5000	"	"	"	"	"
100-41-4	Ethylbenzene	106,000		µg/kg dry	4640	5000	"	"	"	"	"
98-82-8	Isopropylbenzene	9,840		µg/kg dry	4640	5000	"	"	"	"	"
99-87-6	4-Isopropyltoluene	BRL		µg/kg dry	4640	5000	"	"	"	"	"
1634-04-4	Methyl tert-butyl ether	BRL		µg/kg dry	4640	5000	"	"	"	"	"
91-20-3	Naphthalene	54,300		µg/kg dry	4640	5000	"	"	"	"	"
103-65-1	n-Propylbenzene	42,500		µg/kg dry	4640	5000	"	"	"	"	"
108-88-3	Toluene	256,000		µg/kg dry	4640	5000	"	"	"	"	"
95-63-6	1,2,4-Trimethylbenzene	302,000		µg/kg dry	4640	5000	"	"	"	"	"
108-67-8	1,3,5-Trimethylbenzene	107,000		µg/kg dry	4640	5000	"	"	"	"	"
179601-23-1	m,p-Xylene	501,000		µg/kg dry	9290	5000	"	"	"	"	"
95-47-6	o-Xylene	192,000		µg/kg dry	4640	5000	"	"	"	"	"
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*111*		*70-130 %*			"	"	"	"	"
2037-26-5	*Toluene-d8*	*114*		*70-130 %*			"	"	"	"	"
17060-07-0	*1,2-Dichloroethane-d4*	*99*		*70-130 %*			"	"	"	"	"
1868-53-7	*Dibromofluoromethane*	*96*		*70-130 %*			"	"	"	"	"
Extractable Petroleum Hydrocarbons											
Extractable Total Petroleum Hydrocarbons											
Prepared by method SW846 3550B											
8006-61-9	Gasoline	Calculated as		mg/kg dry	42.9	1	+CT ETPH	02-Jul-08	03-Jul-08	8070186	SHM
68476-30-2	Fuel Oil #2	BRL		mg/kg dry	42.9	1	"	"	"	"	"
68476-31-3	Fuel Oil #4	BRL		mg/kg dry	42.9	1	"	"	"	"	"
68553-00-4	Fuel Oil #6	BRL		mg/kg dry	42.9	1	"	"	"	"	"
M09800000	Motor Oil	BRL		mg/kg dry	42.9	1	"	"	"	"	"

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* Reportable Detection Limit BRL = Below Reporting Limit

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-12 10-12.5' SA80749-13	03-273-35E	Soil	26-Jun-08 00:00	27-Jun-08

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*
Extractable Petroleum Hydrocarbons											
Extractable Total Petroleum Hydrocarbons											
Prepared by method SW846 3550B											
J00100000	Aviation Fuel	BRL		mg/kg dry	42.9	1	+CT ETPH	02-Jul-08	03-Jul-08	8070186	SHM
	Unidentified	1,730		mg/kg dry	42.9	1	"	"	"	"	"
	Other Oil	BRL		mg/kg dry	42.9	1	"	"	"	"	"
	Total Petroleum Hydrocarbons	1,730		mg/kg dry	42.9	1	"	"	"	"	"
	C9-C36 Aliphatic Hydrocarbons	1,730		mg/kg dry	42.9	1	"	"	"	"	"
Surrogate recoveries:											
3386-33-2	*1-Chlorooctadecane*	*81*		*50-150 %*			"	"	"	"	"
General Chemistry Parameters											
	% Solids	89.0		%		1	SM2540 G Mod.	30-Jun-08	30-Jun-08	8062308	JB

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-12 15-17.5' SA80749-14	03-273-35E	Soil	26-Jun-08 00:00	27-Jun-08

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Analyst
Volatile Organic Compounds											
	VOC Extraction	Field extracted		N/A		1	VOC Soil Extraction	28-Jun-08	28-Jun-08	8062228	DN
Volatile Organic Compounds by SW846 8260B			VC10			Initial weight: 18.89 g					
Prepared by method SW846 5030 Soil (high level)											
71-43-2	Benzene	483		µg/kg dry	245	200	SW846 8260B	03-Jul-08	03-Jul-08	8070290	ADU
104-51-8	n-Butylbenzene	1,900		µg/kg dry	245	200	"	"	"	"	"
135-98-8	sec-Butylbenzene	799		µg/kg dry	245	200	"	"	"	"	"
98-06-6	tert-Butylbenzene	BRL		µg/kg dry	245	200	"	"	"	"	"
100-41-4	Ethylbenzene	2,340		µg/kg dry	245	200	"	"	"	"	"
98-82-8	Isopropylbenzene	336		µg/kg dry	245	200	"	"	"	"	"
99-87-6	4-Isopropyltoluene	1,480		µg/kg dry	245	200	"	"	"	"	"
1634-04-4	Methyl tert-butyl ether	BRL		µg/kg dry	245	200	"	"	"	"	"
91-20-3	Naphthalene	4,220		µg/kg dry	245	200	"	"	"	"	"
103-65-1	n-Propylbenzene	1,500		µg/kg dry	245	200	"	"	"	"	"
108-88-3	Toluene	5,140		µg/kg dry	245	200	"	"	"	"	"
95-63-6	1,2,4-Trimethylbenzene	26,000		µg/kg dry	245	200	"	"	"	"	"
108-67-8	1,3,5-Trimethylbenzene	10,100		µg/kg dry	245	200	"	"	"	"	"
179601-23-1	m,p-Xylene	14,600		µg/kg dry	490	200	"	"	"	"	"
95-47-6	o-Xylene	6,570		µg/kg dry	245	200	"	"	"	"	"
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*107*		*70-130 %*			"	"	"	"	"
2037-26-5	*Toluene-d8*	*106*		*70-130 %*			"	"	"	"	"
17060-07-0	*1,2-Dichloroethane-d4*	*100*		*70-130 %*			"	"	"	"	"
1868-53-7	*Dibromofluoromethane*	*99*		*70-130 %*			"	"	"	"	"
General Chemistry Parameters											
	% Solids	80.6		%		1	SM2540 G Mod.	30-Jun-08	30-Jun-08	8062308	JB

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* Reportable Detection Limit BRL = Below Reporting Limit

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-15 7.5-10' SA80749-15	03-273-35E	Soil	26-Jun-08 00:00	27-Jun-08

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*
Volatile Organic Compounds											
	VOC Extraction	Field extracted		N/A		1	VOC Soil Extraction	28-Jun-08	28-Jun-08	8062228	DN
Volatile Organic Compounds by SW846 8260B			VC10								
Prepared by method SW846 5035A Soil (low level)						Initial weight: 7.31 g					
71-43-2	Benzene	BRL		µg/kg dry	3.8	1	SW846 8260B	02-Jul-08	03-Jul-08	8070041	JLD
104-51-8	n-Butylbenzene	BRL		µg/kg dry	3.8	1	"	"	"	"	"
135-98-8	sec-Butylbenzene	BRL		µg/kg dry	3.8	1	"	"	"	"	"
98-06-6	tert-Butylbenzene	BRL		µg/kg dry	3.8	1	"	"	"	"	"
100-41-4	Ethylbenzene	BRL		µg/kg dry	3.8	1	"	"	"	"	"
98-82-8	Isopropylbenzene	BRL		µg/kg dry	3.8	1	"	"	"	"	"
99-87-6	4-Isopropyltoluene	BRL		µg/kg dry	3.8	1	"	"	"	"	"
1634-04-4	Methyl tert-butyl ether	BRL		µg/kg dry	3.8	1	"	"	"	"	"
91-20-3	Naphthalene	BRL		µg/kg dry	3.8	1	"	"	"	"	"
103-65-1	n-Propylbenzene	BRL		µg/kg dry	3.8	1	"	"	"	"	"
108-88-3	Toluene	BRL		µg/kg dry	3.8	1	"	"	"	"	"
95-63-6	1,2,4-Trimethylbenzene	BRL		µg/kg dry	3.8	1	"	"	"	"	"
108-67-8	1,3,5-Trimethylbenzene	BRL		µg/kg dry	3.8	1	"	"	"	"	"
179601-23-1	m,p-Xylene	BRL		µg/kg dry	7.5	1	"	"	"	"	"
95-47-6	o-Xylene	BRL		µg/kg dry	3.8	1	"	"	"	"	"
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*103*		*70-130 %*			"	"	"	"	"
2037-26-5	*Toluene-d8*	*104*		*70-130 %*			"	"	"	"	"
17060-07-0	*1,2-Dichloroethane-d4*	*121*		*70-130 %*			"	"	"	"	"
1868-53-7	*Dibromofluoromethane*	*103*		*70-130 %*			"	"	"	"	"
General Chemistry Parameters											
	% Solids	96.2		%		1	SM2540 G Mod.	30-Jun-08	30-Jun-08	8062308	JB

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-15 10-12.5' SA80749-16	03-273-35E	Soil	26-Jun-08 00:00	27-Jun-08

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Analyst
Volatile Organic Compounds											
	VOC Extraction	Field extracted		N/A		1	VOC Soil Extraction	28-Jun-08	28-Jun-08	8062228	DN
Volatile Organic Compounds by SW846 8260B											
Prepared by method SW846 5030 Soil (high level)					Initial weight: 16.2 g						
71-43-2	Benzene	BRL		µg/kg dry	624	500	SW846 8260B	30-Jun-08	01-Jul-08	8062316	ADU
104-51-8	n-Butylbenzene	6,270		µg/kg dry	624	500	"	"	"	"	"
135-98-8	sec-Butylbenzene	2,470		µg/kg dry	624	500	"	"	"	"	"
98-06-6	tert-Butylbenzene	BRL		µg/kg dry	624	500	"	"	"	"	"
100-41-4	Ethylbenzene	39,000		µg/kg dry	624	500	"	"	"	"	"
98-82-8	Isopropylbenzene	3,980		µg/kg dry	624	500	"	"	"	"	"
99-87-6	4-Isopropyltoluene	1,710		µg/kg dry	624	500	"	"	"	"	"
1634-04-4	Methyl tert-butyl ether	BRL		µg/kg dry	624	500	"	"	"	"	"
91-20-3	Naphthalene	20,000		µg/kg dry	624	500	"	"	"	"	"
103-65-1	n-Propylbenzene	15,700		µg/kg dry	624	500	"	"	"	"	"
108-88-3	Toluene	17,500		µg/kg dry	624	500	"	"	"	"	"
95-63-6	1,2,4-Trimethylbenzene	106,000		µg/kg dry	624	500	"	"	"	"	"
108-67-8	1,3,5-Trimethylbenzene	31,600		µg/kg dry	624	500	"	"	"	"	"
179601-23-1	m,p-Xylene	179,000		µg/kg dry	1250	500	"	"	"	"	"
95-47-6	o-Xylene	65,100		µg/kg dry	624	500	"	"	"	"	"
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*104*		*70-130 %*			"	"	"	"	"
2037-26-5	*Toluene-d8*	*102*		*70-130 %*			"	"	"	"	"
17060-07-0	*1,2-Dichloroethane-d4*	*96*		*70-130 %*			"	"	"	"	"
1868-53-7	*Dibromofluoromethane*	*99*		*70-130 %*			"	"	"	"	"
Extractable Petroleum Hydrocarbons											
Extractable Total Petroleum Hydrocarbons											
Prepared by method SW846 3550B											
8006-61-9	Gasoline	Calculated as		mg/kg dry	36.5	1	+CT ETPH	02-Jul-08	03-Jul-08	8070186	SHM
68476-30-2	Fuel Oil #2	BRL		mg/kg dry	36.5	1	"	"	"	"	"
68476-31-3	Fuel Oil #4	BRL		mg/kg dry	36.5	1	"	"	"	"	"
68553-00-4	Fuel Oil #6	BRL		mg/kg dry	36.5	1	"	"	"	"	"
M09800000	Motor Oil	BRL		mg/kg dry	36.5	1	"	"	"	"	"
J00100000	Aviation Fuel	BRL		mg/kg dry	36.5	1	"	"	"	"	"
	Unidentified	577		mg/kg dry	36.5	1	"	"	"	"	"
	Other Oil	BRL		mg/kg dry	36.5	1	"	"	"	"	"
	Total Petroleum Hydrocarbons	577		mg/kg dry	36.5	1	"	"	"	"	"
	C9-C36 Aliphatic Hydrocarbons	577		mg/kg dry	36.5	1	"	"	"	"	"
Surrogate recoveries:											
3386-33-2	*1-Chlorooctadecane*	*62*		*50-150 %*			"	"	"	"	"
General Chemistry Parameters											
	% Solids	85.7		%		1	SM2540 G Mod.	30-Jun-08	30-Jun-08	8062308	JB

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* Reportable Detection Limit BRL = Below Reporting Limit

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-15 15.17.5' SA80749-17	03-273-35E	Soil	26-Jun-08 00:00	27-Jun-08

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*
Volatile Organic Compounds											
	VOC Extraction	Field extracted		N/A		1	VOC Soil Extraction	28-Jun-08	28-Jun-08	8062228	DN
Volatile Organic Compounds by SW846 8260B											
Prepared by method SW846 5035A Soil (low level)					Initial weight: 5.54 g						
71-43-2	Benzene	BRL		µg/kg dry	10.3	1	SW846 8260B	02-Jul-08	03-Jul-08	8070041	JLD
104-51-8	n-Butylbenzene	BRL		µg/kg dry	10.3	1	"	"	"	"	"
135-98-8	sec-Butylbenzene	BRL		µg/kg dry	10.3	1	"	"	"	"	"
98-06-6	tert-Butylbenzene	BRL		µg/kg dry	10.3	1	"	"	"	"	"
100-41-4	Ethylbenzene	23.7		µg/kg dry	10.3	1	"	"	"	"	"
98-82-8	Isopropylbenzene	BRL		µg/kg dry	10.3	1	"	"	"	"	"
99-87-6	4-Isopropyltoluene	BRL		µg/kg dry	10.3	1	"	"	"	"	"
1634-04-4	Methyl tert-butyl ether	BRL		µg/kg dry	10.3	1	"	"	"	"	"
91-20-3	Naphthalene	11.3		µg/kg dry	10.3	1	"	"	"	"	"
103-65-1	n-Propylbenzene	BRL		µg/kg dry	10.3	1	"	"	"	"	"
108-88-3	Toluene	11.4		µg/kg dry	10.3	1	"	"	"	"	"
95-63-6	1,2,4-Trimethylbenzene	52.5		µg/kg dry	10.3	1	"	"	"	"	"
108-67-8	1,3,5-Trimethylbenzene	15.9		µg/kg dry	10.3	1	"	"	"	"	"
179601-23-1	m,p-Xylene	95.1		µg/kg dry	20.6	1	"	"	"	"	"
95-47-6	o-Xylene	35.0		µg/kg dry	10.3	1	"	"	"	"	"
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*107*		*70-130 %*			"	"	"	"	"
2037-26-5	*Toluene-d8*	*103*		*70-130 %*			"	"	"	"	"
17060-07-0	*1,2-Dichloroethane-d4*	*114*		*70-130 %*			"	"	"	"	"
1868-53-7	*Dibromofluoromethane*	*106*		*70-130 %*			"	"	"	"	"
General Chemistry Parameters											
	% Solids	62.1		%		1	SM2540 G Mod.	30-Jun-08	30-Jun-08	8062308	JB

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-14 7.5-10' SA80749-18	03-273-35E	Soil	26-Jun-08 00:00	27-Jun-08

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*
Volatile Organic Compounds											
	VOC Extraction	Field extracted		N/A		1	VOC Soil Extraction	28-Jun-08	28-Jun-08	8062228	DN
Volatile Organic Compounds by SW846 8260B			VC10								
Prepared by method SW846 5035A Soil (low level)					Initial weight: 6.14 g						
71-43-2	Benzene	BRL		µg/kg dry	5.6	1	SW846 8260B	03-Jul-08	03-Jul-08	8070291	JLD
104-51-8	n-Butylbenzene	BRL		µg/kg dry	5.6	1	"	"	"	"	"
135-98-8	sec-Butylbenzene	BRL		µg/kg dry	5.6	1	"	"	"	"	"
98-06-6	tert-Butylbenzene	BRL		µg/kg dry	5.6	1	"	"	"	"	"
100-41-4	Ethylbenzene	BRL		µg/kg dry	5.6	1	"	"	"	"	"
98-82-8	Isopropylbenzene	BRL		µg/kg dry	5.6	1	"	"	"	"	"
99-87-6	4-Isopropyltoluene	BRL		µg/kg dry	5.6	1	"	"	"	"	"
1634-04-4	Methyl tert-butyl ether	BRL		µg/kg dry	5.6	1	"	"	"	"	"
91-20-3	Naphthalene	BRL		µg/kg dry	5.6	1	"	"	"	"	"
103-65-1	n-Propylbenzene	BRL		µg/kg dry	5.6	1	"	"	"	"	"
108-88-3	Toluene	BRL		µg/kg dry	5.6	1	"	"	"	"	"
95-63-6	1,2,4-Trimethylbenzene	BRL		µg/kg dry	5.6	1	"	"	"	"	"
108-67-8	1,3,5-Trimethylbenzene	BRL		µg/kg dry	5.6	1	"	"	"	"	"
179601-23-1	m,p-Xylene	BRL		µg/kg dry	11.3	1	"	"	"	"	"
95-47-6	o-Xylene	BRL		µg/kg dry	5.6	1	"	"	"	"	"
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*104*		*70-130 %*			"	"	"	"	"
2037-26-5	*Toluene-d8*	*102*		*70-130 %*			"	"	"	"	"
17060-07-0	*1,2-Dichloroethane-d4*	*119*		*70-130 %*			"	"	"	"	"
1868-53-7	*Dibromofluoromethane*	*99*		*70-130 %*			"	"	"	"	"
General Chemistry Parameters											
	% Solids	85.3		%		1	SM2540 G Mod.	30-Jun-08	30-Jun-08	8062308	JB

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-14 10-12.5' SA80749-19	03-273-35E	Soil	26-Jun-08 00:00	27-Jun-08

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Analyst
Volatile Organic Compounds											
	VOC Extraction	Field extracted		N/A		1	VOC Soil Extraction	28-Jun-08	28-Jun-08	8062228	DN
Volatile Organic Compounds by SW846 8260B			VC10								
Prepared by method SW846 5030 Soil (high level)					Initial weight: 22.76 g						
71-43-2	Benzene	BRL		µg/kg dry	87.7	100	SW846 8260B	30-Jun-08	01-Jul-08	8062316	ADU
104-51-8	n-Butylbenzene	5,700		µg/kg dry	87.7	100	"	"	"	"	"
135-98-8	sec-Butylbenzene	1,140		µg/kg dry	87.7	100	"	"	"	"	"
98-06-6	tert-Butylbenzene	BRL		µg/kg dry	87.7	100	"	"	"	"	"
100-41-4	Ethylbenzene	3,380		µg/kg dry	87.7	100	"	"	"	"	"
98-82-8	Isopropylbenzene	684		µg/kg dry	87.7	100	"	"	"	"	"
99-87-6	4-Isopropyltoluene	1,140		µg/kg dry	87.7	100	"	"	"	"	"
1634-04-4	Methyl tert-butyl ether	BRL		µg/kg dry	87.7	100	"	"	"	"	"
91-20-3	Naphthalene	7,980		µg/kg dry	87.7	100	"	"	"	"	"
103-65-1	n-Propylbenzene	2,400		µg/kg dry	87.7	100	"	"	"	"	"
108-88-3	Toluene	4,710		µg/kg dry	87.7	100	"	"	"	"	"
95-63-6	1,2,4-Trimethylbenzene	57,300	E	µg/kg dry	87.7	100	"	"	"	"	"
108-67-8	1,3,5-Trimethylbenzene	19,800	E	µg/kg dry	87.7	100	"	"	"	"	"
179601-23-1	m,p-Xylene	54,600	E	µg/kg dry	175	100	"	"	"	"	"
95-47-6	o-Xylene	23,400	E	µg/kg dry	87.7	100	"	"	"	"	"
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*120*		*70-130 %*			"	"	"	"	"
2037-26-5	*Toluene-d8*	*106*		*70-130 %*			"	"	"	"	"
17060-07-0	*1,2-Dichloroethane-d4*	*94*		*70-130 %*			"	"	"	"	"
1868-53-7	*Dibromofluoromethane*	*98*		*70-130 %*			"	"	"	"	"
Re-analysis of Volatile Organic Compounds by SW846 8260B											
71-43-2	Benzene	BRL		µg/kg dry	877	1000	SW846 8260B	02-Jul-08	03-Jul-08	8070214	ADU
104-51-8	n-Butylbenzene	5,600		µg/kg dry	877	1000	"	"	"	"	"
135-98-8	sec-Butylbenzene	2,460		µg/kg dry	877	1000	"	"	"	"	"
98-06-6	tert-Butylbenzene	BRL		µg/kg dry	877	1000	"	"	"	"	"
100-41-4	Ethylbenzene	3,120		µg/kg dry	877	1000	"	"	"	"	"
98-82-8	Isopropylbenzene	BRL		µg/kg dry	877	1000	"	"	"	"	"
99-87-6	4-Isopropyltoluene	1,990		µg/kg dry	877	1000	"	"	"	"	"
1634-04-4	Methyl tert-butyl ether	BRL		µg/kg dry	877	1000	"	"	"	"	"
91-20-3	Naphthalene	10,100		µg/kg dry	877	1000	"	"	"	"	"
103-65-1	n-Propylbenzene	3,660		µg/kg dry	877	1000	"	"	"	"	"
108-88-3	Toluene	4,390		µg/kg dry	877	1000	"	"	"	"	"
95-63-6	1,2,4-Trimethylbenzene	50,500		µg/kg dry	877	1000	"	"	"	"	"
108-67-8	1,3,5-Trimethylbenzene	18,400		µg/kg dry	877	1000	"	"	"	"	"
179601-23-1	m,p-Xylene	48,400		µg/kg dry	1750	1000	"	"	"	"	"
95-47-6	o-Xylene	20,600		µg/kg dry	877	1000	"	"	"	"	"
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*105*		*70-130 %*			"	"	"	"	"
2037-26-5	*Toluene-d8*	*103*		*70-130 %*			"	"	"	"	"
17060-07-0	*1,2-Dichloroethane-d4*	*100*		*70-130 %*			"	"	"	"	"
1868-53-7	*Dibromofluoromethane*	*101*		*70-130 %*			"	"	"	"	"
Extractable Petroleum Hydrocarbons											
Extractable Total Petroleum Hydrocarbons											
Prepared by method SW846 3550B											
8006-61-9	Gasoline	BRL		mg/kg dry	41.2	1	+CT ETPH	02-Jul-08	03-Jul-08	8070186	SHM
68476-30-2	Fuel Oil #2	BRL		mg/kg dry	41.2	1	"	"	"	"	"
68476-31-3	Fuel Oil #4	BRL		mg/kg dry	41.2	1	"	"	"	"	"
68553-00-4	Fuel Oil #6	BRL		mg/kg dry	41.2	1	"	"	"	"	"
M09800000	Motor Oil	BRL		mg/kg dry	41.2	1	"	"	"	"	"

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* Reportable Detection Limit BRL = Below Reporting Limit

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-14 10-12.5' SA80749-19	03-273-35E	Soil	26-Jun-08 00:00	27-Jun-08

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*
Extractable Petroleum Hydrocarbons											
Extractable Total Petroleum Hydrocarbons											
Prepared by method SW846 3550B											
J00100000	Aviation Fuel	BRL		mg/kg dry	41.2	1	+CT ETPH	02-Jul-08	03-Jul-08	8070186	SHM
	Unidentified	92.5		mg/kg dry	41.2	1	"	"	"	"	"
	Other Oil	Calculated as		mg/kg dry	41.2	1	"	"	"	"	"
	Total Petroleum Hydrocarbons	92.5		mg/kg dry	41.2	1	"	"	"	"	"
	C9-C36 Aliphatic Hydrocarbons	92.5		mg/kg dry	41.2	1	"	"	"	"	"
Surrogate recoveries:											
3386-33-2	*1-Chlorooctadecane*	*82*		*50-150 %*			"	"	"	"	"
General Chemistry Parameters											
	% Solids	88.4		%		1	SM2540 G Mod.	30-Jun-08	30-Jun-08	8062308	JB

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-14 15.17.5' SA80749-20	03-273-35E	Soil	26-Jun-08 00:00	27-Jun-08

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*
Volatile Organic Compounds											
	VOC Extraction	Field extracted		N/A		1	VOC Soil Extraction	28-Jun-08	28-Jun-08	8062228	DN
Volatile Organic Compounds by SW846 8260B			R05			Initial weight: 14.41 g					
Prepared by method SW846 5030 Soil (high level)											
71-43-2	Benzene	BRL		µg/kg dry	134	100	SW846 8260B	02-Jul-08	02-Jul-08	8070214	ADU
104-51-8	n-Butylbenzene	626		µg/kg dry	134	100	"	"	"	"	"
135-98-8	sec-Butylbenzene	341		µg/kg dry	134	100	"	"	"	"	"
98-06-6	tert-Butylbenzene	BRL		µg/kg dry	134	100	"	"	"	"	"
100-41-4	Ethylbenzene	336		µg/kg dry	134	100	"	"	"	"	"
98-82-8	Isopropylbenzene	BRL		µg/kg dry	134	100	"	"	"	"	"
99-87-6	4-Isopropyltoluene	BRL		µg/kg dry	134	100	"	"	"	"	"
1634-04-4	Methyl tert-butyl ether	BRL		µg/kg dry	134	100	"	"	"	"	"
91-20-3	Naphthalene	1,210		µg/kg dry	134	100	"	"	"	"	"
103-65-1	n-Propylbenzene	610		µg/kg dry	134	100	"	"	"	"	"
108-88-3	Toluene	445		µg/kg dry	134	100	"	"	"	"	"
95-63-6	1,2,4-Trimethylbenzene	5,930		µg/kg dry	134	100	"	"	"	"	"
108-67-8	1,3,5-Trimethylbenzene	2,030		µg/kg dry	134	100	"	"	"	"	"
179601-23-1	m,p-Xylene	3,520		µg/kg dry	269	100	"	"	"	"	"
95-47-6	o-Xylene	1,550		µg/kg dry	134	100	"	"	"	"	"
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*109*		*70-130 %*			"	"	"	"	"
2037-26-5	*Toluene-d8*	*103*		*70-130 %*			"	"	"	"	"
17060-07-0	*1,2-Dichloroethane-d4*	*97*		*70-130 %*			"	"	"	"	"
1868-53-7	*Dibromofluoromethane*	*98*		*70-130 %*			"	"	"	"	"
General Chemistry Parameters											
	% Solids	87.1		%		1	SM2540 G Mod.	30-Jun-08	30-Jun-08	8062308	JB

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* Reportable Detection Limit BRL = Below Reporting Limit

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-14 17.5-20' SA80749-21	03-273-35E	Soil	26-Jun-08 00:00	27-Jun-08

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*
Volatile Organic Compounds											
	VOC Extraction	Field extracted		N/A		1	VOC Soil Extraction	28-Jun-08	28-Jun-08	8062228	DN
Volatile Organic Compounds by SW846 8260B			VC10			Initial weight: 6.26 g					
Prepared by method SW846 5035A Soil (low level)											
71-43-2	Benzene	BRL		µg/kg dry	6.6	1	SW846 8260B	03-Jul-08	03-Jul-08	8070291	JLD
104-51-8	n-Butylbenzene	BRL		µg/kg dry	6.6	1	"	"	"	"	"
135-98-8	sec-Butylbenzene	BRL		µg/kg dry	6.6	1	"	"	"	"	"
98-06-6	tert-Butylbenzene	BRL		µg/kg dry	6.6	1	"	"	"	"	"
100-41-4	Ethylbenzene	11.2		µg/kg dry	6.6	1	"	"	"	"	"
98-82-8	Isopropylbenzene	BRL		µg/kg dry	6.6	1	"	"	"	"	"
99-87-6	4-Isopropyltoluene	BRL		µg/kg dry	6.6	1	"	"	"	"	"
1634-04-4	Methyl tert-butyl ether	BRL		µg/kg dry	6.6	1	"	"	"	"	"
91-20-3	Naphthalene	12.6		µg/kg dry	6.6	1	"	"	"	"	"
103-65-1	n-Propylbenzene	BRL		µg/kg dry	6.6	1	"	"	"	"	"
108-88-3	Toluene	16.5		µg/kg dry	6.6	1	"	"	"	"	"
95-63-6	1,2,4-Trimethylbenzene	55.1		µg/kg dry	6.6	1	"	"	"	"	"
108-67-8	1,3,5-Trimethylbenzene	17.5		µg/kg dry	6.6	1	"	"	"	"	"
179601-23-1	m,p-Xylene	89.1		µg/kg dry	13.2	1	"	"	"	"	"
95-47-6	o-Xylene	34.2		µg/kg dry	6.6	1	"	"	"	"	"
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*104*		*70-130 %*			"	"	"	"	"
2037-26-5	*Toluene-d8*	*99*		*70-130 %*			"	"	"	"	"
17060-07-0	*1,2-Dichloroethane-d4*	*116*		*70-130 %*			"	"	"	"	"
1868-53-7	*Dibromofluoromethane*	*101*		*70-130 %*			"	"	"	"	"
General Chemistry Parameters											
	% Solids	77.5		%		1	SM2540 G Mod.	30-Jun-08	30-Jun-08	8062317	JB

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-8 7.5-10' SA80749-22	03-273-35E	Soil	26-Jun-08 00:00	27-Jun-08

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*
Volatile Organic Compounds											
	VOC Extraction	Field extracted		N/A		1	VOC Soil Extraction	28-Jun-08	28-Jun-08	8062228	DN
Volatile Organic Compounds by SW846 8260B			VC10			Initial weight: 6.74 g					
Prepared by method SW846 5035A Soil (low level)											
71-43-2	Benzene	BRL		µg/kg dry	4.7	1	SW846 8260B	03-Jul-08	03-Jul-08	8070291	JLD
104-51-8	n-Butylbenzene	BRL		µg/kg dry	4.7	1	"	"	"	"	"
135-98-8	sec-Butylbenzene	BRL		µg/kg dry	4.7	1	"	"	"	"	"
98-06-6	tert-Butylbenzene	BRL		µg/kg dry	4.7	1	"	"	"	"	"
100-41-4	Ethylbenzene	BRL		µg/kg dry	4.7	1	"	"	"	"	"
98-82-8	Isopropylbenzene	BRL		µg/kg dry	4.7	1	"	"	"	"	"
99-87-6	4-Isopropyltoluene	BRL		µg/kg dry	4.7	1	"	"	"	"	"
1634-04-4	Methyl tert-butyl ether	BRL		µg/kg dry	4.7	1	"	"	"	"	"
91-20-3	Naphthalene	BRL		µg/kg dry	4.7	1	"	"	"	"	"
103-65-1	n-Propylbenzene	BRL		µg/kg dry	4.7	1	"	"	"	"	"
108-88-3	Toluene	BRL		µg/kg dry	4.7	1	"	"	"	"	"
95-63-6	1,2,4-Trimethylbenzene	BRL		µg/kg dry	4.7	1	"	"	"	"	"
108-67-8	1,3,5-Trimethylbenzene	BRL		µg/kg dry	4.7	1	"	"	"	"	"
179601-23-1	m,p-Xylene	BRL		µg/kg dry	9.3	1	"	"	"	"	"
95-47-6	o-Xylene	BRL		µg/kg dry	4.7	1	"	"	"	"	"
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*102*		*70-130 %*			"	"	"	"	"
2037-26-5	*Toluene-d8*	*102*		*70-130 %*			"	"	"	"	"
17060-07-0	*1,2-Dichloroethane-d4*	*121*		*70-130 %*			"	"	"	"	"
1868-53-7	*Dibromofluoromethane*	*99*		*70-130 %*			"	"	"	"	"
General Chemistry Parameters											
	% Solids	90.2		%		1	SM2540 G Mod.	30-Jun-08	30-Jun-08	8062317	JB

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* Reportable Detection Limit BRL = Below Reporting Limit

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-17 7.5-10' SA80749-23	03-273-35E	Soil	26-Jun-08 00:00	27-Jun-08

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*
Volatile Organic Compounds											
	VOC Extraction	Field extracted		N/A		1	VOC Soil Extraction	28-Jun-08	28-Jun-08	8062228	DN
Volatile Organic Compounds by SW846 8260B			VC10			Initial weight: 7.63 g					
Prepared by method SW846 5035A Soil (low level)											
71-43-2	Benzene	BRL		µg/kg dry	3.8	1	SW846 8260B	02-Jul-08	02-Jul-08	8070227	eq
104-51-8	n-Butylbenzene	BRL		µg/kg dry	3.8	1	"	"	"	"	"
135-98-8	sec-Butylbenzene	BRL		µg/kg dry	3.8	1	"	"	"	"	"
98-06-6	tert-Butylbenzene	BRL		µg/kg dry	3.8	1	"	"	"	"	"
100-41-4	Ethylbenzene	BRL		µg/kg dry	3.8	1	"	"	"	"	"
98-82-8	Isopropylbenzene	BRL		µg/kg dry	3.8	1	"	"	"	"	"
99-87-6	4-Isopropyltoluene	BRL		µg/kg dry	3.8	1	"	"	"	"	"
1634-04-4	Methyl tert-butyl ether	BRL		µg/kg dry	3.8	1	"	"	"	"	"
91-20-3	Naphthalene	BRL		µg/kg dry	3.8	1	"	"	"	"	"
103-65-1	n-Propylbenzene	BRL		µg/kg dry	3.8	1	"	"	"	"	"
108-88-3	Toluene	BRL		µg/kg dry	3.8	1	"	"	"	"	"
95-63-6	1,2,4-Trimethylbenzene	BRL		µg/kg dry	3.8	1	"	"	"	"	"
108-67-8	1,3,5-Trimethylbenzene	BRL		µg/kg dry	3.8	1	"	"	"	"	"
179601-23-1	m,p-Xylene	BRL		µg/kg dry	7.7	1	"	"	"	"	"
95-47-6	o-Xylene	BRL		µg/kg dry	3.8	1	"	"	"	"	"
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*99*		*70-130 %*			"	"	"	"	"
2037-26-5	*Toluene-d8*	*105*		*70-130 %*			"	"	"	"	"
17060-07-0	*1,2-Dichloroethane-d4*	*121*		*70-130 %*			"	"	"	"	"
1868-53-7	*Dibromofluoromethane*	*112*		*70-130 %*			"	"	"	"	"
General Chemistry Parameters											
	% Solids	93.8		%		1	SM2540 G Mod.	30-Jun-08	30-Jun-08	8062317	JB

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-17 10-12.5 SA80749-24	03-273-35E	Soil	26-Jun-08 00:00	27-Jun-08

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Analyst
Volatile Organic Compounds											
	VOC Extraction	Field extracted		N/A		1	VOC Soil Extraction	28-Jun-08	28-Jun-08	8062228	DN
Volatile Organic Compounds by SW846 8260B			VC10			Initial weight: 19.55 g					
Prepared by method SW846 5030 Soil (high level)											
71-43-2	Benzene	BRL		µg/kg dry	98.7	100	SW846 8260B	02-Jul-08	02-Jul-08	8070214	ADU
104-51-8	n-Butylbenzene	1,270		µg/kg dry	98.7	100	"	"	"	"	"
135-98-8	sec-Butylbenzene	408		µg/kg dry	98.7	100	"	"	"	"	"
98-06-6	tert-Butylbenzene	BRL		µg/kg dry	98.7	100	"	"	"	"	"
100-41-4	Ethylbenzene	437		µg/kg dry	98.7	100	"	"	"	"	"
98-82-8	Isopropylbenzene	314		µg/kg dry	98.7	100	"	"	"	"	"
99-87-6	4-Isopropyltoluene	263		µg/kg dry	98.7	100	"	"	"	"	"
1634-04-4	Methyl tert-butyl ether	BRL		µg/kg dry	98.7	100	"	"	"	"	"
91-20-3	Naphthalene	727		µg/kg dry	98.7	100	"	"	"	"	"
103-65-1	n-Propylbenzene	1,660		µg/kg dry	98.7	100	"	"	"	"	"
108-88-3	Toluene	BRL		µg/kg dry	98.7	100	"	"	"	"	"
95-63-6	1,2,4-Trimethylbenzene	7,570		µg/kg dry	98.7	100	"	"	"	"	"
108-67-8	1,3,5-Trimethylbenzene	2,330		µg/kg dry	98.7	100	"	"	"	"	"
179601-23-1	m,p-Xylene	1,650		µg/kg dry	197	100	"	"	"	"	"
95-47-6	o-Xylene	408		µg/kg dry	98.7	100	"	"	"	"	"
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*106*		*70-130 %*			"	"	"	"	"
2037-26-5	*Toluene-d8*	*107*		*70-130 %*			"	"	"	"	"
17060-07-0	*1,2-Dichloroethane-d4*	*95*		*70-130 %*			"	"	"	"	"
1868-53-7	*Dibromofluoromethane*	*98*		*70-130 %*			"	"	"	"	"
Extractable Petroleum Hydrocarbons											
Extractable Total Petroleum Hydrocarbons											
Prepared by method SW846 3550B											
8006-61-9	Gasoline	BRL		mg/kg dry	44.6	1	+CT ETPH	02-Jul-08	03-Jul-08	8070186	SHM
68476-30-2	Fuel Oil #2	BRL		mg/kg dry	44.6	1	"	"	"	"	"
68476-31-3	Fuel Oil #4	BRL		mg/kg dry	44.6	1	"	"	"	"	"
68553-00-4	Fuel Oil #6	BRL		mg/kg dry	44.6	1	"	"	"	"	"
M09800000	Motor Oil	BRL		mg/kg dry	44.6	1	"	"	"	"	"
J00100000	Aviation Fuel	BRL		mg/kg dry	44.6	1	"	"	"	"	"
	Unidentified	340		mg/kg dry	44.6	1	"	"	"	"	"
	Other Oil	Calculated as		mg/kg dry	44.6	1	"	"	"	"	"
	Total Petroleum Hydrocarbons	340		mg/kg dry	44.6	1	"	"	"	"	"
	C9-C36 Aliphatic Hydrocarbons	340		mg/kg dry	44.6	1	"	"	"	"	"
Surrogate recoveries:											
3386-33-2	*1-Chlorooctadecane*	*83*		*50-150 %*			"	"	"	"	"
General Chemistry Parameters											
	% Solids	89.0		%		1	SM2540 G Mod.	30-Jun-08	30-Jun-08	8062317	JB

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* Reportable Detection Limit BRL = Below Reporting Limit

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
Duplicate SA80749-25	03-273-35E	Soil	26-Jun-08 00:00	27-Jun-08

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Analyst
Volatile Organic Compounds											
	VOC Extraction	Field extracted		N/A		1	VOC Soil Extraction	28-Jun-08	28-Jun-08	8062228	DN
Volatile Organic Compounds by SW846 8260B			R05			Initial weight: 16.6 g					
Prepared by method SW846 5030 Soil (high level)											
71-43-2	Benzene	BRL		µg/kg dry	126	100	SW846 8260B	02-Jul-08	02-Jul-08	8070214	ADU
104-51-8	n-Butylbenzene	709		µg/kg dry	126	100	"	"	"	"	"
135-98-8	sec-Butylbenzene	353		µg/kg dry	126	100	"	"	"	"	"
98-06-6	tert-Butylbenzene	BRL		µg/kg dry	126	100	"	"	"	"	"
100-41-4	Ethylbenzene	539		µg/kg dry	126	100	"	"	"	"	"
98-82-8	Isopropylbenzene	212		µg/kg dry	126	100	"	"	"	"	"
99-87-6	4-Isopropyltoluene	BRL		µg/kg dry	126	100	"	"	"	"	"
1634-04-4	Methyl tert-butyl ether	BRL		µg/kg dry	126	100	"	"	"	"	"
91-20-3	Naphthalene	1,070		µg/kg dry	126	100	"	"	"	"	"
103-65-1	n-Propylbenzene	1,160		µg/kg dry	126	100	"	"	"	"	"
108-88-3	Toluene	BRL		µg/kg dry	126	100	"	"	"	"	"
95-63-6	1,2,4-Trimethylbenzene	6,360		µg/kg dry	126	100	"	"	"	"	"
108-67-8	1,3,5-Trimethylbenzene	2,050		µg/kg dry	126	100	"	"	"	"	"
179601-23-1	m,p-Xylene	2,380		µg/kg dry	252	100	"	"	"	"	"
95-47-6	o-Xylene	602		µg/kg dry	126	100	"	"	"	"	"
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*107*		*70-130 %*			"	"	"	"	"
2037-26-5	*Toluene-d8*	*105*		*70-130 %*			"	"	"	"	"
17060-07-0	*1,2-Dichloroethane-d4*	*97*		*70-130 %*			"	"	"	"	"
1868-53-7	*Dibromofluoromethane*	*98*		*70-130 %*			"	"	"	"	"
Extractable Petroleum Hydrocarbons											
Extractable Total Petroleum Hydrocarbons											
Prepared by method SW846 3550B											
8006-61-9	Gasoline	BRL		mg/kg dry	45.0	1	+CT ETPH	02-Jul-08	03-Jul-08	8070186	SHM
68476-30-2	Fuel Oil #2	BRL		mg/kg dry	45.0	1	"	"	"	"	"
68476-31-3	Fuel Oil #4	BRL		mg/kg dry	45.0	1	"	"	"	"	"
68553-00-4	Fuel Oil #6	BRL		mg/kg dry	45.0	1	"	"	"	"	"
M09800000	Motor Oil	BRL		mg/kg dry	45.0	1	"	"	"	"	"
J00100000	Aviation Fuel	BRL		mg/kg dry	45.0	1	"	"	"	"	"
	Unidentified	51.1		mg/kg dry	45.0	1	"	"	"	"	"
	Other Oil	Calculated as		mg/kg dry	45.0	1	"	"	"	"	"
	Total Petroleum Hydrocarbons	51.1		mg/kg dry	45.0	1	"	"	"	"	"
	C9-C36 Aliphatic Hydrocarbons	51.1		mg/kg dry	45.0	1	"	"	"	"	"
Surrogate recoveries:											
3386-33-2	*1-Chlorooctadecane*	*71*		*50-150 %*			"	"	"	"	"
General Chemistry Parameters											
	% Solids	84.3		%		1	SM2540 G Mod.	30-Jun-08	30-Jun-08	8062317	JB

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* Reportable Detection Limit BRL = Below Reporting Limit

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
Trip Blank SA80749-26	03-273-35E	Methanol	26-Jun-08 00:00	27-Jun-08

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Analyst*
Volatile Organic Compounds											
Volatile Organic Compounds by SW846 8260B											
Prepared by method SW846 5030 Soil (high level)											
71-43-2	Benzene	BRL		µg/kg wet	50.0	50	SW846 8260B	02-Jul-08	03-Jul-08	8070214	ADU
104-51-8	n-Butylbenzene	BRL		µg/kg wet	50.0	50	"	"	"	"	"
135-98-8	sec-Butylbenzene	BRL		µg/kg wet	50.0	50	"	"	"	"	"
98-06-6	tert-Butylbenzene	BRL		µg/kg wet	50.0	50	"	"	"	"	"
100-41-4	Ethylbenzene	BRL		µg/kg wet	50.0	50	"	"	"	"	"
98-82-8	Isopropylbenzene	BRL		µg/kg wet	50.0	50	"	"	"	"	"
99-87-6	4-Isopropyltoluene	BRL		µg/kg wet	50.0	50	"	"	"	"	"
1634-04-4	Methyl tert-butyl ether	BRL		µg/kg wet	50.0	50	"	"	"	"	"
91-20-3	Naphthalene	BRL		µg/kg wet	50.0	50	"	"	"	"	"
103-65-1	n-Propylbenzene	BRL		µg/kg wet	50.0	50	"	"	"	"	"
108-88-3	Toluene	BRL		µg/kg wet	50.0	50	"	"	"	"	"
95-63-6	1,2,4-Trimethylbenzene	BRL		µg/kg wet	50.0	50	"	"	"	"	"
108-67-8	1,3,5-Trimethylbenzene	BRL		µg/kg wet	50.0	50	"	"	"	"	"
179601-23-1	m,p-Xylene	BRL		µg/kg wet	100	50	"	"	"	"	"
95-47-6	o-Xylene	BRL		µg/kg wet	50.0	50	"	"	"	"	"
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*108*		*70-130 %*			"	"	"	"	"
2037-26-5	*Toluene-d8*	*101*		*70-130 %*			"	"	"	"	"
17060-07-0	*1,2-Dichloroethane-d4*	*95*		*70-130 %*			"	"	"	"	"
1868-53-7	*Dibromofluoromethane*	*98*		*70-130 %*			"	"	"	"	"

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8062316 - SW846 5030 Soil (high level)										
Blank (8062316-BLK1)										
Prepared & Analyzed: 30-Jun-08										
Benzene	BRL		µg/kg wet	1.0						
n-Butylbenzene	BRL		µg/kg wet	1.0						
sec-Butylbenzene	BRL		µg/kg wet	1.0						
tert-Butylbenzene	BRL		µg/kg wet	1.0						
Ethylbenzene	BRL		µg/kg wet	1.0						
Isopropylbenzene	BRL		µg/kg wet	1.0						
4-Isopropyltoluene	BRL		µg/kg wet	1.0						
Methyl tert-butyl ether	BRL		µg/kg wet	1.0						
Naphthalene	BRL		µg/kg wet	1.0						
n-Propylbenzene	BRL		µg/kg wet	1.0						
Toluene	BRL		µg/kg wet	1.0						
1,2,4-Trimethylbenzene	BRL		µg/kg wet	1.0						
1,3,5-Trimethylbenzene	BRL		µg/kg wet	1.0						
m,p-Xylene	BRL		µg/kg wet	2.0						
o-Xylene	BRL		µg/kg wet	1.0						
Chlorobenzene	BRL		µg/kg wet	1.0						
1,1-Dichloroethene	BRL		µg/kg wet	1.0						
Trichloroethene	BRL		µg/kg wet	1.0						
Surrogate: 4-Bromofluorobenzene	*30.6*		µg/kg wet		*30.0*		*102*	*70-130*		
Surrogate: Toluene-d8	*30.4*		µg/kg wet		*30.0*		*101*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*29.0*		µg/kg wet		*30.0*		*97*	*70-130*		
Surrogate: Dibromofluoromethane	*29.8*		µg/kg wet		*30.0*		*100*	*70-130*		
LCS (8062316-BS1)										
Prepared & Analyzed: 30-Jun-08										
Benzene	20.7		µg/kg wet		20.0		104	70-130		
n-Butylbenzene	17.3		µg/kg wet		20.0		87	70-130		
sec-Butylbenzene	20.4		µg/kg wet		20.0		102	70-130		
tert-Butylbenzene	21.6		µg/kg wet		20.0		108	70-130		
Ethylbenzene	22.8		µg/kg wet		20.0		114	70-130		
Isopropylbenzene	21.4		µg/kg wet		20.0		107	70-130		
4-Isopropyltoluene	19.6		µg/kg wet		20.0		98	70-130		
Methyl tert-butyl ether	23.0		µg/kg wet		20.0		115	70-130		
Naphthalene	20.0		µg/kg wet		20.0		100	70-130		
n-Propylbenzene	19.8		µg/kg wet		20.0		99	70-130		
Toluene	20.0		µg/kg wet		20.0		100	70-130		
1,2,4-Trimethylbenzene	20.6		µg/kg wet		20.0		103	70-130		
1,3,5-Trimethylbenzene	20.8		µg/kg wet		20.0		104	70-130		
m,p-Xylene	45.9		µg/kg wet		40.0		115	70-130		
o-Xylene	23.3		µg/kg wet		20.0		117	70-130		
Surrogate: 4-Bromofluorobenzene	*30.8*		µg/kg wet		*30.0*		*103*	*70-130*		
Surrogate: Toluene-d8	*30.2*		µg/kg wet		*30.0*		*101*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*28.5*		µg/kg wet		*30.0*		*95*	*70-130*		
Surrogate: Dibromofluoromethane	*29.8*		µg/kg wet		*30.0*		*99*	*70-130*		
LCS Dup (8062316-BSD1)										
Prepared & Analyzed: 30-Jun-08										
Benzene	20.0		µg/kg wet		20.0		100	70-130	3	25
n-Butylbenzene	16.8		µg/kg wet		20.0		84	70-130	3	25
sec-Butylbenzene	19.8		µg/kg wet		20.0		99	70-130	3	25
tert-Butylbenzene	21.1		µg/kg wet		20.0		106	70-130	3	25
Ethylbenzene	21.9		µg/kg wet		20.0		109	70-130	4	25

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* Reportable Detection Limit BRL = Below Reporting Limit

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8062316 - SW846 5030 Soil (high level)										
LCS Dup (8062316-BSD1)										
Prepared & Analyzed: 30-Jun-08										
Isopropylbenzene	20.5		µg/kg wet		20.0		102	70-130	4	25
4-Isopropyltoluene	19.0		µg/kg wet		20.0		95	70-130	3	25
Methyl tert-butyl ether	22.1		µg/kg wet		20.0		111	70-130	4	25
Naphthalene	19.0		µg/kg wet		20.0		95	70-130	5	25
n-Propylbenzene	19.5		µg/kg wet		20.0		97	70-130	2	25
Toluene	19.2		µg/kg wet		20.0		96	70-130	4	25
1,2,4-Trimethylbenzene	20.0		µg/kg wet		20.0		100	70-130	3	25
1,3,5-Trimethylbenzene	20.2		µg/kg wet		20.0		101	70-130	3	25
m,p-Xylene	44.1		µg/kg wet		40.0		110	70-130	4	25
o-Xylene	22.6		µg/kg wet		20.0		113	70-130	3	25
Surrogate: 4-Bromofluorobenzene	*30.9*		µg/kg wet		*30.0*		*103*	*70-130*		
Surrogate: Toluene-d8	*30.2*		µg/kg wet		*30.0*		*101*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*28.4*		µg/kg wet		*30.0*		*95*	*70-130*		
Surrogate: Dibromofluoromethane	*29.9*		µg/kg wet		*30.0*		*100*	*70-130*		
Matrix Spike (8062316-MS1) **Source: SA80704-02**										
Prepared: 30-Jun-08 Analyzed: 01-Jul-08										
Benzene	22.2		µg/kg dry		20.0	BRL	111	70-130		
Toluene	22.0		µg/kg dry		20.0	1.0	105	70-130		
Chlorobenzene	23.5		µg/kg dry		20.0	0.0	118	70-130		
1,1-Dichloroethene	23.3		µg/kg dry		20.0	0.0	116	70-130		
Trichloroethene	22.8		µg/kg dry		20.0	0.0	114	70-130		
Surrogate: 4-Bromofluorobenzene	*32.3*		µg/kg dry		*30.0*		*108*	*70-130*		
Surrogate: Toluene-d8	*30.1*		µg/kg dry		*30.0*		*100*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*28.4*		µg/kg dry		*30.0*		*95*	*70-130*		
Surrogate: Dibromofluoromethane	*30.0*		µg/kg dry		*30.0*		*100*	*70-130*		
Matrix Spike Dup (8062316-MSD1) **Source: SA80704-02**										
Prepared: 30-Jun-08 Analyzed: 01-Jul-08										
Benzene	21.6		µg/kg dry		20.0	BRL	108	70-130	2	30
Toluene	21.4		µg/kg dry		20.0	1.0	102	70-130	3	30
Chlorobenzene	23.6		µg/kg dry		20.0	0.0	118	70-130	0.2	30
1,1-Dichloroethene	23.5		µg/kg dry		20.0	0.0	117	70-130	0.9	30
Trichloroethene	22.3		µg/kg dry		20.0	0.0	112	70-130	2	30
Surrogate: 4-Bromofluorobenzene	*33.0*		µg/kg dry		*30.0*		*110*	*70-130*		
Surrogate: Toluene-d8	*30.2*		µg/kg dry		*30.0*		*101*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*28.3*		µg/kg dry		*30.0*		*94*	*70-130*		
Surrogate: Dibromofluoromethane	*29.4*		µg/kg dry		*30.0*		*98*	*70-130*		
Batch 8070041 - SW846 5035A Soil (low level)										
Blank (8070041-BLK1)										
Prepared: 01-Jul-08 Analyzed: 02-Jul-08										
Benzene	BRL		µg/kg wet	5.0						
n-Butylbenzene	BRL		µg/kg wet	5.0						
sec-Butylbenzene	BRL		µg/kg wet	5.0						
tert-Butylbenzene	BRL		µg/kg wet	5.0						
Ethylbenzene	BRL		µg/kg wet	5.0						
Isopropylbenzene	BRL		µg/kg wet	5.0						
4-Isopropyltoluene	BRL		µg/kg wet	5.0						
Methyl tert-butyl ether	BRL		µg/kg wet	5.0						
Naphthalene	BRL		µg/kg wet	5.0						
n-Propylbenzene	BRL		µg/kg wet	5.0						
Toluene	BRL		µg/kg wet	5.0						

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8070041 - SW846 5035A Soil (low level)										
Blank (8070041-BLK1)										
Prepared: 01-Jul-08 Analyzed: 02-Jul-08										
1,2,4-Trimethylbenzene	BRL		µg/kg wet	5.0						
1,3,5-Trimethylbenzene	BRL		µg/kg wet	5.0						
m,p-Xylene	BRL		µg/kg wet	10.0						
o-Xylene	BRL		µg/kg wet	5.0						
Chlorobenzene	BRL		µg/kg wet	5.0						
1,1-Dichloroethene	BRL		µg/kg wet	5.0						
Trichloroethene	BRL		µg/kg wet	5.0						
Surrogate: 4-Bromofluorobenzene	*50.4*		µg/kg wet		*50.0*		*101*	*70-130*		
Surrogate: Toluene-d8	*51.9*		µg/kg wet		*50.0*		*104*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*60.1*		µg/kg wet		*50.0*		*120*	*70-130*		
Surrogate: Dibromofluoromethane	*56.2*		µg/kg wet		*50.0*		*112*	*70-130*		
LCS (8070041-BS1)										
Prepared: 01-Jul-08 Analyzed: 02-Jul-08										
Benzene	17.5		µg/kg wet		20.0		87	70-130		
n-Butylbenzene	16.2		µg/kg wet		20.0		81	70-130		
sec-Butylbenzene	19.2		µg/kg wet		20.0		96	70-130		
tert-Butylbenzene	19.5		µg/kg wet		20.0		97	70-130		
Ethylbenzene	18.6		µg/kg wet		20.0		93	70-130		
Isopropylbenzene	17.8		µg/kg wet		20.0		89	70-130		
4-Isopropyltoluene	18.1		µg/kg wet		20.0		90	70-130		
Methyl tert-butyl ether	15.3		µg/kg wet		20.0		76	70-130		
Naphthalene	14.6		µg/kg wet		20.0		73	70-130		
n-Propylbenzene	17.8		µg/kg wet		20.0		89	70-130		
Toluene	18.1		µg/kg wet		20.0		90	70-130		
1,2,4-Trimethylbenzene	18.9		µg/kg wet		20.0		94	70-130		
1,3,5-Trimethylbenzene	18.8		µg/kg wet		20.0		94	70-130		
m,p-Xylene	39.1		µg/kg wet		40.0		98	70-130		
o-Xylene	20.0		µg/kg wet		20.0		100	70-130		
Surrogate: 4-Bromofluorobenzene	*51.5*		µg/kg wet		*50.0*		*103*	*70-130*		
Surrogate: Toluene-d8	*51.0*		µg/kg wet		*50.0*		*102*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*50.5*		µg/kg wet		*50.0*		*101*	*70-130*		
Surrogate: Dibromofluoromethane	*50.1*		µg/kg wet		*50.0*		*100*	*70-130*		
LCS Dup (8070041-BSD1)										
Prepared: 01-Jul-08 Analyzed: 02-Jul-08										
Benzene	19.0		µg/kg wet		20.0		95	70-130	9	25
n-Butylbenzene	17.8		µg/kg wet		20.0		89	70-130	10	25
sec-Butylbenzene	21.2		µg/kg wet		20.0		106	70-130	10	25
tert-Butylbenzene	21.5		µg/kg wet		20.0		107	70-130	10	25
Ethylbenzene	20.2		µg/kg wet		20.0		101	70-130	9	25
Isopropylbenzene	19.7		µg/kg wet		20.0		98	70-130	10	25
4-Isopropyltoluene	19.4		µg/kg wet		20.0		97	70-130	7	25
Methyl tert-butyl ether	18.2		µg/kg wet		20.0		91	70-130	17	25
Naphthalene	16.0		µg/kg wet		20.0		80	70-130	9	25
n-Propylbenzene	20.1		µg/kg wet		20.0		101	70-130	12	25
Toluene	19.9		µg/kg wet		20.0		99	70-130	9	25
1,2,4-Trimethylbenzene	21.2		µg/kg wet		20.0		106	70-130	12	25
1,3,5-Trimethylbenzene	20.7		µg/kg wet		20.0		104	70-130	10	25
m,p-Xylene	43.8		µg/kg wet		40.0		109	70-130	11	25
o-Xylene	22.1		µg/kg wet		20.0		110	70-130	10	25
Surrogate: 4-Bromofluorobenzene	*52.7*		µg/kg wet		*50.0*		*105*	*70-130*		

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8070041 - SW846 5035A Soil (low level)										
LCS Dup (8070041-BSD1)										
Prepared: 01-Jul-08 Analyzed: 02-Jul-08										
Surrogate: Toluene-d8	*50.9*		µg/kg wet		*50.0*		*102*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*53.7*		µg/kg wet		*50.0*		*107*	*70-130*		
Surrogate: Dibromofluoromethane	*52.4*		µg/kg wet		*50.0*		*105*	*70-130*		
Batch 8070167 - SW846 5030 Soil (high level)										
Blank (8070167-BLK1)										
Prepared & Analyzed: 02-Jul-08										
Benzene	BRL		µg/kg wet	1.0						
n-Butylbenzene	BRL		µg/kg wet	1.0						
sec-Butylbenzene	BRL		µg/kg wet	1.0						
tert-Butylbenzene	BRL		µg/kg wet	1.0						
Ethylbenzene	BRL		µg/kg wet	1.0						
Isopropylbenzene	BRL		µg/kg wet	1.0						
4-Isopropyltoluene	BRL		µg/kg wet	1.0						
Methyl tert-butyl ether	BRL		µg/kg wet	1.0						
Naphthalene	BRL		µg/kg wet	1.0						
n-Propylbenzene	BRL		µg/kg wet	1.0						
Toluene	BRL		µg/kg wet	1.0						
1,2,4-Trimethylbenzene	BRL		µg/kg wet	1.0						
1,3,5-Trimethylbenzene	BRL		µg/kg wet	1.0						
m,p-Xylene	BRL		µg/kg wet	2.0						
o-Xylene	BRL		µg/kg wet	1.0						
Chlorobenzene	BRL		µg/kg wet	1.0						
1,1-Dichloroethene	BRL		µg/kg wet	1.0						
Trichloroethene	BRL		µg/kg wet	1.0						
Surrogate: 4-Bromofluorobenzene	*30.3*		µg/kg wet		*30.0*		*101*	*70-130*		
Surrogate: Toluene-d8	*30.7*		µg/kg wet		*30.0*		*102*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*28.3*		µg/kg wet		*30.0*		*94*	*70-130*		
Surrogate: Dibromofluoromethane	*29.5*		µg/kg wet		*30.0*		*98*	*70-130*		
LCS (8070167-BS1)										
Prepared & Analyzed: 02-Jul-08										
Benzene	20.4		µg/kg wet		20.0		102	70-130		
n-Butylbenzene	18.1		µg/kg wet		20.0		91	70-130		
sec-Butylbenzene	20.9		µg/kg wet		20.0		104	70-130		
tert-Butylbenzene	21.7		µg/kg wet		20.0		108	70-130		
Ethylbenzene	22.5		µg/kg wet		20.0		113	70-130		
Isopropylbenzene	21.2		µg/kg wet		20.0		106	70-130		
4-Isopropyltoluene	19.7		µg/kg wet		20.0		98	70-130		
Methyl tert-butyl ether	21.8		µg/kg wet		20.0		109	70-130		
Naphthalene	18.9		µg/kg wet		20.0		94	70-130		
n-Propylbenzene	20.1		µg/kg wet		20.0		101	70-130		
Toluene	19.8		µg/kg wet		20.0		99	70-130		
1,2,4-Trimethylbenzene	20.6		µg/kg wet		20.0		103	70-130		
1,3,5-Trimethylbenzene	20.7		µg/kg wet		20.0		104	70-130		
m,p-Xylene	45.3		µg/kg wet		40.0		113	70-130		
o-Xylene	22.8		µg/kg wet		20.0		114	70-130		
Surrogate: 4-Bromofluorobenzene	*31.4*		µg/kg wet		*30.0*		*105*	*70-130*		
Surrogate: Toluene-d8	*30.4*		µg/kg wet		*30.0*		*101*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*28.4*		µg/kg wet		*30.0*		*95*	*70-130*		
Surrogate: Dibromofluoromethane	*29.6*		µg/kg wet		*30.0*		*99*	*70-130*		
LCS Dup (8070167-BSD1)										

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8070167 - SW846 5030 Soil (high level)										
Prepared & Analyzed: 02-Jul-08										
Benzene	20.8		µg/kg wet		20.0		104	70-130	2	25
n-Butylbenzene	17.4		µg/kg wet		20.0		87	70-130	4	25
sec-Butylbenzene	20.6		µg/kg wet		20.0		103	70-130	1	25
tert-Butylbenzene	21.8		µg/kg wet		20.0		109	70-130	0.5	25
Ethylbenzene	23.3		µg/kg wet		20.0		117	70-130	4	25
Isopropylbenzene	21.8		µg/kg wet		20.0		109	70-130	3	25
4-Isopropyltoluene	19.4		µg/kg wet		20.0		97	70-130	1	25
Methyl tert-butyl ether	22.3		µg/kg wet		20.0		111	70-130	2	25
Naphthalene	19.6		µg/kg wet		20.0		98	70-130	4	25
n-Propylbenzene	20.4		µg/kg wet		20.0		102	70-130	1	25
Toluene	20.0		µg/kg wet		20.0		100	70-130	1	25
1,2,4-Trimethylbenzene	21.1		µg/kg wet		20.0		105	70-130	2	25
1,3,5-Trimethylbenzene	21.3		µg/kg wet		20.0		106	70-130	3	25
m,p-Xylene	47.0		µg/kg wet		40.0		118	70-130	4	25
o-Xylene	23.5		µg/kg wet		20.0		118	70-130	3	25
Surrogate: 4-Bromofluorobenzene	*31.0*		µg/kg wet		*30.0*		*104*	*70-130*		
Surrogate: Toluene-d8	*30.3*		µg/kg wet		*30.0*		*101*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*28.3*		µg/kg wet		*30.0*		*94*	*70-130*		
Surrogate: Dibromofluoromethane	*29.8*		µg/kg wet		*30.0*		*99*	*70-130*		
Matrix Spike (8070167-MS1) Source: SA80687-06										
Prepared & Analyzed: 02-Jul-08										
Benzene	23.6		µg/kg dry		20.0	BRL	118	70-130		
Toluene	22.4		µg/kg dry		20.0	BRL	112	70-130		
Chlorobenzene	24.4		µg/kg dry		20.0	0.0	122	70-130		
1,1-Dichloroethene	27.8	QM7	µg/kg dry		20.0	0.0	139	70-130		
Trichloroethene	25.2		µg/kg dry		20.0	0.0	126	70-130		
Surrogate: 4-Bromofluorobenzene	*33.1*		µg/kg dry		*30.0*		*110*	*70-130*		
Surrogate: Toluene-d8	*29.9*		µg/kg dry		*30.0*		*100*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*28.7*		µg/kg dry		*30.0*		*96*	*70-130*		
Surrogate: Dibromofluoromethane	*29.4*		µg/kg dry		*30.0*		*98*	*70-130*		
Matrix Spike Dup (8070167-MSD1) Source: SA80687-06										
Prepared & Analyzed: 02-Jul-08										
Benzene	24.6		µg/kg dry		20.0	BRL	123	70-130	4	30
Toluene	23.5		µg/kg dry		20.0	BRL	118	70-130	5	30
Chlorobenzene	25.2		µg/kg dry		20.0	0.0	126	70-130	3	30
1,1-Dichloroethene	29.1	QM7	µg/kg dry		20.0	0.0	146	70-130	5	30
Trichloroethene	26.3	QM7	µg/kg dry		20.0	0.0	131	70-130	4	30
Surrogate: 4-Bromofluorobenzene	*32.9*		µg/kg dry		*30.0*		*110*	*70-130*		
Surrogate: Toluene-d8	*30.2*		µg/kg dry		*30.0*		*101*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*29.2*		µg/kg dry		*30.0*		*97*	*70-130*		
Surrogate: Dibromofluoromethane	*29.8*		µg/kg dry		*30.0*		*99*	*70-130*		
Batch 8070214 - SW846 5030 Soil (high level)										
Blank (8070214-BLK1)										
Prepared & Analyzed: 02-Jul-08										
Benzene	BRL		µg/kg wet	1.0						
n-Butylbenzene	BRL		µg/kg wet	1.0						
sec-Butylbenzene	BRL		µg/kg wet	1.0						
tert-Butylbenzene	BRL		µg/kg wet	1.0						
Ethylbenzene	BRL		µg/kg wet	1.0						
Isopropylbenzene	BRL		µg/kg wet	1.0						
4-Isopropyltoluene	BRL		µg/kg wet	1.0						

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8070214 - SW846 5030 Soil (high level)										
Blank (8070214-BLK1)										
Prepared & Analyzed: 02-Jul-08										
Methyl tert-butyl ether	BRL		µg/kg wet	1.0						
Naphthalene	BRL		µg/kg wet	1.0						
n-Propylbenzene	BRL		µg/kg wet	1.0						
Toluene	BRL		µg/kg wet	1.0						
1,2,4-Trimethylbenzene	BRL		µg/kg wet	1.0						
1,3,5-Trimethylbenzene	BRL		µg/kg wet	1.0						
m,p-Xylene	BRL		µg/kg wet	2.0						
o-Xylene	BRL		µg/kg wet	1.0						
Chlorobenzene	BRL		µg/kg wet	1.0						
1,1-Dichloroethene	BRL		µg/kg wet	1.0						
Trichloroethene	BRL		µg/kg wet	1.0						
Surrogate: 4-Bromofluorobenzene	*31.1*		µg/kg wet		*30.0*		*104*	*70-130*		
Surrogate: Toluene-d8	*30.5*		µg/kg wet		*30.0*		*102*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*29.2*		µg/kg wet		*30.0*		*97*	*70-130*		
Surrogate: Dibromofluoromethane	*29.6*		µg/kg wet		*30.0*		*99*	*70-130*		
LCS (8070214-BS1)										
Prepared & Analyzed: 02-Jul-08										
Benzene	19.8		µg/kg wet		20.0		99	70-130		
n-Butylbenzene	17.3		µg/kg wet		20.0		87	70-130		
sec-Butylbenzene	20.2		µg/kg wet		20.0		101	70-130		
tert-Butylbenzene	21.1		µg/kg wet		20.0		106	70-130		
Ethylbenzene	21.9		µg/kg wet		20.0		109	70-130		
Isopropylbenzene	20.6		µg/kg wet		20.0		103	70-130		
4-Isopropyltoluene	19.2		µg/kg wet		20.0		96	70-130		
Methyl tert-butyl ether	21.6		µg/kg wet		20.0		108	70-130		
Naphthalene	19.1		µg/kg wet		20.0		96	70-130		
n-Propylbenzene	19.6		µg/kg wet		20.0		98	70-130		
Toluene	19.2		µg/kg wet		20.0		96	70-130		
1,2,4-Trimethylbenzene	20.1		µg/kg wet		20.0		100	70-130		
1,3,5-Trimethylbenzene	20.3		µg/kg wet		20.0		102	70-130		
m,p-Xylene	44.0		µg/kg wet		40.0		110	70-130		
o-Xylene	22.4		µg/kg wet		20.0		112	70-130		
Surrogate: 4-Bromofluorobenzene	*30.7*		µg/kg wet		*30.0*		*102*	*70-130*		
Surrogate: Toluene-d8	*30.4*		µg/kg wet		*30.0*		*101*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*28.7*		µg/kg wet		*30.0*		*96*	*70-130*		
Surrogate: Dibromofluoromethane	*29.9*		µg/kg wet		*30.0*		*100*	*70-130*		
LCS Dup (8070214-BSD1)										
Prepared & Analyzed: 02-Jul-08										
Benzene	20.2		µg/kg wet		20.0		101	70-130	2	25
n-Butylbenzene	17.2		µg/kg wet		20.0		86	70-130	0.8	25
sec-Butylbenzene	20.2		µg/kg wet		20.0		101	70-130	0.05	25
tert-Butylbenzene	21.2		µg/kg wet		20.0		106	70-130	0.3	25
Ethylbenzene	22.4		µg/kg wet		20.0		112	70-130	3	25
Isopropylbenzene	20.8		µg/kg wet		20.0		104	70-130	1	25
4-Isopropyltoluene	19.2		µg/kg wet		20.0		96	70-130	0.3	25
Methyl tert-butyl ether	21.6		µg/kg wet		20.0		108	70-130	0.3	25
Naphthalene	17.6		µg/kg wet		20.0		88	70-130	8	25
n-Propylbenzene	19.9		µg/kg wet		20.0		99	70-130	1	25
Toluene	19.5		µg/kg wet		20.0		98	70-130	2	25
1,2,4-Trimethylbenzene	20.4		µg/kg wet		20.0		102	70-130	1	25

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8070214 - SW846 5030 Soil (high level)										
LCS Dup (8070214-BSD1)										
Prepared & Analyzed: 02-Jul-08										
1,3,5-Trimethylbenzene	20.5		µg/kg wet		20.0		102	70-130	1	25
m,p-Xylene	45.0		µg/kg wet		40.0		113	70-130	2	25
o-Xylene	22.9		µg/kg wet		20.0		115	70-130	2	25
Surrogate: 4-Bromofluorobenzene	*31.2*		µg/kg wet		*30.0*		*104*	*70-130*		
Surrogate: Toluene-d8	*30.4*		µg/kg wet		*30.0*		*101*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*28.5*		µg/kg wet		*30.0*		*95*	*70-130*		
Surrogate: Dibromofluoromethane	*29.7*		µg/kg wet		*30.0*		*99*	*70-130*		
Matrix Spike (8070214-MS1) **Source: SA80778-01**										
Prepared: 02-Jul-08 Analyzed: 03-Jul-08										
Benzene	23.6		µg/kg dry		20.0	BRL	118	70-130		
Toluene	26.8		µg/kg dry		20.0	5.2	108	70-130		
Chlorobenzene	25.0		µg/kg dry		20.0	0.0	125	70-130		
1,1-Dichloroethene	26.6	QM7	µg/kg dry		20.0	0.0	133	70-130		
Trichloroethene	24.2		µg/kg dry		20.0	0.0	121	70-130		
Surrogate: 4-Bromofluorobenzene	*33.7*		µg/kg dry		*30.0*		*112*	*70-130*		
Surrogate: Toluene-d8	*30.0*		µg/kg dry		*30.0*		*100*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*29.4*		µg/kg dry		*30.0*		*98*	*70-130*		
Surrogate: Dibromofluoromethane	*30.0*		µg/kg dry		*30.0*		*100*	*70-130*		
Matrix Spike Dup (8070214-MSD1) **Source: SA80778-01**										
Prepared: 02-Jul-08 Analyzed: 03-Jul-08										
Benzene	24.0		µg/kg dry		20.0	BRL	120	70-130	1	30
Toluene	27.8		µg/kg dry		20.0	5.2	113	70-130	5	30
Chlorobenzene	24.3		µg/kg dry		20.0	0.0	122	70-130	3	30
1,1-Dichloroethene	26.2	QM7	µg/kg dry		20.0	0.0	131	70-130	2	30
Trichloroethene	24.8		µg/kg dry		20.0	0.0	124	70-130	2	30
Surrogate: 4-Bromofluorobenzene	*33.6*		µg/kg dry		*30.0*		*112*	*70-130*		
Surrogate: Toluene-d8	*30.4*		µg/kg dry		*30.0*		*101*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*30.3*		µg/kg dry		*30.0*		*101*	*70-130*		
Surrogate: Dibromofluoromethane	*30.8*		µg/kg dry		*30.0*		*103*	*70-130*		
Batch 8070227 - SW846 5035A Soil (low level)										
Blank (8070227-BLK1)										
Prepared & Analyzed: 02-Jul-08										
Benzene	BRL		µg/kg wet	5.0						
n-Butylbenzene	BRL		µg/kg wet	5.0						
sec-Butylbenzene	BRL		µg/kg wet	5.0						
tert-Butylbenzene	BRL		µg/kg wet	5.0						
Ethylbenzene	BRL		µg/kg wet	5.0						
Isopropylbenzene	BRL		µg/kg wet	5.0						
4-Isopropyltoluene	BRL		µg/kg wet	5.0						
Methyl tert-butyl ether	BRL		µg/kg wet	5.0						
Naphthalene	BRL		µg/kg wet	5.0						
n-Propylbenzene	BRL		µg/kg wet	5.0						
Toluene	BRL		µg/kg wet	5.0						
1,2,4-Trimethylbenzene	BRL		µg/kg wet	5.0						
1,3,5-Trimethylbenzene	BRL		µg/kg wet	5.0						
m,p-Xylene	BRL		µg/kg wet	10.0						
o-Xylene	BRL		µg/kg wet	5.0						
Chlorobenzene	BRL		µg/kg wet	5.0						
1,1-Dichloroethene	BRL		µg/kg wet	5.0						
Trichloroethene	BRL		µg/kg wet	5.0						

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8070227 - SW846 5035A Soil (low level)										
Blank (8070227-BLK1)										
Prepared & Analyzed: 02-Jul-08										
Surrogate: 4-Bromofluorobenzene	*50.6*		µg/kg wet		*50.0*		*101*	*70-130*		
Surrogate: Toluene-d8	*51.8*		µg/kg wet		*50.0*		*104*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*61.7*		µg/kg wet		*50.0*		*123*	*70-130*		
Surrogate: Dibromofluoromethane	*56.0*		µg/kg wet		*50.0*		*112*	*70-130*		
LCS (8070227-BS1)										
Prepared & Analyzed: 02-Jul-08										
Benzene	19.2		µg/kg wet		20.0		96	70-130		
n-Butylbenzene	20.2		µg/kg wet		20.0		101	70-130		
sec-Butylbenzene	22.0		µg/kg wet		20.0		110	70-130		
tert-Butylbenzene	20.9		µg/kg wet		20.0		104	70-130		
Ethylbenzene	20.3		µg/kg wet		20.0		101	70-130		
Isopropylbenzene	19.9		µg/kg wet		20.0		100	70-130		
4-Isopropyltoluene	20.7		µg/kg wet		20.0		103	70-130		
Methyl tert-butyl ether	18.4		µg/kg wet		20.0		92	70-130		
Naphthalene	29.3	QC1	µg/kg wet		20.0		147	70-130		
n-Propylbenzene	20.6		µg/kg wet		20.0		103	70-130		
Toluene	18.9		µg/kg wet		20.0		94	70-130		
1,2,4-Trimethylbenzene	20.5		µg/kg wet		20.0		102	70-130		
1,3,5-Trimethylbenzene	20.6		µg/kg wet		20.0		103	70-130		
m,p-Xylene	41.3		µg/kg wet		40.0		103	70-130		
o-Xylene	20.5		µg/kg wet		20.0		102	70-130		
Surrogate: 4-Bromofluorobenzene	*51.8*		µg/kg wet		*50.0*		*104*	*70-130*		
Surrogate: Toluene-d8	*50.8*		µg/kg wet		*50.0*		*102*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*48.9*		µg/kg wet		*50.0*		*98*	*70-130*		
Surrogate: Dibromofluoromethane	*49.7*		µg/kg wet		*50.0*		*99*	*70-130*		
LCS Dup (8070227-BSD1)										
Prepared & Analyzed: 02-Jul-08										
Benzene	19.6		µg/kg wet		20.0		98	70-130	2	25
n-Butylbenzene	20.4		µg/kg wet		20.0		102	70-130	0.7	25
sec-Butylbenzene	21.4		µg/kg wet		20.0		107	70-130	3	25
tert-Butylbenzene	21.0		µg/kg wet		20.0		105	70-130	0.8	25
Ethylbenzene	20.4		µg/kg wet		20.0		102	70-130	0.7	25
Isopropylbenzene	19.7		µg/kg wet		20.0		98	70-130	1	25
4-Isopropyltoluene	21.0		µg/kg wet		20.0		105	70-130	2	25
Methyl tert-butyl ether	19.4		µg/kg wet		20.0		97	70-130	5	25
Naphthalene	25.8		µg/kg wet		20.0		129	70-130	13	25
n-Propylbenzene	20.4		µg/kg wet		20.0		102	70-130	1	25
Toluene	19.2		µg/kg wet		20.0		96	70-130	2	25
1,2,4-Trimethylbenzene	20.1		µg/kg wet		20.0		101	70-130	2	25
1,3,5-Trimethylbenzene	20.8		µg/kg wet		20.0		104	70-130	0.9	25
m,p-Xylene	41.4		µg/kg wet		40.0		104	70-130	0.3	25
o-Xylene	20.7		µg/kg wet		20.0		104	70-130	1	25
Surrogate: 4-Bromofluorobenzene	*51.1*		µg/kg wet		*50.0*		*102*	*70-130*		
Surrogate: Toluene-d8	*50.1*		µg/kg wet		*50.0*		*100*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*51.4*		µg/kg wet		*50.0*		*103*	*70-130*		
Surrogate: Dibromofluoromethane	*50.7*		µg/kg wet		*50.0*		*101*	*70-130*		
Batch 8070290 - SW846 5030 Soil (high level)										
Blank (8070290-BLK1)										
Prepared & Analyzed: 03-Jul-08										
Benzene	BRL		µg/kg wet	1.0						

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8070290 - SW846 5030 Soil (high level)										
Blank (8070290-BLK1)										
Prepared & Analyzed: 03-Jul-08										
n-Butylbenzene	BRL		µg/kg wet	1.0						
sec-Butylbenzene	BRL		µg/kg wet	1.0						
tert-Butylbenzene	BRL		µg/kg wet	1.0						
Ethylbenzene	BRL		µg/kg wet	1.0						
Isopropylbenzene	BRL		µg/kg wet	1.0						
4-Isopropyltoluene	BRL		µg/kg wet	1.0						
Methyl tert-butyl ether	BRL		µg/kg wet	1.0						
Naphthalene	BRL		µg/kg wet	1.0						
n-Propylbenzene	BRL		µg/kg wet	1.0						
Toluene	BRL		µg/kg wet	1.0						
1,2,4-Trimethylbenzene	BRL		µg/kg wet	1.0						
1,3,5-Trimethylbenzene	BRL		µg/kg wet	1.0						
m,p-Xylene	BRL		µg/kg wet	2.0						
o-Xylene	BRL		µg/kg wet	1.0						
Chlorobenzene	BRL		µg/kg wet	1.0						
1,1-Dichloroethene	BRL		µg/kg wet	1.0						
Trichloroethene	BRL		µg/kg wet	1.0						
Surrogate: 4-Bromofluorobenzene	*30.9*		µg/kg wet		*30.0*		*103*	*70-130*		
Surrogate: Toluene-d8	*30.4*		µg/kg wet		*30.0*		*101*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*28.6*		µg/kg wet		*30.0*		*95*	*70-130*		
Surrogate: Dibromofluoromethane	*29.5*		µg/kg wet		*30.0*		*98*	*70-130*		
LCS (8070290-BS1)										
Prepared & Analyzed: 03-Jul-08										
Benzene	19.0		µg/kg wet		20.0		95	70-130		
n-Butylbenzene	17.5		µg/kg wet		20.0		87	70-130		
sec-Butylbenzene	19.7		µg/kg wet		20.0		98	70-130		
tert-Butylbenzene	20.4		µg/kg wet		20.0		102	70-130		
Ethylbenzene	21.1		µg/kg wet		20.0		105	70-130		
Isopropylbenzene	19.9		µg/kg wet		20.0		100	70-130		
4-Isopropyltoluene	18.6		µg/kg wet		20.0		93	70-130		
Methyl tert-butyl ether	21.5		µg/kg wet		20.0		108	70-130		
Naphthalene	20.9		µg/kg wet		20.0		105	70-130		
n-Propylbenzene	18.9		µg/kg wet		20.0		94	70-130		
Toluene	18.4		µg/kg wet		20.0		92	70-130		
1,2,4-Trimethylbenzene	19.9		µg/kg wet		20.0		99	70-130		
1,3,5-Trimethylbenzene	19.9		µg/kg wet		20.0		100	70-130		
m,p-Xylene	42.5		µg/kg wet		40.0		106	70-130		
o-Xylene	21.5		µg/kg wet		20.0		107	70-130		
Surrogate: 4-Bromofluorobenzene	*31.8*		µg/kg wet		*30.0*		*106*	*70-130*		
Surrogate: Toluene-d8	*30.4*		µg/kg wet		*30.0*		*101*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*28.8*		µg/kg wet		*30.0*		*96*	*70-130*		
Surrogate: Dibromofluoromethane	*29.6*		µg/kg wet		*30.0*		*98*	*70-130*		
LCS Dup (8070290-BSD1)										
Prepared & Analyzed: 03-Jul-08										
Benzene	19.3		µg/kg wet		20.0		97	70-130	2	25
n-Butylbenzene	17.5		µg/kg wet		20.0		87	70-130	0.06	25
sec-Butylbenzene	19.8		µg/kg wet		20.0		99	70-130	0.4	25
tert-Butylbenzene	20.8		µg/kg wet		20.0		104	70-130	2	25
Ethylbenzene	21.2		µg/kg wet		20.0		106	70-130	0.8	25
Isopropylbenzene	20.0		µg/kg wet		20.0		100	70-130	0.2	25

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* Reportable Detection Limit BRL = Below Reporting Limit

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8070290 - SW846 5030 Soil (high level)										
LCS Dup (8070290-BSD1)										
Prepared & Analyzed: 03-Jul-08										
4-Isopropyltoluene	19.1		µg/kg wet		20.0		96	70-130	3	25
Methyl tert-butyl ether	21.7		µg/kg wet		20.0		108	70-130	0.7	25
Naphthalene	21.3		µg/kg wet		20.0		107	70-130	2	25
n-Propylbenzene	19.3		µg/kg wet		20.0		96	70-130	2	25
Toluene	18.6		µg/kg wet		20.0		93	70-130	1	25
1,2,4-Trimethylbenzene	20.7		µg/kg wet		20.0		103	70-130	4	25
1,3,5-Trimethylbenzene	20.6		µg/kg wet		20.0		103	70-130	3	25
m,p-Xylene	42.9		µg/kg wet		40.0		107	70-130	0.9	25
o-Xylene	21.6		µg/kg wet		20.0		108	70-130	0.4	25
Surrogate: 4-Bromofluorobenzene	*31.1*		µg/kg wet		*30.0*		*104*	*70-130*		
Surrogate: Toluene-d8	*30.4*		µg/kg wet		*30.0*		*101*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*28.9*		µg/kg wet		*30.0*		*96*	*70-130*		
Surrogate: Dibromofluoromethane	*29.7*		µg/kg wet		*30.0*		*99*	*70-130*		
Matrix Spike (8070290-MS1) Source: SA80769-04										
Prepared & Analyzed: 03-Jul-08										
Benzene	21.9		µg/kg dry		20.0	BRL	110	70-130		
Toluene	21.4		µg/kg dry		20.0	1.3	101	70-130		
Chlorobenzene	22.7		µg/kg dry		20.0	0.0	113	70-130		
1,1-Dichloroethene	25.3		µg/kg dry		20.0	0.0	127	70-130		
Trichloroethene	22.8		µg/kg dry		20.0	0.0	114	70-130		
Surrogate: 4-Bromofluorobenzene	*32.4*		µg/kg dry		*30.0*		*108*	*70-130*		
Surrogate: Toluene-d8	*29.9*		µg/kg dry		*30.0*		*100*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*28.7*		µg/kg dry		*30.0*		*96*	*70-130*		
Surrogate: Dibromofluoromethane	*29.5*		µg/kg dry		*30.0*		*98*	*70-130*		
Matrix Spike Dup (8070290-MSD1) Source: SA80769-04										
Prepared & Analyzed: 03-Jul-08										
Benzene	22.3		µg/kg dry		20.0	BRL	111	70-130	1	30
Toluene	21.8		µg/kg dry		20.0	1.3	103	70-130	2	30
Chlorobenzene	23.1		µg/kg dry		20.0	0.0	116	70-130	2	30
1,1-Dichloroethene	25.0		µg/kg dry		20.0	0.0	125	70-130	1	30
Trichloroethene	23.1		µg/kg dry		20.0	0.0	116	70-130	1	30
Surrogate: 4-Bromofluorobenzene	*32.5*		µg/kg dry		*30.0*		*108*	*70-130*		
Surrogate: Toluene-d8	*29.9*		µg/kg dry		*30.0*		*100*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*28.6*		µg/kg dry		*30.0*		*95*	*70-130*		
Surrogate: Dibromofluoromethane	*29.3*		µg/kg dry		*30.0*		*98*	*70-130*		
Batch 8070291 - SW846 5035A Soil (low level)										
Blank (8070291-BLK1)										
Prepared & Analyzed: 03-Jul-08										
Benzene	BRL		µg/kg wet	5.0						
n-Butylbenzene	BRL		µg/kg wet	5.0						
sec-Butylbenzene	BRL		µg/kg wet	5.0						
tert-Butylbenzene	BRL		µg/kg wet	5.0						
Ethylbenzene	BRL		µg/kg wet	5.0						
Isopropylbenzene	BRL		µg/kg wet	5.0						
4-Isopropyltoluene	BRL		µg/kg wet	5.0						
Methyl tert-butyl ether	BRL		µg/kg wet	5.0						
Naphthalene	BRL		µg/kg wet	5.0						
n-Propylbenzene	BRL		µg/kg wet	5.0						
Toluene	BRL		µg/kg wet	5.0						
1,2,4-Trimethylbenzene	BRL		µg/kg wet	5.0						

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8070291 - SW846 5035A Soil (low level)										
Blank (8070291-BLK1)										
Prepared & Analyzed: 03-Jul-08										
1,3,5-Trimethylbenzene	BRL		µg/kg wet	5.0						
m,p-Xylene	BRL		µg/kg wet	10.0						
o-Xylene	BRL		µg/kg wet	5.0						
Chlorobenzene	BRL		µg/kg wet	5.0						
1,1-Dichloroethene	BRL		µg/kg wet	5.0						
Trichloroethene	BRL		µg/kg wet	5.0						
Surrogate: 4-Bromofluorobenzene	*51.3*		µg/kg wet		*50.0*		*103*	*70-130*		
Surrogate: Toluene-d8	*52.1*		µg/kg wet		*50.0*		*104*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*60.4*		µg/kg wet		*50.0*		*121*	*70-130*		
Surrogate: Dibromofluoromethane	*55.3*		µg/kg wet		*50.0*		*111*	*70-130*		
LCS (8070291-BS1)										
Prepared & Analyzed: 03-Jul-08										
Benzene	18.9		µg/kg wet		20.0		94	70-130		
n-Butylbenzene	17.6		µg/kg wet		20.0		88	70-130		
sec-Butylbenzene	20.7		µg/kg wet		20.0		103	70-130		
tert-Butylbenzene	21.2		µg/kg wet		20.0		106	70-130		
Ethylbenzene	20.0		µg/kg wet		20.0		100	70-130		
Isopropylbenzene	19.4		µg/kg wet		20.0		97	70-130		
4-Isopropyltoluene	19.4		µg/kg wet		20.0		97	70-130		
Methyl tert-butyl ether	16.3		µg/kg wet		20.0		82	70-130		
Naphthalene	15.9		µg/kg wet		20.0		79	70-130		
n-Propylbenzene	19.7		µg/kg wet		20.0		99	70-130		
Toluene	19.6		µg/kg wet		20.0		98	70-130		
1,2,4-Trimethylbenzene	20.4		µg/kg wet		20.0		102	70-130		
1,3,5-Trimethylbenzene	20.4		µg/kg wet		20.0		102	70-130		
m,p-Xylene	42.8		µg/kg wet		40.0		107	70-130		
o-Xylene	21.1		µg/kg wet		20.0		106	70-130		
Surrogate: 4-Bromofluorobenzene	*51.9*		µg/kg wet		*50.0*		*104*	*70-130*		
Surrogate: Toluene-d8	*51.5*		µg/kg wet		*50.0*		*103*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*51.2*		µg/kg wet		*50.0*		*102*	*70-130*		
Surrogate: Dibromofluoromethane	*50.6*		µg/kg wet		*50.0*		*101*	*70-130*		
LCS Dup (8070291-BSD1)										
Prepared & Analyzed: 03-Jul-08										
Benzene	19.4		µg/kg wet		20.0		97	70-130	2	25
n-Butylbenzene	18.0		µg/kg wet		20.0		90	70-130	2	25
sec-Butylbenzene	21.5		µg/kg wet		20.0		108	70-130	4	25
tert-Butylbenzene	21.7		µg/kg wet		20.0		108	70-130	2	25
Ethylbenzene	20.5		µg/kg wet		20.0		102	70-130	2	25
Isopropylbenzene	19.7		µg/kg wet		20.0		98	70-130	2	25
4-Isopropyltoluene	19.9		µg/kg wet		20.0		99	70-130	2	25
Methyl tert-butyl ether	17.0		µg/kg wet		20.0		85	70-130	4	25
Naphthalene	15.8		µg/kg wet		20.0		79	70-130	0.1	25
n-Propylbenzene	20.3		µg/kg wet		20.0		101	70-130	3	25
Toluene	19.9		µg/kg wet		20.0		100	70-130	2	25
1,2,4-Trimethylbenzene	20.7		µg/kg wet		20.0		104	70-130	2	25
1,3,5-Trimethylbenzene	20.9		µg/kg wet		20.0		104	70-130	2	25
m,p-Xylene	43.6		µg/kg wet		40.0		109	70-130	2	25
o-Xylene	22.2		µg/kg wet		20.0		111	70-130	5	25
Surrogate: 4-Bromofluorobenzene	*50.4*		µg/kg wet		*50.0*		*101*	*70-130*		
Surrogate: Toluene-d8	*50.4*		µg/kg wet		*50.0*		*101*	*70-130*		

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8070291 - SW846 5035A Soil (low level)										
LCS Dup (8070291-BSD1)										
Prepared & Analyzed: 03-Jul-08										
Surrogate: 1,2-Dichloroethane-d4	*50.6*		µg/kg wet		*50.0*		*101*	*70-130*		
Surrogate: Dibromofluoromethane	*49.5*		µg/kg wet		*50.0*		*99*	*70-130*		
Batch 8070402 - SW846 5030 Soil (high level)										
Blank (8070402-BLK1)										
Prepared & Analyzed: 07-Jul-08										
Benzene	BRL		µg/kg wet	1.0						
n-Butylbenzene	BRL		µg/kg wet	1.0						
sec-Butylbenzene	BRL		µg/kg wet	1.0						
tert-Butylbenzene	BRL		µg/kg wet	1.0						
Ethylbenzene	BRL		µg/kg wet	1.0						
Isopropylbenzene	BRL		µg/kg wet	1.0						
4-Isopropyltoluene	BRL		µg/kg wet	1.0						
Methyl tert-butyl ether	BRL		µg/kg wet	1.0						
Naphthalene	BRL		µg/kg wet	1.0						
n-Propylbenzene	BRL		µg/kg wet	1.0						
Toluene	BRL		µg/kg wet	1.0						
1,2,4-Trimethylbenzene	BRL		µg/kg wet	1.0						
1,3,5-Trimethylbenzene	BRL		µg/kg wet	1.0						
m,p-Xylene	BRL		µg/kg wet	2.0						
o-Xylene	BRL		µg/kg wet	1.0						
Chlorobenzene	BRL		µg/kg wet	1.0						
1,1-Dichloroethene	BRL		µg/kg wet	1.0						
Trichloroethene	BRL		µg/kg wet	1.0						
Surrogate: 4-Bromofluorobenzene	*30.4*		µg/kg wet		*30.0*		*101*	*70-130*		
Surrogate: Toluene-d8	*30.4*		µg/kg wet		*30.0*		*101*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*28.7*		µg/kg wet		*30.0*		*96*	*70-130*		
Surrogate: Dibromofluoromethane	*29.5*		µg/kg wet		*30.0*		*98*	*70-130*		
LCS (8070402-BS1)										
Prepared & Analyzed: 07-Jul-08										
Benzene	19.5		µg/kg wet		20.0		97	70-130		
n-Butylbenzene	17.9		µg/kg wet		20.0		90	70-130		
sec-Butylbenzene	19.9		µg/kg wet		20.0		100	70-130		
tert-Butylbenzene	20.9		µg/kg wet		20.0		105	70-130		
Ethylbenzene	23.8		µg/kg wet		20.0		119	70-130		
Isopropylbenzene	20.4		µg/kg wet		20.0		102	70-130		
4-Isopropyltoluene	19.6		µg/kg wet		20.0		98	70-130		
Methyl tert-butyl ether	21.0		µg/kg wet		20.0		105	70-130		
Naphthalene	20.7		µg/kg wet		20.0		103	70-130		
n-Propylbenzene	19.7		µg/kg wet		20.0		99	70-130		
Toluene	23.0		µg/kg wet		20.0		115	70-130		
1,2,4-Trimethylbenzene	21.7		µg/kg wet		20.0		108	70-130		
1,3,5-Trimethylbenzene	20.6		µg/kg wet		20.0		103	70-130		
m,p-Xylene	53.7	QC1	µg/kg wet		40.0		134	70-130		
o-Xylene	25.8		µg/kg wet		20.0		129	70-130		
Surrogate: 4-Bromofluorobenzene	*30.6*		µg/kg wet		*30.0*		*102*	*70-130*		
Surrogate: Toluene-d8	*30.3*		µg/kg wet		*30.0*		*101*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*28.7*		µg/kg wet		*30.0*		*96*	*70-130*		
Surrogate: Dibromofluoromethane	*29.6*		µg/kg wet		*30.0*		*99*	*70-130*		
LCS Dup (8070402-BSD1)										

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8070402 - SW846 5030 Soil (high level)										
Prepared & Analyzed: 07-Jul-08										
Benzene	19.6		µg/kg wet		20.0		98	70-130	0.4	25
n-Butylbenzene	18.2		µg/kg wet		20.0		91	70-130	2	25
sec-Butylbenzene	21.6		µg/kg wet		20.0		108	70-130	8	25
tert-Butylbenzene	22.5		µg/kg wet		20.0		112	70-130	7	25
Ethylbenzene	23.0		µg/kg wet		20.0		115	70-130	4	25
Isopropylbenzene	21.9		µg/kg wet		20.0		110	70-130	7	25
4-Isopropyltoluene	20.0		µg/kg wet		20.0		100	70-130	2	25
Methyl tert-butyl ether	20.9		µg/kg wet		20.0		104	70-130	0.6	25
Naphthalene	20.8		µg/kg wet		20.0		104	70-130	0.6	25
n-Propylbenzene	21.1		µg/kg wet		20.0		105	70-130	7	25
Toluene	21.0		µg/kg wet		20.0		105	70-130	9	25
1,2,4-Trimethylbenzene	21.7		µg/kg wet		20.0		109	70-130	0.2	25
1,3,5-Trimethylbenzene	21.8		µg/kg wet		20.0		109	70-130	6	25
m,p-Xylene	46.7		µg/kg wet		40.0		117	70-130	14	25
o-Xylene	23.8		µg/kg wet		20.0		119	70-130	8	25
Surrogate: 4-Bromofluorobenzene	*32.3*		µg/kg wet		*30.0*		*108*	*70-130*		
Surrogate: Toluene-d8	*32.7*		µg/kg wet		*30.0*		*109*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*28.6*		µg/kg wet		*30.0*		*95*	*70-130*		
Surrogate: Dibromofluoromethane	*28.8*		µg/kg wet		*30.0*		*96*	*70-130*		

Extractable Petroleum Hydrocarbons - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8070186 - SW846 3550B										
Blank (8070186-BLK1)										
Prepared: 02-Jul-08 Analyzed: 03-Jul-08										
Gasoline	BRL		mg/kg wet	13.3						
Fuel Oil #2	BRL		mg/kg wet	13.3						
Fuel Oil #4	BRL		mg/kg wet	13.3						
Fuel Oil #6	BRL		mg/kg wet	13.3						
Motor Oil	BRL		mg/kg wet	13.3						
Aviation Fuel	BRL		mg/kg wet	13.3						
Unidentified	BRL		mg/kg wet	13.3						
Other Oil	BRL		mg/kg wet	13.3						
Total Petroleum Hydrocarbons	BRL		mg/kg wet	13.3						
C9-C36 Aliphatic Hydrocarbons	BRL		mg/kg wet	13.3						
Surrogate: 1-Chlorooctadecane	*2.05*		mg/kg wet		*3.33*		*62*	*50-150*		
LCS (8070186-BS1)										
Prepared: 02-Jul-08 Analyzed: 03-Jul-08										
C9-C36 Aliphatic Hydrocarbons	59.3		mg/kg wet	13.3	93.3		64	60-120		
Surrogate: 1-Chlorooctadecane	*1.83*		mg/kg wet		*3.33*		*55*	*50-150*		
Duplicate (8070186-DUP1) **Source: SA80749-01**										
Prepared: 02-Jul-08 Analyzed: 03-Jul-08										
Gasoline	BRL		mg/kg dry	34.3		BRL				50
Fuel Oil #2	BRL		mg/kg dry	34.3		BRL				50
Fuel Oil #4	BRL		mg/kg dry	34.3		BRL				50
Fuel Oil #6	BRL		mg/kg dry	34.3		BRL				50
Motor Oil	BRL		mg/kg dry	34.3		BRL				50
Aviation Fuel	BRL		mg/kg dry	34.3		BRL				50
Unidentified	BRL		mg/kg dry	34.3		BRL				50
Other Oil	BRL		mg/kg dry	34.3		BRL				50
Total Petroleum Hydrocarbons	BRL		mg/kg dry	34.3		BRL				50
C9-C36 Aliphatic Hydrocarbons	BRL		mg/kg dry	34.3		BRL				50
Surrogate: 1-Chlorooctadecane	*2.82*		mg/kg dry		*4.30*		*66*	*50-150*		
Matrix Spike (8070186-MS1) **Source: SA80749-01**										
Prepared: 02-Jul-08 Analyzed: 03-Jul-08										
C9-C36 Aliphatic Hydrocarbons	71.5		mg/kg dry	17.1	120	BRL	60	50-150		
Surrogate: 1-Chlorooctadecane	*2.28*		mg/kg dry		*4.28*		*53*	*50-150*		
Matrix Spike Dup (8070186-MSD1) **Source: SA80749-01**										
Prepared: 02-Jul-08 Analyzed: 03-Jul-08										
C9-C36 Aliphatic Hydrocarbons	76.3		mg/kg dry	17.2	121	BRL	63	50-150	6	30
Surrogate: 1-Chlorooctadecane	*2.43*		mg/kg dry		*4.32*		*56*	*50-150*		

General Chemistry Parameters - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8062308 - General Preparation										
Duplicate (8062308-DUP1) Source: SA80749-01										
Prepared & Analyzed: 30-Jun-08										
% Solids	77.9		%			77.0			1	20
Batch 8062317 - General Preparation										
Duplicate (8062317-DUP1) Source: SA80740-01										
Prepared & Analyzed: 30-Jun-08										
% Solids	88.8		%			88.6			0.2	20

Notes and Definitions

E	The concentration indicated for this analyte is an estimated value. This value is considered an estimate (CLP E-flag).
QC1	Analyte out of acceptance range.
QM7	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
R05	Elevated Reporting Limits due to the presence of high levels of non-target analytes.
VC10	The VOC field preserved soil sample is not within the 1:1 weight to volume ratio as recommended by SW846 methods 5030 and 5035 but may be within the 1:1 volume to volume ratio. This variance may affect the final reporting limit
BRL	Below Reporting Limit - Analyte NOT DETECTED at or above the reporting limit
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference

A plus sign (+) in the Method Reference column indicates the method is not accredited by NELAC

Interpretation of Total Petroleum Hydrocarbon Report

Petroleum identification is determined by comparing the GC fingerprint obtained from the sample with a library of GC fingerprints obtained from analyses of various petroleum products. Possible match categories are as follows:

Gasoline - includes regular, unleaded, premium, etc.
Fuel Oil #2 - includes home heating oil, #2 fuel oil, and diesel
Fuel Oil #4 - includes #4 fuel oil
Fuel Oil #6 - includes #6 fuel oil and bunker "C" oil
Motor Oil - includes virgin, waste automobile oil and hydraulic oil
Ligroin - includes mineral spirits, petroleum naphtha, vm&p naphtha
Aviation Fuel - includes kerosene, Jet A and JP-4
Other Oil - includes lubricating and cutting oil, and silicon oil

At times, the unidentified petroleum product is quantified using a calibration that most closely approximates the distribution of compounds in the sample. When this occurs, the result is qualified as *TPH (Calculated as).

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix

Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure The method blank is used to document contamination resulting from the analytical process

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

Validated by:
Hanibal C. Tayeh, Ph.D.
Nicole Brown

State Of Connecticut
Department of Environmental Protection
Laboratory Quality Control and Quality Assurance Form

Laboratory Name: Spectrum Analytical, Inc. - Agawam, MA	Project Name and Number:
Project Location: Litchfield DOT - Litchfield, CT	Litchfield DOT - Litchfield, CT/ 03-273-35E
This Form Provides certifications for the following data set: SA80749-01 SA80749-11 SA80749-21 SA80749-02 SA80749-12 SA80749-22 SA80749-03 SA80749-13 SA80749-23 SA80749-04 SA80749-14 SA80749-24 SA80749-05 SA80749-15 SA80749-25 SA80749-06 SA80749-16 SA80749-26 SA80749-07 SA80749-17 SA80749-08 SA80749-18 SA80749-09 SA80749-19 SA80749-10 SA80749-20	List Specific Analytical Methods Used: +CT ETPH SM2540 G Mod. SW846 8260B VOC Soil Extraction
Sample Matrices: Aqueous Soil/Sediment	

A	Were all samples received by the laboratory in a condition consistent with that described on the Chain of Custody documentation for the data set?	☑ Yes ☐ No
B	Were all QA/QC procedures required for the specified analytical method(s) included in this report followed?	☑ Yes ☐ No
C	Were all QC performance standards and recommendations for the specified methods achieved?	☑ Yes ☐ No
D	Were results for all analyte-list compounds/elements for the specified method(s) reported?	☐ Yes ☑ No *

* The compounds and/or elements reported are as specifically requested by the client on the Chain of Custody and in some cases may not include the full analyte list as defined in the method

Negative responses for A, B and C are addressed in a case narrative on the cover page of this report.

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

Hanibal C. Tayeh, Ph.D.
President/Laboratory Director

Date: 7/8/2008

This laboratory report is not valid without an authorized signature on the cover page.

* Reportable Detection Limit BRL = Below Reporting Limit

Reasonable Confidence Protocols
Laboratory Analysis
QA/QC Certification Form

Laboratory Name: Spectrum Analytical, Inc. - Agawam, MA **Client:** Diversified Technology Consultants

Project Location: Litchfield DOT - Litchfield, CT **Project Number:** 03-273-35E

Sampling Date(s): 26-Jun-08 **Laboratory Sample ID(s):** SA80749-01 through SA80749-26

RCP Methods Used: +CT ETPH SW846 8260B

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 CT DEP method-specific Reasonable Confidence Protocol documents?	☑ Yes ☐ No
1A	Were the method specified preservation and holding time requirements met?	☑ Yes ☐ No
1B	***VPH and EPH methods only***: Was the VPH or EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)? * ** These methods have not yet been approved for release by CT DEP*	☐ Yes ☐ No ☑ 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)?	☑ Yes ☐ No
3	Were samples received at an appropriate temperature?	☐ Yes ☑ No ☐ N/A
4	Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved?	☑ Yes ☐ No
5	a) Were reporting limits specified or referenced on the chain-of-custody? * b) Were these reporting limits met? ** Exceptions are defined by qualifiers*	☑ Yes ☐ No ☑ Yes ☐ 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?	☐ Yes ☑ No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	☑ Yes ☐ No

Note: 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."

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 obtaining the information contained in this analytical report, such information is accurate and complete.

Hanibal C. Tayeh, Ph.D.
President/Laboratory Director

Date: 7/8/2008

SA 80749 FY

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 1 of 3

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: Diversified Technology
55C Washington Ave
North Haven, CT

Project Mgr.: Chris Koelle

Invoice To: DTC
DAS Pricing
04PSX0173

P.O. No.: _____ RQN: _____

Project No.: 03-273 - 35E
Site Name: Litchfield - DOT
Location: Litchfield State: CT
Sampler(s): ES

1=$Na_2S_2O_3$ 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid
7=CH_3OH 8= $NaHSO_4$ 9=_____ 10=_____

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

QA Reporting Notes: (check if needed)
- ☐ Provide MA DEP MCP CAM Report
- ☒ Provide CT DPH RCP Report

QA/QC Reporting Level
- ☒ Standard ☐ No QC
- ☐ Other _____

State specific reporting standards: CT RSR GA PMC Res DEC

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Preservative	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	ETPH	Aromatics only VOCs +MTBE
8074901	SB-2 12.5-14.5'	6/26		G	SO		1		1		X	X
02	SB-2 14.5-16.5'						3		1			X
03	SB-10 12.5-14.5'						3		1			X
04	SB-13 14.5-16.5						1		1			X
05	SB-9 10-12.5						3		1			X
06	SB-9 12.5-15						1		1			X
07	SB-9 15-17.5						1		1		X	X
08	SB-9 17.5-20						3		1			X
09	SB-16 7.5-10						3		1			X
10	SB-16 10-12.5						1		1		X	X

☐ Fax results when available to (____) _____
☒ E-mail to chris.koelle@teamdtc.com
EDD Format _____

Condition upon receipt: ☐ Iced ☐ Ambient ☒ °C 14.1

Relinquished by:	Received by:	Date:	Time:
[signature]	[signature]	6/27/08	1:09
[signature]	[signature]	6/27/08	1930

SA80749 CM

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 2 of 3

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: DTC
~~55~~ North Haven CT

Project Mgr.: Chris Koelle

Invoice To: DTC
DAS Posing 04PSX0173

P.O. No.: _____ RQN: _____

Project No.: 05-273-35E
Site Name: Litchfield-DOT
Location: Litchfield State: CT
Sampler(s): ES

1=$Na_2S_2O_3$ 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid
7=CH_3OH 8= $NaHSO_4$ 9=_____ 10=_____

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

QA Reporting Notes: (check if needed)
- ☐ Provide MA DEP MCP CAM Report
- ☒ Provide CT DPH RCP Report
- QA/QC Reporting Level: ☒ Standard ☐ No QC ☐ Other _____
- State specific reporting standards: _____

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Preservative	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic		ETPH	VOCs + MTBE Aromatic only						
80749-11	SB-16 15-17.5	6/26		G	SO		3		1				X						
12	SB-12 7.5-10						3		1				X						
13	SB-12 10-12.5						1		1			X	X						
14	SB-12 15-17.5						1		1				X						
15	SB-15 7.5-10						3		1				X						
16	SB-15 10-12.5						1		1			X	X						
17	SB-15 15-17.5						3		1				X						
18	SB-14 7.5-10						3		1				X						
19	SB-14 10-12.5						1		1			X	X						
20	SB-14 15-17.5						1		1				X						

☐ Fax results when available to (____) _____
☒ E-mail to _____
EDD Format _____

Condition upon receipt: ☐ Iced ☐ Ambient ☒ °C 14.1

Relinquished by:	Received by:	Date:	Time:
[signature]	[signature]	6/27/08	1:09
[signature]	[signature]	6/27/08	1930

SA 80749 EM

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 3 of 3

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: DTC
North Haven, CT
Project Mgr.: Chris Karle

Invoice To: DTC
DAS Pricing 04PSX0173
P.O. No.: _____ RQN: _____

Project No.: 05-273-35E
Site Name: Litchfield-DOT
Location: Litchfield State: CT
Sampler(s): ES

1=$Na_2S_2O_3$ 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid
7=CH_3OH 8=$NaHSO_4$ 9=_____ 10=_____

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

QA Reporting Notes: (check if needed)
- ☐ Provide MA DEP MCP CAM Report
- ☒ Provide CT DPH RCP Report

QA/QC Reporting Level
- ☒ Standard ☐ No QC
- ☐ Other _____

State specific reporting standards:

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Preservative	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic		ETPH	Aromatic Only VOCs + MTBE						
80749-21	SB-14 17.5-20	6/26		G	SO		3		1				X						
22	SB-8 7.5-10	↓		↓	↓		3		1				X						
23	SB-17 7.5-10	↓		↓	↓		3		1				X						
24	SB-17 10-12.5	↓		↓	↓		1		1			X	X						
25	Duplicate	↓		↓	↓		1		1			X	X						
26	Trip Blank						1						X						

☐ Fax results when available to (____) _____
☒ E-mail to _____
EDD Format _____
Condition upon receipt: ☐ Iced ☐ Ambient ☒ °C 14.1

Relinquished by:	Received by:	Date:	Time:
[signature]	[signature]	6/27/08	1:09
[signature]	[signature]	6/27/08	0930

1 Almgren Drive • Amherst, Massachusetts 01001 • 413-789-9018 • Fax 413-789-4076 • www.spectrum-analytical.com

APPENDIX D

Groundwater Analytical Laboratory Report

Report Date:
24-Jul-08 10:07

☑ Final Report
☐ Re-Issued Report
☐ Revised Report

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

Laboratory Report

Diversified Technology Consultants
556 Washington Avenue
North Haven, CT 06473
Attn: Christopher Koelle

Project: DOT-Litchfield, CT
Project 03-273-35M

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
SA81688-01	MW-3	Ground Water	16-Jul-08 08:34	17-Jul-08 15:05
SA81688-02	MW-4	Ground Water	16-Jul-08 09:23	17-Jul-08 15:05
SA81688-03	MW-5	Ground Water	16-Jul-08 10:00	17-Jul-08 15:05
SA81688-04	MW-1	Ground Water	16-Jul-08 11:14	17-Jul-08 15:05
SA81688-05	MW-2	Ground Water	16-Jul-08 11:59	17-Jul-08 15:05
SA81688-06	Trip Blank	Aqueous	16-Jul-08 00:00	17-Jul-08 15:05
SA81688-07	Duplicate	Ground Water	16-Jul-08 10:05	17-Jul-08 15:05
SA81688-08	Field Blank	Deionized Water	16-Jul-08 00:00	17-Jul-08 15:05

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received.
All applicable NELAC requirements have been met
Spectrum Analytical holds certification in the State of Connecticut for the analytes as indicated with an X in the"Cert." column within this report. Please note that the State of Connecticut does not offer certification for all analytes
Please note that this report contains 17 pages of analytical data plus Chain of Custody document(s).
This report may not be reproduced, except in full, without written approval from Spectrum Analytical, Inc.

Massachusetts Certification # M-MA138/MA1110
Connecticut # PH-0777
Florida # E87600/E87936
Maine # MA138
New Hampshire # 2538
New Jersey # MA011/MA012
New York # 11393/11840
Rhode Island # 98
USDA # S-51435
Vermont # VT-11393

ACCREDITED IN ACCORDANCE WITH nelac

Authorized by:

Hanibal C. Tayeh, Ph.D.
President/Laboratory Director

Technical Reviewer's Initial:

Spectrum Analytical, Inc. is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Spectrum is currently accredited for the specific method or analyte indicated. Please refer to our "Quality" web page at www.spectrum-analytical.com for a full listing of our current certifications and fields of accreditation. States in which Spectrum Analytical, Inc. holds NELAC certification are New York, New Hampshire, New Jersey and Florida. All analytical work for Volatile Organic and Air analysis are transferred to and conducted at our 830 Silver Street location (NY-11840, FL-E87936 and NJ-MA012).

CASE NARRATIVE:

The samples were received 7.0 degrees Celsius, please refer to the Chain of Custody for details specific to temperature upon receipt An infrared thermometer with a tolerance of+/- 2.0 degrees Celsius was used immediately upon receipt of the samples Temperatures exceeding the +/- 2.0 degrees Celsius may affect sample results as stated in each specific method samples collected for air analysis should be collected and submitted at ambient temperature.

CTDEP has published a list of analytical methods which provides a series of recommended protocols for the acquisition analysis and reporting of analytical data in support of decisions being made utilizing the Reasonable Confidence Protocol(RCP). "Reasonable Confidence" can be established only for those methods published by the CTDEP in the RCP guidelines The compounds and/or elements reported were specifically requested by the client on the Chain of Custody and in some cases may not include the full analyte list as defined in the method.

The CTDEP RCP requests that "all non-detects and all results below the reporting limit are reported as ND (Not Detected at the Specified Reporting Limit)". All non-detects and all results below the reporting limit are reported as "BRL" (Below the Reporting Limit) in this report.

If no reporting limits were specified or referenced on the chain-of-custody the laboratory's practical quantitation limits were applied.

Required site-specific Matrix Spike/Matrix Spike Duplicate (MS/MSD) must be requested by the client and sufficient sample must be submitted for the additional analyses. Samples submitted with insufficient volume/weight will not be analyzed for site specific MS/MSD, however a batch MS/MSD may be analyzed from a non-site specific sample.

According to CTDEP RCP Quality Assurance and Quality Control Requirements for VOCs by method8260, SW-846 version 1, 7/28/05 Table 1A, recovery for some VOC analytes have been deemed potentially difficult Although they may still be within the recommended 70%-130% recovery range, a range has been set based on historical control limits.

See below for any non-conformances and issues relating to quality control samples and/or sample analysis/matrix.

SW846 8260B

Laboratory Control Samples:

8071401-BS1

Analyte out of acceptance range.

4-Isopropyltoluene
sec-Butylbenzene
tert-Butylbenzene

Spikes:

8071401-MS1 *Source: SA81688-07*

The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

1,1-Dichloroethene
Benzene

8071401-MSD1 *Source: SA81688-07*

The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

1,1-Dichloroethene
Benzene

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-3 SA81688-01	03-273-35M	Ground Water	16-Jul-08 08:34	17-Jul-08

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
Volatile Organic Compounds											
Volatile Organic Compounds by SW846 8260B											
Prepared by method SW846 5030 Water MS											
71-43-2	Benzene	BRL		µg/l	1.0	1	SW846 8260B	18-Jul-08	19-Jul-08	8071401	
104-51-8	n-Butylbenzene	BRL		µg/l	1.0	1	"	"	"	"	
135-98-8	sec-Butylbenzene	BRL		µg/l	1.0	1	"	"	"	"	
98-06-6	tert-Butylbenzene	BRL		µg/l	1.0	1	"	"	"	"	
100-41-4	Ethylbenzene	BRL		µg/l	1.0	1	"	"	"	"	
98-82-8	Isopropylbenzene	BRL		µg/l	1.0	1	"	"	"	"	
99-87-6	4-Isopropyltoluene	BRL		µg/l	1.0	1	"	"	"	"	
1634-04-4	Methyl tert-butyl ether	6.0		µg/l	1.0	1	"	"	"	"	
91-20-3	Naphthalene	BRL		µg/l	1.0	1	"	"	"	"	
103-65-1	n-Propylbenzene	BRL		µg/l	1.0	1	"	"	"	"	
108-88-3	Toluene	BRL		µg/l	1.0	1	"	"	"	"	
95-63-6	1,2,4-Trimethylbenzene	BRL		µg/l	1.0	1	"	"	"	"	
108-67-8	1,3,5-Trimethylbenzene	BRL		µg/l	1.0	1	"	"	"	"	
179601-23-1	m,p-Xylene	BRL		µg/l	2.0	1	"	"	"	"	
95-47-6	o-Xylene	BRL		µg/l	1.0	1	"	"	"	"	
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*97*		*70-130 %*			"	"	"	"	
2037-26-5	*Toluene-d8*	*100*		*70-130 %*			"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*106*		*70-130 %*			"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*104*		*70-130 %*			"	"	"	"	

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* Reportable Detection Limit BRL = Below Reporting Limit

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-4 SA81688-02	03-273-35M	Ground Water	16-Jul-08 09:23	17-Jul-08

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
Volatile Organic Compounds											
Volatile Organic Compounds by SW846 8260B											
Prepared by method SW846 5030 Water MS											
71-43-2	Benzene	BRL		µg/l	1.0	1	SW846 8260B	18-Jul-08	19-Jul-08	8071401	
104-51-8	n-Butylbenzene	BRL		µg/l	1.0	1	"	"	"	"	
135-98-8	sec-Butylbenzene	BRL		µg/l	1.0	1	"	"	"	"	
98-06-6	tert-Butylbenzene	BRL		µg/l	1.0	1	"	"	"	"	
100-41-4	Ethylbenzene	BRL		µg/l	1.0	1	"	"	"	"	
98-82-8	Isopropylbenzene	BRL		µg/l	1.0	1	"	"	"	"	
99-87-6	4-Isopropyltoluene	BRL		µg/l	1.0	1	"	"	"	"	
1634-04-4	Methyl tert-butyl ether	BRL		µg/l	1.0	1	"	"	"	"	
91-20-3	Naphthalene	BRL		µg/l	1.0	1	"	"	"	"	
103-65-1	n-Propylbenzene	BRL		µg/l	1.0	1	"	"	"	"	
108-88-3	Toluene	BRL		µg/l	1.0	1	"	"	"	"	
95-63-6	1,2,4-Trimethylbenzene	BRL		µg/l	1.0	1	"	"	"	"	
108-67-8	1,3,5-Trimethylbenzene	BRL		µg/l	1.0	1	"	"	"	"	
179601-23-1	m,p-Xylene	BRL		µg/l	2.0	1	"	"	"	"	
95-47-6	o-Xylene	BRL		µg/l	1.0	1	"	"	"	"	
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*97*		*70-130 %*			"	"	"	"	
2037-26-5	*Toluene-d8*	*100*		*70-130 %*			"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*106*		*70-130 %*			"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*105*		*70-130 %*			"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-5 SA81688-03	03-273-35M	Ground Water	16-Jul-08 10:00	17-Jul-08

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
Volatile Organic Compounds											
Volatile Organic Compounds by SW846 8260B											
Prepared by method SW846 5030 Water MS											
71-43-2	Benzene	BRL		µg/l	1.0	1	SW846 8260B	18-Jul-08	19-Jul-08	8071401	
104-51-8	n-Butylbenzene	BRL		µg/l	1.0	1	"	"	"	"	
135-98-8	sec-Butylbenzene	BRL		µg/l	1.0	1	"	"	"	"	
98-06-6	tert-Butylbenzene	BRL		µg/l	1.0	1	"	"	"	"	
100-41-4	Ethylbenzene	BRL		µg/l	1.0	1	"	"	"	"	
98-82-8	Isopropylbenzene	BRL		µg/l	1.0	1	"	"	"	"	
99-87-6	4-Isopropyltoluene	BRL		µg/l	1.0	1	"	"	"	"	
1634-04-4	Methyl tert-butyl ether	BRL		µg/l	1.0	1	"	"	"	"	
91-20-3	Naphthalene	BRL		µg/l	1.0	1	"	"	"	"	
103-65-1	n-Propylbenzene	BRL		µg/l	1.0	1	"	"	"	"	
108-88-3	Toluene	BRL		µg/l	1.0	1	"	"	"	"	
95-63-6	1,2,4-Trimethylbenzene	BRL		µg/l	1.0	1	"	"	"	"	
108-67-8	1,3,5-Trimethylbenzene	BRL		µg/l	1.0	1	"	"	"	"	
179601-23-1	m,p-Xylene	BRL		µg/l	2.0	1	"	"	"	"	
95-47-6	o-Xylene	BRL		µg/l	1.0	1	"	"	"	"	
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*97*		*70-130 %*			"	"	"	"	
2037-26-5	*Toluene-d8*	*101*		*70-130 %*			"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*107*		*70-130 %*			"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*106*		*70-130 %*			"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-1 SA81688-04	03-273-35M	Ground Water	16-Jul-08 11:14	17-Jul-08

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
Volatile Organic Compounds											
Volatile Organic Compounds by SW846 8260B											
Prepared by method SW846 5030 Water MS											
71-43-2	Benzene	BRL		µg/l	1.0	1	SW846 8260B	18-Jul-08	19-Jul-08	8071401	
104-51-8	n-Butylbenzene	BRL		µg/l	1.0	1	"	"	"	"	
135-98-8	sec-Butylbenzene	BRL		µg/l	1.0	1	"	"	"	"	
98-06-6	tert-Butylbenzene	BRL		µg/l	1.0	1	"	"	"	"	
100-41-4	Ethylbenzene	BRL		µg/l	1.0	1	"	"	"	"	
98-82-8	Isopropylbenzene	BRL		µg/l	1.0	1	"	"	"	"	
99-87-6	4-Isopropyltoluene	BRL		µg/l	1.0	1	"	"	"	"	
1634-04-4	Methyl tert-butyl ether	BRL		µg/l	1.0	1	"	"	"	"	
91-20-3	Naphthalene	BRL		µg/l	1.0	1	"	"	"	"	
103-65-1	n-Propylbenzene	BRL		µg/l	1.0	1	"	"	"	"	
108-88-3	Toluene	BRL		µg/l	1.0	1	"	"	"	"	
95-63-6	1,2,4-Trimethylbenzene	BRL		µg/l	1.0	1	"	"	"	"	
108-67-8	1,3,5-Trimethylbenzene	BRL		µg/l	1.0	1	"	"	"	"	
179601-23-1	m,p-Xylene	BRL		µg/l	2.0	1	"	"	"	"	
95-47-6	o-Xylene	BRL		µg/l	1.0	1	"	"	"	"	
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*97*		*70-130 %*			"	"	"	"	
2037-26-5	*Toluene-d8*	*101*		*70-130 %*			"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*107*		*70-130 %*			"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*106*		*70-130 %*			"	"	"	"	

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* Reportable Detection Limit BRL = Below Reporting Limit

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-2 SA81688-05	03-273-35M	Ground Water	16-Jul-08 11:59	17-Jul-08

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
Volatile Organic Compounds											
Volatile Organic Compounds by SW846 8260B											
Prepared by method SW846 5030 Water MS											
71-43-2	Benzene	109		µg/l	1.0	1	SW846 8260B	23-Jul-08	23-Jul-08	8071720	
104-51-8	n-Butylbenzene	4.9		µg/l	1.0	1	"	"	"	"	
135-98-8	sec-Butylbenzene	2.5		µg/l	1.0	1	"	"	"	"	
98-06-6	tert-Butylbenzene	BRL		µg/l	1.0	1	"	"	"	"	
100-41-4	Ethylbenzene	72.6		µg/l	1.0	1	"	"	"	"	
98-82-8	Isopropylbenzene	25.2		µg/l	1.0	1	"	"	"	"	
99-87-6	4-Isopropyltoluene	BRL		µg/l	1.0	1	"	"	"	"	
1634-04-4	Methyl tert-butyl ether	2.3		µg/l	1.0	1	"	"	"	"	
91-20-3	Naphthalene	7.6		µg/l	1.0	1	"	"	"	"	
103-65-1	n-Propylbenzene	45.6		µg/l	1.0	1	"	"	"	"	
108-88-3	Toluene	4.4		µg/l	1.0	1	"	"	"	"	
95-63-6	1,2,4-Trimethylbenzene	BRL		µg/l	1.0	1	"	"	"	"	
108-67-8	1,3,5-Trimethylbenzene	149		µg/l	1.0	1	"	"	"	"	
179601-23-1	m,p-Xylene	BRL		µg/l	2.0	1	"	"	"	"	
95-47-6	o-Xylene	8.4		µg/l	1.0	1	"	"	"	"	
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*103*		*70-130 %*			"	"	"	"	
2037-26-5	*Toluene-d8*	*98*		*70-130 %*			"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*95*		*70-130 %*			"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*98*		*70-130 %*			"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
Trip Blank SA81688-06	03-273-35M	Aqueous	16-Jul-08 00:00	17-Jul-08

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Cert.*
Volatile Organic Compounds											
Volatile Organic Compounds by SW846 8260B											
Prepared by method SW846 5030 Water MS											
71-43-2	Benzene	BRL		µg/l	1.0	1	SW846 8260B	18-Jul-08	19-Jul-08	8071401	
104-51-8	n-Butylbenzene	BRL		µg/l	1.0	1	"	"	"	"	
135-98-8	sec-Butylbenzene	BRL		µg/l	1.0	1	"	"	"	"	
98-06-6	tert-Butylbenzene	BRL		µg/l	1.0	1	"	"	"	"	
100-41-4	Ethylbenzene	BRL		µg/l	1.0	1	"	"	"	"	
98-82-8	Isopropylbenzene	BRL		µg/l	1.0	1	"	"	"	"	
99-87-6	4-Isopropyltoluene	BRL		µg/l	1.0	1	"	"	"	"	
1634-04-4	Methyl tert-butyl ether	BRL		µg/l	1.0	1	"	"	"	"	
91-20-3	Naphthalene	BRL		µg/l	1.0	1	"	"	"	"	
103-65-1	n-Propylbenzene	BRL		µg/l	1.0	1	"	"	"	"	
108-88-3	Toluene	BRL		µg/l	1.0	1	"	"	"	"	
95-63-6	1,2,4-Trimethylbenzene	BRL		µg/l	1.0	1	"	"	"	"	
108-67-8	1,3,5-Trimethylbenzene	BRL		µg/l	1.0	1	"	"	"	"	
179601-23-1	m,p-Xylene	BRL		µg/l	2.0	1	"	"	"	"	
95-47-6	o-Xylene	BRL		µg/l	1.0	1	"	"	"	"	
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*96*		*70-130 %*			"	"	"	"	
2037-26-5	*Toluene-d8*	*100*		*70-130 %*			"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*106*		*70-130 %*			"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*106*		*70-130 %*			"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
Duplicate SA81688-07	03-273-35M	Ground Water	16-Jul-08 10:05	17-Jul-08

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Cert.*
Volatile Organic Compounds											
Volatile Organic Compounds by SW846 8260B											
Prepared by method SW846 5030 Water MS											
71-43-2	Benzene	BRL		µg/l	1.0	1	SW846 8260B	18-Jul-08	19-Jul-08	8071401	
104-51-8	n-Butylbenzene	BRL		µg/l	1.0	1	"	"	"	"	
135-98-8	sec-Butylbenzene	BRL		µg/l	1.0	1	"	"	"	"	
98-06-6	tert-Butylbenzene	BRL		µg/l	1.0	1	"	"	"	"	
100-41-4	Ethylbenzene	BRL		µg/l	1.0	1	"	"	"	"	
98-82-8	Isopropylbenzene	BRL		µg/l	1.0	1	"	"	"	"	
99-87-6	4-Isopropyltoluene	BRL		µg/l	1.0	1	"	"	"	"	
1634-04-4	Methyl tert-butyl ether	BRL		µg/l	1.0	1	"	"	"	"	
91-20-3	Naphthalene	BRL		µg/l	1.0	1	"	"	"	"	
103-65-1	n-Propylbenzene	BRL		µg/l	1.0	1	"	"	"	"	
108-88-3	Toluene	BRL		µg/l	1.0	1	"	"	"	"	
95-63-6	1,2,4-Trimethylbenzene	BRL		µg/l	1.0	1	"	"	"	"	
108-67-8	1,3,5-Trimethylbenzene	BRL		µg/l	1.0	1	"	"	"	"	
179601-23-1	m,p-Xylene	BRL		µg/l	2.0	1	"	"	"	"	
95-47-6	o-Xylene	BRL		µg/l	1.0	1	"	"	"	"	
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*98*		*70-130 %*			"	"	"	"	
2037-26-5	*Toluene-d8*	*101*		*70-130 %*			"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*107*		*70-130 %*			"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*106*		*70-130 %*			"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
Field Blank SA81688-08	03-273-35M	Deionized Water	16-Jul-08 00:00	17-Jul-08

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Batch*	*Cert.*
Volatile Organic Compounds											
Volatile Organic Compounds by SW846 8260B											
Prepared by method SW846 5030 Water MS											
71-43-2	Benzene	BRL		µg/l	1.0	1	SW846 8260B	18-Jul-08	19-Jul-08	8071401	
104-51-8	n-Butylbenzene	BRL		µg/l	1.0	1	"	"	"	"	
135-98-8	sec-Butylbenzene	BRL		µg/l	1.0	1	"	"	"	"	
98-06-6	tert-Butylbenzene	BRL		µg/l	1.0	1	"	"	"	"	
100-41-4	Ethylbenzene	BRL		µg/l	1.0	1	"	"	"	"	
99-82-8	Isopropylbenzene	BRL		µg/l	1.0	1	"	"	"	"	
99-87-6	4-Isopropyltoluene	BRL		µg/l	1.0	1	"	"	"	"	
1634-04-4	Methyl tert-butyl ether	BRL		µg/l	1.0	1	"	"	"	"	
91-20-3	Naphthalene	BRL		µg/l	1.0	1	"	"	"	"	
103-65-1	n-Propylbenzene	BRL		µg/l	1.0	1	"	"	"	"	
108-88-3	Toluene	BRL		µg/l	1.0	1	"	"	"	"	
95-63-6	1,2,4-Trimethylbenzene	BRL		µg/l	1.0	1	"	"	"	"	
108-67-8	1,3,5-Trimethylbenzene	BRL		µg/l	1.0	1	"	"	"	"	
179601-23-1	m,p-Xylene	BRL		µg/l	2.0	1	"	"	"	"	
95-47-6	o-Xylene	BRL		µg/l	1.0	1	"	"	"	"	
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*97*		*70-130 %*			"	"	"	"	
2037-26-5	*Toluene-d8*	*101*		*70-130 %*			"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*105*		*70-130 %*			"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*106*		*70-130 %*			"	"	"	"	

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* Reportable Detection Limit BRL = Below Reporting Limit

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8071401 - SW846 5030 Water MS										
Blank (8071401-BLK1)										
Prepared & Analyzed: 18-Jul-08										
Benzene	BRL		µg/l	1.0						
n-Butylbenzene	BRL		µg/l	1.0						
sec-Butylbenzene	BRL		µg/l	1.0						
tert-Butylbenzene	BRL		µg/l	1.0						
Ethylbenzene	BRL		µg/l	1.0						
Isopropylbenzene	BRL		µg/l	1.0						
4-Isopropyltoluene	BRL		µg/l	1.0						
Methyl tert-butyl ether	BRL		µg/l	1.0						
Naphthalene	BRL		µg/l	1.0						
n-Propylbenzene	BRL		µg/l	1.0						
Toluene	BRL		µg/l	1.0						
1,2,4-Trimethylbenzene	BRL		µg/l	1.0						
1,3,5-Trimethylbenzene	BRL		µg/l	1.0						
m,p-Xylene	BRL		µg/l	2.0						
o-Xylene	BRL		µg/l	1.0						
Chlorobenzene	BRL		µg/l	1.0						
1,1-Dichloroethene	BRL		µg/l	1.0						
Trichloroethene	BRL		µg/l	1.0						
Surrogate: 4-Bromofluorobenzene	*49.0*		µg/l		*50.0*		*98*	*70-130*		
Surrogate: Toluene-d8	*49.6*		µg/l		*50.0*		*99*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*50.5*		µg/l		*50.0*		*101*	*70-130*		
Surrogate: Dibromofluoromethane	*51.6*		µg/l		*50.0*		*103*	*70-130*		
LCS (8071401-BS1)										
Prepared & Analyzed: 18-Jul-08										
Benzene	23.5		µg/l		20.0		118	70-130		
n-Butylbenzene	24.9		µg/l		20.0		125	70-130		
sec-Butylbenzene	26.3	QC1	µg/l		20.0		131	70-130		
tert-Butylbenzene	26.4	QC1	µg/l		20.0		132	70-130		
Ethylbenzene	24.6		µg/l		20.0		123	70-130		
Isopropylbenzene	23.5		µg/l		20.0		118	70-130		
4-Isopropyltoluene	26.1	QC1	µg/l		20.0		131	70-130		
Methyl tert-butyl ether	26.1		µg/l		20.0		130	70-130		
Naphthalene	23.8		µg/l		20.0		119	70-130		
n-Propylbenzene	25.2		µg/l		20.0		126	70-130		
Toluene	23.1		µg/l		20.0		115	70-130		
1,2,4-Trimethylbenzene	25.3		µg/l		20.0		126	70-130		
1,3,5-Trimethylbenzene	25.4		µg/l		20.0		127	70-130		
m,p-Xylene	50.8		µg/l		40.0		127	70-130		
o-Xylene	26.0		µg/l		20.0		130	70-130		
Surrogate: 4-Bromofluorobenzene	*51.7*		µg/l		*50.0*		*103*	*70-130*		
Surrogate: Toluene-d8	*49.8*		µg/l		*50.0*		*100*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*48.1*		µg/l		*50.0*		*96*	*70-130*		
Surrogate: Dibromofluoromethane	*50.3*		µg/l		*50.0*		*101*	*70-130*		
LCS Dup (8071401-BSD1)										
Prepared & Analyzed: 18-Jul-08										
Benzene	22.3		µg/l		20.0		111	70-130	5	25
n-Butylbenzene	23.2		µg/l		20.0		116	70-130	7	25
sec-Butylbenzene	25.1		µg/l		20.0		125	70-130	5	25
tert-Butylbenzene	25.1		µg/l		20.0		126	70-130	5	25
Ethylbenzene	23.3		µg/l		20.0		117	70-130	5	25

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8071401 - SW846 5030 Water MS										
LCS Dup (8071401-BSD1)										
Prepared & Analyzed: 18-Jul-08										
Isopropylbenzene	22.7		µg/l		20.0		113	70-130	4	25
4-Isopropyltoluene	24.6		µg/l		20.0		123	70-130	6	25
Methyl tert-butyl ether	25.8		µg/l		20.0		129	70-130	1	25
Naphthalene	22.3		µg/l		20.0		111	70-130	7	25
n-Propylbenzene	23.8		µg/l		20.0		119	70-130	6	25
Toluene	22.2		µg/l		20.0		111	70-130	4	25
1,2,4-Trimethylbenzene	24.2		µg/l		20.0		121	70-130	4	25
1,3,5-Trimethylbenzene	24.3		µg/l		20.0		122	70-130	4	25
m,p-Xylene	48.3		µg/l		40.0		121	70-130	5	25
o-Xylene	24.9		µg/l		20.0		125	70-130	4	25
Surrogate: 4-Bromofluorobenzene	*52.0*		µg/l		*50.0*		*104*	*70-130*		
Surrogate: Toluene-d8	*50.3*		µg/l		*50.0*		*101*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*48.1*		µg/l		*50.0*		*96*	*70-130*		
Surrogate: Dibromofluoromethane	*49.4*		µg/l		*50.0*		*99*	*70-130*		
Matrix Spike (8071401-MS1) Source: SA81688-07										
Prepared: 18-Jul-08 Analyzed: 19-Jul-08										
Benzene	11.7	QM7	µg/l		20.0	BRL	59	70-130		
Toluene	15.0		µg/l		20.0	BRL	75	70-130		
Chlorobenzene	16.9		µg/l		20.0	0.0	84	70-130		
1,1-Dichloroethene	4.2	QM7	µg/l		20.0	0.0	21	70-130		
Trichloroethene	17.9		µg/l		20.0	0.0	90	70-130		
Surrogate: 4-Bromofluorobenzene	*51.7*		µg/l		*50.0*		*103*	*70-130*		
Surrogate: Toluene-d8	*50.3*		µg/l		*50.0*		*101*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*51.6*		µg/l		*50.0*		*103*	*70-130*		
Surrogate: Dibromofluoromethane	*50.9*		µg/l		*50.0*		*102*	*70-130*		
Matrix Spike Dup (8071401-MSD1) Source: SA81688-07										
Prepared: 18-Jul-08 Analyzed: 19-Jul-08										
Benzene	11.1	QM7	µg/l		20.0	BRL	56	70-130	5	30
Toluene	14.4		µg/l		20.0	BRL	72	70-130	4	30
Chlorobenzene	16.6		µg/l		20.0	0.0	83	70-130	2	30
1,1-Dichloroethene	3.7	QM7	µg/l		20.0	0.0	19	70-130	11	30
Trichloroethene	16.5		µg/l		20.0	0.0	83	70-130	8	30
Surrogate: 4-Bromofluorobenzene	*51.8*		µg/l		*50.0*		*104*	*70-130*		
Surrogate: Toluene-d8	*50.5*		µg/l		*50.0*		*101*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*51.7*		µg/l		*50.0*		*103*	*70-130*		
Surrogate: Dibromofluoromethane	*51.3*		µg/l		*50.0*		*103*	*70-130*		
Batch 8071720 - SW846 5030 Water MS										
Blank (8071720-BLK1)										
Prepared & Analyzed: 23-Jul-08										
Benzene	BRL		µg/l	1.0						
n-Butylbenzene	BRL		µg/l	1.0						
sec-Butylbenzene	BRL		µg/l	1.0						
tert-Butylbenzene	BRL		µg/l	1.0						
Ethylbenzene	BRL		µg/l	1.0						
Isopropylbenzene	BRL		µg/l	1.0						
4-Isopropyltoluene	BRL		µg/l	1.0						
Methyl tert-butyl ether	BRL		µg/l	1.0						
Naphthalene	BRL		µg/l	1.0						
n-Propylbenzene	BRL		µg/l	1.0						
Toluene	BRL		µg/l	1.0						

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8071720 - SW846 5030 Water MS										
Blank (8071720-BLK1)										
Prepared & Analyzed: 23-Jul-08										
1,2,4-Trimethylbenzene	BRL		µg/l	1.0						
1,3,5-Trimethylbenzene	BRL		µg/l	1.0						
m,p-Xylene	BRL		µg/l	2.0						
o-Xylene	BRL		µg/l	1.0						
Chlorobenzene	BRL		µg/l	1.0						
1,1-Dichloroethene	BRL		µg/l	1.0						
Trichloroethene	BRL		µg/l	1.0						
Surrogate: 4-Bromofluorobenzene	*49.4*		µg/l		*50.0*		*99*	*70-130*		
Surrogate: Toluene-d8	*49.8*		µg/l		*50.0*		*100*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*48.6*		µg/l		*50.0*		*97*	*70-130*		
Surrogate: Dibromofluoromethane	*50.6*		µg/l		*50.0*		*101*	*70-130*		
LCS (8071720-BS1)										
Prepared & Analyzed: 23-Jul-08										
Benzene	20.9		µg/l		20.0		104	70-130		
n-Butylbenzene	20.8		µg/l		20.0		104	70-130		
sec-Butylbenzene	23.8		µg/l		20.0		119	70-130		
tert-Butylbenzene	24.2		µg/l		20.0		121	70-130		
Ethylbenzene	21.8		µg/l		20.0		109	70-130		
Isopropylbenzene	21.2		µg/l		20.0		106	70-130		
4-Isopropyltoluene	23.2		µg/l		20.0		116	70-130		
Methyl tert-butyl ether	21.2		µg/l		20.0		106	70-130		
Naphthalene	20.4		µg/l		20.0		102	70-130		
n-Propylbenzene	21.8		µg/l		20.0		109	70-130		
Toluene	20.6		µg/l		20.0		103	70-130		
1,2,4-Trimethylbenzene	22.9		µg/l		20.0		114	70-130		
1,3,5-Trimethylbenzene	23.2		µg/l		20.0		116	70-130		
m,p-Xylene	45.4		µg/l		40.0		114	70-130		
o-Xylene	23.2		µg/l		20.0		116	70-130		
Surrogate: 4-Bromofluorobenzene	*50.9*		µg/l		*50.0*		*102*	*70-130*		
Surrogate: Toluene-d8	*50.6*		µg/l		*50.0*		*101*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*47.9*		µg/l		*50.0*		*96*	*70-130*		
Surrogate: Dibromofluoromethane	*50.9*		µg/l		*50.0*		*102*	*70-130*		
LCS Dup (8071720-BSD1)										
Prepared & Analyzed: 23-Jul-08										
Benzene	20.2		µg/l		20.0		101	70-130	4	25
n-Butylbenzene	19.6		µg/l		20.0		98	70-130	6	25
sec-Butylbenzene	22.9		µg/l		20.0		114	70-130	4	25
tert-Butylbenzene	23.2		µg/l		20.0		116	70-130	4	25
Ethylbenzene	20.9		µg/l		20.0		105	70-130	4	25
Isopropylbenzene	20.2		µg/l		20.0		101	70-130	5	25
4-Isopropyltoluene	21.9		µg/l		20.0		110	70-130	6	25
Methyl tert-butyl ether	21.0		µg/l		20.0		105	70-130	0.8	25
Naphthalene	20.9		µg/l		20.0		104	70-130	2	25
n-Propylbenzene	20.7		µg/l		20.0		103	70-130	6	25
Toluene	19.9		µg/l		20.0		100	70-130	3	25
1,2,4-Trimethylbenzene	22.0		µg/l		20.0		110	70-130	4	25
1,3,5-Trimethylbenzene	22.2		µg/l		20.0		111	70-130	4	25
m,p-Xylene	44.0		µg/l		40.0		110	70-130	3	25
o-Xylene	22.3		µg/l		20.0		111	70-130	4	25
Surrogate: 4-Bromofluorobenzene	*51.5*		µg/l		*50.0*		*103*	*70-130*		

This laboratory report is not valid without an authorized signature on the cover page.

* Reportable Detection Limit BRL = Below Reporting Limit

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8071720 - SW846 5030 Water MS										
LCS Dup (8071720-BSD1)										
Prepared & Analyzed: 23-Jul-08										
Surrogate: Toluene-d8	*50.4*		µg/l		*50.0*		*101*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*46.0*		µg/l		*50.0*		*92*	*70-130*		
Surrogate: Dibromofluoromethane	*48.0*		µg/l		*50.0*		*96*	*70-130*		
Matrix Spike (8071720-MS1) Source: SA81849-01										
Prepared & Analyzed: 23-Jul-08										
Benzene	14.5		µg/l		20.0	BRL	73	70-130		
Toluene	14.9		µg/l		20.0	BRL	75	70-130		
Chlorobenzene	16.4		µg/l		20.0	0.0	82	70-130		
1,1-Dichloroethene	16.9		µg/l		20.0	0.0	84	70-130		
Trichloroethene	16.0		µg/l		20.0	0.0	80	70-130		
Surrogate: 4-Bromofluorobenzene	*52.1*		µg/l		*50.0*		*104*	*70-130*		
Surrogate: Toluene-d8	*49.5*		µg/l		*50.0*		*99*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*51.6*		µg/l		*50.0*		*103*	*70-130*		
Surrogate: Dibromofluoromethane	*50.7*		µg/l		*50.0*		*101*	*70-130*		
Matrix Spike Dup (8071720-MSD1) Source: SA81849-01										
Prepared & Analyzed: 23-Jul-08										
Benzene	14.5		µg/l		20.0	BRL	73	70-130	0.1	30
Toluene	14.9		µg/l		20.0	BRL	75	70-130	0.1	30
Chlorobenzene	16.2		µg/l		20.0	0.0	81	70-130	1	30
1,1-Dichloroethene	16.7		µg/l		20.0	0.0	84	70-130	1	30
Trichloroethene	16.2		µg/l		20.0	0.0	81	70-130	1	30
Surrogate: 4-Bromofluorobenzene	*51.1*		µg/l		*50.0*		*102*	*70-130*		
Surrogate: Toluene-d8	*49.4*		µg/l		*50.0*		*99*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*51.2*		µg/l		*50.0*		*102*	*70-130*		
Surrogate: Dibromofluoromethane	*50.8*		µg/l		*50.0*		*102*	*70-130*		

Notes and Definitions

QC1	Analyte out of acceptance range.
QM7	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
BRL	Below Reporting Limit - Analyte NOT DETECTED at or above the reporting limit
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference

A plus sign (+) in the Method Reference column indicates the method is not accredited by NELAC

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix

Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure The method blank is used to document contamination resulting from the analytical process

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

Validated by:
Hanibal C. Tayeh, Ph.D.
Nicole Brown

State Of Connecticut
Department of Environmental Protection
Laboratory Quality Control and Quality Assurance Form

Laboratory Name: Spectrum Analytical, Inc. - Agawam, MA	Project Name and Number:
Project Location: DOT-Litchfield, CT	DOT-Litchfield, CT/ 03-273-35M
This Form Provides certifications for the following data set: SA81688-01 SA81688-02 SA81688-03 SA81688-04 SA81688-05 SA81688-06 SA81688-07 SA81688-08	List Specific Analytical Methods Used: SW846 8260B
Sample Matrices: Aqueous	

A	Were all samples received by the laboratory in a condition consistent with that described on the Chain of Custody documentation for the data set?	☑ Yes ☐ No
B	Were all QA/QC procedures required for the specified analytical method(s) included in this report followed?	☑ Yes ☐ No
C	Were all QC performance standards and recommendations for the specified methods achieved?	☑ Yes ☐ No
D	Were results for all analyte-list compounds/elements for the specified method(s) reported?	☐ Yes ☑ No *

* The compounds and/or elements reported are as specifically requested by the client on the Chain of Custody and in some cases may not include the full analyte list as defined in the method

Negative responses for A, B and C are addressed in a case narrative on the cover page of this report.

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

Hanibal C. Tayeh, Ph.D.
President/Laboratory Director

Date: 7/24/2008

This laboratory report is not valid without an authorized signature on the cover page.

* Reportable Detection Limit BRL = Below Reporting Limit

Reasonable Confidence Protocols
Laboratory Analysis
QA/QC Certification Form

Laboratory Name: Spectrum Analytical, Inc. - Agawam, MA **Client:** Diversified Technology Consultants

Project Location: DOT-Litchfield, CT **Project Number:** 03-273-35M

Sampling Date(s): 16-Jul-08

Laboratory Sample ID(s): SA81688-01 through SA81688-08

RCP Methods Used: SW846 8260B

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 CT DEP method-specific Reasonable Confidence Protocol documents?	☑ Yes ☐ No
1A	Were the method specified preservation and holding time requirements met?	☑ Yes ☐ No
1B	***VPH and EPH methods only***: Was the VPH or EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)? * ** These methods have not yet been approved for release by CT DEP*	☐ Yes ☐ No ☑ 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)?	☑ Yes ☐ No
3	Were samples received at an appropriate temperature?	☐ Yes ☑ No ☐ N/A
4	Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved?	☑ Yes ☐ No
5	a) Were reporting limits specified or referenced on the chain-of-custody? * b) Were these reporting limits met? ** Exceptions are defined by qualifiers*	☑ Yes ☐ No ☑ Yes ☐ 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?	☐ Yes ☑ No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	☑ Yes ☐ No

Note: 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."

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 obtaining the information contained in this analytical report, such information is accurate and complete.

Hanibal C. Tayeh, Ph.D.
President/Laboratory Director

Date: 7/24/2008

SA 81688

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 1 of 1

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: DTC
556 Washington Ave
Northaven, CT 06473

Project Mgr.: Chris Koelle

Invoice To: Same

P.O. No.: _____ RQN: _____

Project No.: 03-273-35 M
Site Name: DOT-Litchfield
Location: Litchfield, CT State: CT
Sampler(s): D. Birdsey

1=$Na_2S_2O_3$ 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid
7=CH_3OH 8=$NaHSO_4$ 9=_____ 10=_____

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

QA Reporting Notes: (check if needed)
- ☐ Provide MA DEP MCP CAM Report
- ☒ Provide CT DEP RCP Report

QA/QC Reporting Level
- ☒ Standard ☐ No QC
- ☐ Other _____

State specific reporting standards: GWPC / RSBVC

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Preservative	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic		Aromatic VOC's 524.2+MTBE							
81688-01	MW-3	7-16-08	0834		GW	2	3					X							
-02	MW-4	7-16-08	0923		GW	2	3					X							
-03	MW-5	7-16-08	1000		GW	2	3					X							
-04	MW-1	7-16-08	1114		GW	2	3					X							
-05	MW-2	7-16-08	1159		GW	2	3					X							
-06	Trip Blank	7-16-08				2	1					X							
-07	Duplicate	7-16-08	1005		GW	2	3					X							
-08	Field Blank	7-16-08			RS	2	3					X							

☐ Fax results when available to (____) _____
☒ E-mail to chris.koelle@teamdtc.com
EDD Format _____
Condition upon receipt: ☐ Iced ☐ Ambient ☐ °C

Relinquished by:	Received by:	Date:	Time:
[signature]	[signature]	7/17/08	945
[signature]	Michael Graham	7-17-08	1505

APPENDIX E

Soil Vapor Analytical Laboratory Report

con-test®
ANALYTICAL LABORATORY

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

REPORT DATE 11/3/2008

DIVERSIFIED TECHNOLOGY CONSULTANTS
556 WASHINGTON AVENUE
NORTH HAVEN, CT 06473
ATTN: CHRIS KOELLE

CONTRACT NUMBER:
PURCHASE ORDER NUMBER:

PROJECT NUMBER: 03-273-35E

ANALYTICAL SUMMARY

LIMS BAT #: LIMT-20877
JOB NUMBER: 03-273-35E

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.
Results are based on samples as submitted to the laboratory and relate only to the items collected and tested.

PROJECT LOCATION: CONN DOT LITCHFIELD

FIELD SAMPLE #	LAB ID	MATRIX	SAMPLE DESCRIPTION	TEST	Subcontract Lab (if any) Cert. Nos.
*DUPLICATE	08B43499	AIR	Not Specified	to-15 ppbv rcp	
*DUPLICATE	08B43499	AIR	Not Specified	to-15 ug/m3 rcp	
*SV-1	08B43496	AIR	Not Specified	to-15 ppbv rcp	
*SV-1	08B43496	AIR	Not Specified	to-15 ug/m3 rcp	
*SV-2	08B43497	AIR	Not Specified	to-15 ppbv rcp	
*SV-2	08B43497	AIR	Not Specified	to-15 ug/m3 rcp	
*SV-3	08B43498	AIR	Not Specified	to-15 ppbv rcp	
*SV-3	08B43498	AIR	Not Specified	to-15 ug/m3 rcp	

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

REPORT DATE 11/3/2008

DIVERSIFIED TECHNOLOGY CONSULTANTS
556 WASHINGTON AVENUE
NORTH HAVEN, CT 06473
ATTN: CHRIS KOELLE

CONTRACT NUMBER:
PURCHASE ORDER NUMBER:

PROJECT NUMBER: 03-273-35E

ANALYTICAL SUMMARY

LIMS BAT #: LIMT-20877
JOB NUMBER: 03-273-35E

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report. Results are based on samples as submitted to the laboratory and relate only to the items collected and tested.

Comments :

LIMS BATCH NO. : LIMT-20877

CASE NARRATIVE SUMMARY

In method TO-15, any reported result for isopropylbenzene and p-isopropyltoluene is likely to be biased on the high side based on laboratory fortified blank recovery bias.

There are no other analytical issues that affect the usability of the data.

METHOD TO-15 - ADDITIONAL DETAILS

All TO-15 samples were analyzed undiluted unless specified below:
If dilutions were performed only one dilution within the linear calibrated region of the curve is reported.

Sample	Dilution	Compound(s)
08B43496	1x	All
08B43497	1x	All
08B43498	1x	All
08B43499	1x	All
blank-125854	0.4x=1000ml sample	All

Initial and continuing calibrations met all required performance standards for RCP compounds that are Title III Clean Air Act Amendment compounds listed in table 1 of the TO-15 method unless otherwise specified in this narrative.

Laboratory control sample recoveries and sample replicate RPDs were all within limits specified by the method for RCP compounds that are Title III Clean Air Act Amendment compounds listed in table 1 of the TO-15 method unless otherwise specified in this narrative. Recovery limits of 50-150% are used for propene, acetone, ethanol, isopropanol, ethyl acetate, tetrahydrofuran, cyclohexane, heptane, 2-hexanone, 4-ethyltoluene, n-butylbenzene, sec-butylbenzene, 4-isopropyltoluene, and 1,1,1,2-tetrachloroethane.

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations. AIHA accreditations only apply to NIOSH methods and Environmental Lead Analyses.

AIHA 100033	AIHA ELLAP (LEAD) 100033	NORTH CAROLINA CERT. # 652
MASSACHUSETTS MA0100	NEW HAMPSHIRE NELAP 2516	NEW JERSEY NELAP NJ MA007 (AIR)
CONNECTICUT PH-0567	VERMONT DOH (LEAD) No. LL015036	FLORIDA DOH E871027 (AIR)
NEW YORK ELAP/NELAP 10899	RHODE ISLAND (LIC. No. 112)	

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.

Edward Denson 11/3/08

SIGNATURE DATE

Tod Kopyscinski
Air Laboratory Manager

Lisa Dagnoli
General Manager

con-test®
ANALYTICAL LABORATORY

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

REPORT DATE 11/3/2008

DIVERSIFIED TECHNOLOGY CONSULTANTS
556 WASHINGTON AVENUE
NORTH HAVEN, CT 06473
ATTN: CHRIS KOELLE

CONTRACT NUMBER:
PURCHASE ORDER NUMBER:

PROJECT NUMBER: 03-273-35E

ANALYTICAL SUMMARY

LIMS BAT #: LIMT-20877
JOB NUMBER: 03-273-35E

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.
Results are based on samples as submitted to the laboratory and relate only to the items collected and tested.

Edward Denson
Technical Director

Daren Damboragian
Organics Department Supervisor

* See end of data tabulation for notes and comments pertaining to this sample

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

CHRIS KOELLE
DIVERSIFIED TECHNOLOGY CONSULTANTS
556 WASHINGTON AVENUE
NORTH HAVEN, CT 06473

11/3/2008

Purchase Order No.:

Project Number: 03-273-35E
LIMS-BAT #: LIMT-20877
Job Number: 03-273-35E

Project Location: CONN DOT LITCHFIELD
Date Received: 10/27/2008
Field Sample # : DUPLICATE

Sample ID : 08B43499
‡Sampled : 10/24/2008
Not Specified

Sample Matrix: AIR
Sample Medium : SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
Acetone	PPBv	NM	10/30/08	WSD				
Acrylonitrile	PPBv	NM	10/30/08	WSD				
Benzene	PPBv	ND	10/30/08	WSD	0.50			
Bromodichloromethane	PPBv	NM	10/30/08	WSD				
Bromoform	PPBv	NM	10/30/08	WSD				
2-Butanone (MEK)	PPBv	NM	10/30/08	WSD				
n-Butylbenzene	PPBv	ND	10/30/08	WSD	0.58			
sec-Butylbenzene	PPBv	ND	10/30/08	WSD	0.58			
Carbon Tetrachloride	PPBv	NM	10/30/08	WSD				
Chlorobenzene	PPBv	ND	10/30/08	WSD	0.50			
Chlorodibromomethane	PPBv	NM	10/30/08	WSD				
Chloroethane	PPBv	NM	10/30/08	WSD				
Chloroform	PPBv	NM	10/30/08	WSD				
Chloromethane	PPBv	NM	10/30/08	WSD				
1,2-Dibromoethane	PPBv	NM	10/30/08	WSD				
1,2-Dichlorobenzene	PPBv	ND	10/30/08	WSD	0.50			
1,3-Dichlorobenzene	PPBv	ND	10/30/08	WSD	0.50			
1,4-Dichlorobenzene	PPBv	0.66	10/30/08	WSD	0.50			
Dichlorodifluoromethane	PPBv	NM	10/30/08	WSD				
1,1-Dichloroethane	PPBv	NM	10/30/08	WSD				
1,2-Dichloroethane	PPBv	NM	10/30/08	WSD				
1,1-Dichloroethylene	PPBv	NM	10/30/08	WSD				
cis-1,2-Dichloroethylene	PPBv	NM	10/30/08	WSD				
t-1,2-Dichloroethylene	PPBv	NM	10/30/08	WSD				
1,2-Dichloropropane	PPBv	NM	10/30/08	WSD				
1,3-Dichloropropane	PPBv	NM	10/30/08	WSD				
cis-1,3-Dichloropropene	PPBv	NM	10/30/08	WSD				
trans-1,3-Dichloropropene	PPBv	NM	10/30/08	WSD				
Ethylbenzene	PPBv	ND	10/30/08	WSD	0.50			

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

* = See end of report for comments and notes applying to this sample

‡ = *See attached chain-of-custody record for time sampled*

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11/3/2008

Purchase Order No.:

Project Number: 03-273-35E
LIMS-BAT #: LIMT-20877
Job Number: 03-273-35E

Project Location: CONN DOT LITCHFIELD
Date Received: 10/27/2008
Field Sample # : DUPLICATE

Sample ID : 08B43499

‡Sampled : 10/24/2008
Not Specified

Sample Matrix: AIR
Sample Medium : SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	Hi	P/ F
Isopropylbenzene	PPBv	ND	10/30/08	WSD	0.65			
p-Isopropyltoluene	PPBv	ND	10/30/08	WSD	0.58			
Methyl tert-Butyl Ether (MTBE)	PPBv	NM	10/30/08	WSD				
Methylene Chloride	PPBv	NM	10/30/08	WSD				
4-Methyl-2-Pentanone (MIBK)	PPBv	NM	10/30/08	WSD				
Styrene	PPBv	0.75	10/30/08	WSD	0.50			
1,1,1,2-Tetrachloroethane	PPBv	NM	10/30/08	WSD				
1,1,2,2-Tetrachloroethane	PPBv	NM	10/30/08	WSD				
Tetrachloroethylene	PPBv	NM	10/30/08	WSD				
Toluene	PPBv	5.9	10/30/08	WSD	0.50			
1,1,1-Trichloroethane	PPBv	NM	10/30/08	WSD				
1,1,2-Trichloroethane	PPBv	NM	10/30/08	WSD				
Trichloroethylene	PPBv	NM	10/30/08	WSD				
Trichlorofluoromethane (Freon 11)	PPBv	NM	10/30/08	WSD				
1,2,4-Trimethylbenzene	PPBv	0.98	10/30/08	WSD	0.50			
1,3,5-Trimethylbenzene	PPBv	ND	10/30/08	WSD	0.50			
Vinyl Chloride	PPBv	NM	10/30/08	WSD				
m/p-Xylene	PPBv	1.6	10/30/08	WSD	1.0			
o-Xylene	PPBv	0.70	10/30/08	WSD	0.50			

Analytical Method:
EPA TO-15
SAMPLES ARE TAKEN IN SUMMA CANISTERS AND ANALYZED BY GAS CHROMATOGRAPHY WITH MASS SPECTROMETRY DETECTION. (GC/MS)

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11/3/2008

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Project Number: 03-273-35E
LIMS-BAT #: LIMT-20877
Job Number: 03-273-35E

Project Location: CONN DOT LITCHFIELD
Date Received: 10/27/2008
Field Sample # : SV-1

Sample ID : 08B43496
‡Sampled : 10/24/2008
Not Specified
Sample Matrix: AIR
Sample Medium : SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
Acetone	PPBv	NM	10/30/08	WSD				
Acrylonitrile	PPBv	NM	10/30/08	WSD				
Benzene	PPBv	ND	10/30/08	WSD	0.50			
Bromodichloromethane	PPBv	NM	10/30/08	WSD				
Bromoform	PPBv	NM	10/30/08	WSD				
2-Butanone (MEK)	PPBv	NM	10/30/08	WSD				
n-Butylbenzene	PPBv	ND	10/30/08	WSD	0.58			
sec-Butylbenzene	PPBv	1.4	10/30/08	WSD	0.58			
Carbon Tetrachloride	PPBv	NM	10/30/08	WSD				
Chlorobenzene	PPBv	ND	10/30/08	WSD	0.50			
Chlorodibromomethane	PPBv	NM	10/30/08	WSD				
Chloroethane	PPBv	NM	10/30/08	WSD				
Chloroform	PPBv	NM	10/30/08	WSD				
Chloromethane	PPBv	NM	10/30/08	WSD				
1,2-Dibromoethane	PPBv	NM	10/30/08	WSD				
1,2-Dichlorobenzene	PPBv	ND	10/30/08	WSD	0.50			
1,3-Dichlorobenzene	PPBv	ND	10/30/08	WSD	0.50			
1,4-Dichlorobenzene	PPBv	ND	10/30/08	WSD	0.50			
Dichlorodifluoromethane	PPBv	NM	10/30/08	WSD				
1,1-Dichloroethane	PPBv	NM	10/30/08	WSD				
1,2-Dichloroethane	PPBv	NM	10/30/08	WSD				
1,1-Dichloroethylene	PPBv	NM	10/30/08	WSD				
cis-1,2-Dichloroethylene	PPBv	NM	10/30/08	WSD				
t-1,2-Dichloroethylene	PPBv	NM	10/30/08	WSD				
1,2-Dichloropropane	PPBv	NM	10/30/08	WSD				
1,3-Dichloropropane	PPBv	NM	10/30/08	WSD				
cis-1,3-Dichloropropene	PPBv	NM	10/30/08	WSD				
trans-1,3-Dichloropropene	PPBv	NM	10/30/08	WSD				
Ethylbenzene	PPBv	1.8	10/30/08	WSD	0.50			

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11/3/2008

Purchase Order No.:

Project Number: 03-273-35E
LIMS-BAT #: LIMT-20877
Job Number: 03-273-35E

Project Location: CONN DOT LITCHFIELD
Date Received: 10/27/2008
Field Sample # : SV-2

Sample ID : 08B43497

‡Sampled : 10/24/2008
Not Specified

Sample Matrix: AIR
Sample Medium : SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
Isopropylbenzene	PPBv	ND	10/30/08	WSD	0.65			
p-Isopropyltoluene	PPBv	ND	10/30/08	WSD	0.58			
Methyl tert-Butyl Ether (MTBE)	PPBv	NM	10/30/08	WSD				
Methylene Chloride	PPBv	NM	10/30/08	WSD				
4-Methyl-2-Pentanone (MIBK)	PPBv	NM	10/30/08	WSD				
Styrene	PPBv	ND	10/30/08	WSD	0.50			
1,1,1,2-Tetrachloroethane	PPBv	NM	10/30/08	WSD				
1,1,2,2-Tetrachloroethane	PPBv	NM	10/30/08	WSD				
Tetrachloroethylene	PPBv	NM	10/30/08	WSD				
Toluene	PPBv	1.5	10/30/08	WSD	0.50			
1,1,1-Trichloroethane	PPBv	NM	10/30/08	WSD				
1,1,2-Trichloroethane	PPBv	NM	10/30/08	WSD				
Trichloroethylene	PPBv	NM	10/30/08	WSD				
Trichlorofluoromethane (Freon 11)	PPBv	NM	10/30/08	WSD				
1,2,4-Trimethylbenzene	PPBv	0.79	10/30/08	WSD	0.50			
1,3,5-Trimethylbenzene	PPBv	ND	10/30/08	WSD	0.50			
Vinyl Chloride	PPBv	NM	10/30/08	WSD				
m/p-Xylene	PPBv	1.8	10/30/08	WSD	1.0			
o-Xylene	PPBv	0.74	10/30/08	WSD	0.50			

Analytical Method:
EPA TO-15
SAMPLES ARE TAKEN IN SUMMA CANISTERS AND ANALYZED BY GAS CHROMATOGRAPHY WITH MASS SPECTROMETRY DETECTION. (GC/MS)

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11/3/2008

Purchase Order No.:

Project Number: 03-273-35E
LIMS-BAT #: LIMT-20877
Job Number: 03-273-35E

Project Location: CONN DOT LITCHFIELD
Date Received: 10/27/2008
Field Sample # : SV-3

Sample ID : 08B43498

‡Sampled : 10/24/2008
Not Specified

Sample Matrix: AIR
Sample Medium : SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
Acetone	PPBv	NM	10/30/08	WSD				
Acrylonitrile	PPBv	NM	10/30/08	WSD				
Benzene	PPBv	ND	10/30/08	WSD	0.50			
Bromodichloromethane	PPBv	NM	10/30/08	WSD				
Bromoform	PPBv	NM	10/30/08	WSD				
2-Butanone (MEK)	PPBv	NM	10/30/08	WSD				
n-Butylbenzene	PPBv	ND	10/30/08	WSD	0.58			
sec-Butylbenzene	PPBv	ND	10/30/08	WSD	0.58			
Carbon Tetrachloride	PPBv	NM	10/30/08	WSD				
Chlorobenzene	PPBv	ND	10/30/08	WSD	0.50			
Chlorodibromomethane	PPBv	NM	10/30/08	WSD				
Chloroethane	PPBv	NM	10/30/08	WSD				
Chloroform	PPBv	NM	10/30/08	WSD				
Chloromethane	PPBv	NM	10/30/08	WSD				
1,2-Dibromoethane	PPBv	NM	10/30/08	WSD				
1,2-Dichlorobenzene	PPBv	ND	10/30/08	WSD	0.50			
1,3-Dichlorobenzene	PPBv	ND	10/30/08	WSD	0.50			
1,4-Dichlorobenzene	PPBv	0.66	10/30/08	WSD	0.50			
Dichlorodifluoromethane	PPBv	NM	10/30/08	WSD				
1,1-Dichloroethane	PPBv	NM	10/30/08	WSD				
1,2-Dichloroethane	PPBv	NM	10/30/08	WSD				
1,1-Dichloroethylene	PPBv	NM	10/30/08	WSD				
cis-1,2-Dichloroethylene	PPBv	NM	10/30/08	WSD				
t-1,2-Dichloroethylene	PPBv	NM	10/30/08	WSD				
1,2-Dichloropropane	PPBv	NM	10/30/08	WSD				
1,3-Dichloropropane	PPBv	NM	10/30/08	WSD				
cis-1,3-Dichloropropene	PPBv	NM	10/30/08	WSD				
trans-1,3-Dichloropropene	PPBv	NM	10/30/08	WSD				
Ethylbenzene	PPBv	ND	10/30/08	WSD	0.50			

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11/3/2008

Purchase Order No.:

Project Number: 03-273-35E
LIMS-BAT #: LIMT-20877
Job Number: 03-273-35E

Project Location: CONN DOT LITCHFIELD
Date Received: 10/27/2008
Field Sample # : SV-3

Sample ID : 08B43498
‡Sampled : 10/24/2008
Not Specified

Sample Matrix: AIR
Sample Medium : SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
Isopropylbenzene	PPBv	ND	10/30/08	WSD	0.65			
p-Isopropyltoluene	PPBv	ND	10/30/08	WSD	0.58			
Methyl tert-Butyl Ether (MTBE)	PPBv	NM	10/30/08	WSD				
Methylene Chloride	PPBv	NM	10/30/08	WSD				
4-Methyl-2-Pentanone (MIBK)	PPBv	NM	10/30/08	WSD				
Styrene	PPBv	0.76	10/30/08	WSD	0.50			
1,1,1,2-Tetrachloroethane	PPBv	NM	10/30/08	WSD				
1,1,2,2-Tetrachloroethane	PPBv	NM	10/30/08	WSD				
Tetrachloroethylene	PPBv	NM	10/30/08	WSD				
Toluene	PPBv	5.9	10/30/08	WSD	0.50			
1,1,1-Trichloroethane	PPBv	NM	10/30/08	WSD				
1,1,2-Trichloroethane	PPBv	NM	10/30/08	WSD				
Trichloroethylene	PPBv	NM	10/30/08	WSD				
Trichlorofluoromethane (Freon 11)	PPBv	NM	10/30/08	WSD				
1,2,4-Trimethylbenzene	PPBv	0.99	10/30/08	WSD	0.50			
1,3,5-Trimethylbenzene	PPBv	ND	10/30/08	WSD	0.50			
Vinyl Chloride	PPBv	NM	10/30/08	WSD				
m/p-Xylene	PPBv	1.6	10/30/08	WSD	1.0			
o-Xylene	PPBv	0.71	10/30/08	WSD	0.50			

Analytical Method:
EPA TO-15
SAMPLES ARE TAKEN IN SUMMA CANISTERS AND ANALYZED BY GAS CHROMATOGRAPHY WITH MASS SPECTROMETRY DETECTION. (GC/MS)

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11/3/2008

Purchase Order No.:

Project Number: 03-273-35E
LIMS-BAT #: LIMT-20877
Job Number: 03-273-35E

Project Location: CONN DOT LITCHFIELD
Date Received: 10/27/2008
Field Sample # : DUPLICATE

Sample ID : *08B43499 ‡Sampled : 10/24/2008
Not Specified

Sample Matrix: AIR Sample Medium : SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
Acetone	ug/m3	NM	10/30/08	WSD				
Acrylonitrile	ug/m3	NM	10/30/08	WSD				
Benzene	ug/m3	ND	10/30/08	WSD	1.6			
Bromodichloromethane	ug/m3	NM	10/30/08	WSD				
Bromoform	ug/m3	NM	10/30/08	WSD				
2-Butanone (MEK)	ug/m3	NM	10/30/08	WSD				
n-Butylbenzene	ug/m3	ND	10/30/08	WSD	3.2			
sec-Butylbenzene	ug/m3	ND	10/30/08	WSD	3.2			
Carbon Tetrachloride	ug/m3	NM	10/30/08	WSD				
Chlorobenzene	ug/m3	ND	10/30/08	WSD	2.3			
Chlorodibromomethane	ug/m3	NM	10/30/08	WSD				
Chloroethane	ug/m3	NM	10/30/08	WSD				
Chloroform	ug/m3	NM	10/30/08	WSD				
Chloromethane	ug/m3	NM	10/30/08	WSD				
1,2-Dibromoethane	ug/m3	NM	10/30/08	WSD				
1,2-Dichlorobenzene	ug/m3	ND	10/30/08	WSD	3.0			
1,3-Dichlorobenzene	ug/m3	ND	10/30/08	WSD	3.0			
1,4-Dichlorobenzene	ug/m3	4.0	10/30/08	WSD	3.0			
Dichlorodifluoromethane	ug/m3	NM	10/30/08	WSD				
1,1-Dichloroethane	ug/m3	NM	10/30/08	WSD				
1,2-Dichloroethane	ug/m3	NM	10/30/08	WSD				
1,1-Dichloroethylene	ug/m3	NM	10/30/08	WSD				
cis-1,2-Dichloroethylene	ug/m3	NM	10/30/08	WSD				
t-1,2-Dichloroethylene	ug/m3	NM	10/30/08	WSD				
1,2-Dichloropropane	ug/m3	NM	10/30/08	WSD				
1,3-Dichloropropane	ug/m3	NM	10/30/08	WSD				
cis-1,3-Dichloropropene	ug/m3	NM	10/30/08	WSD				
trans-1,3-Dichloropropene	ug/m3	NM	10/30/08	WSD				
Ethylbenzene	ug/m3	ND	10/30/08	WSD	2.2			

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11/3/2008

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Project Number: 03-273-35E
LIMS-BAT #: LIMT-20877
Job Number: 03-273-35E

Project Location: CONN DOT LITCHFIELD
Date Received: 10/27/2008
Field Sample # : DUPLICATE

Sample ID : *08B43499

‡Sampled : 10/24/2008
Not Specified

Sample Matrix: AIR
Sample Medium : SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
Isopropylbenzene	ug/m3	ND	10/30/08	WSD	3.2			
p-Isopropyltoluene	ug/m3	ND	10/30/08	WSD	3.2			
Methyl tert-Butyl Ether (MTBE)	ug/m3	NM	10/30/08	WSD				
Methylene Chloride	ug/m3	NM	10/30/08	WSD				
4-Methyl-2-Pentanone (MIBK)	ug/m3	NM	10/30/08	WSD				
Styrene	ug/m3	3.2	10/30/08	WSD	2.2			
1,1,1,2-Tetrachloroethane	ug/m3	NM	10/30/08	WSD				
1,1,2,2-Tetrachloroethane	ug/m3	NM	10/30/08	WSD				
Tetrachloroethylene	ug/m3	NM	10/30/08	WSD				
Toluene	ug/m3	22	10/30/08	WSD	1.9			
1,1,1-Trichloroethane	ug/m3	NM	10/30/08	WSD				
1,1,2-Trichloroethane	ug/m3	NM	10/30/08	WSD				
Trichloroethylene	ug/m3	NM	10/30/08	WSD				
Trichlorofluoromethane	ug/m3	NM	10/30/08	WSD				
1,2,4-Trimethylbenzene	ug/m3	4.8	10/30/08	WSD	2.5			
1,3,5-Trimethylbenzene	ug/m3	ND	10/30/08	WSD	2.5			
Vinyl Chloride	ug/m3	NM	10/30/08	WSD				
m/p-Xylene	ug/m3	6.8	10/30/08	WSD	4.4			
o-Xylene	ug/m3	3.1	10/30/08	WSD	2.2			

Analytical Method:
EPA TO-15
SAMPLES ARE TAKEN IN SUMMA CANISTERS AND ANALYZED BY GAS CHROMATOGRAPHY WITH MASS SPECTROMETRY DETECTION. (GC/MS)

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

CHRIS KOELLE
DIVERSIFIED TECHNOLOGY CONSULTANTS
556 WASHINGTON AVENUE
NORTH HAVEN, CT 06473

11/3/2008

Purchase Order No.:

Project Number: 03-273-35E
LIMS-BAT #: LIMT-20877
Job Number: 03-273-35E

Project Location: CONN DOT LITCHFIELD
Date Received: 10/27/2008
Field Sample # : SV-1

Sample ID : *08B43496

‡Sampled : 10/24/2008
Not Specified

Sample Matrix: AIR
Sample Medium : SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
Acetone	ug/m3	NM	10/30/08	WSD				
Acrylonitrile	ug/m3	NM	10/30/08	WSD				
Benzene	ug/m3	ND	10/30/08	WSD	1.6			
Bromodichloromethane	ug/m3	NM	10/30/08	WSD				
Bromoform	ug/m3	NM	10/30/08	WSD				
2-Butanone (MEK)	ug/m3	NM	10/30/08	WSD				
n-Butylbenzene	ug/m3	ND	10/30/08	WSD	3.2			
sec-Butylbenzene	ug/m3	7.8	10/30/08	WSD	3.2			
Carbon Tetrachloride	ug/m3	NM	10/30/08	WSD				
Chlorobenzene	ug/m3	ND	10/30/08	WSD	2.3			
Chlorodibromomethane	ug/m3	NM	10/30/08	WSD				
Chloroethane	ug/m3	NM	10/30/08	WSD				
Chloroform	ug/m3	NM	10/30/08	WSD				
Chloromethane	ug/m3	NM	10/30/08	WSD				
1,2-Dibromoethane	ug/m3	NM	10/30/08	WSD				
1,2-Dichlorobenzene	ug/m3	ND	10/30/08	WSD	3.0			
1,3-Dichlorobenzene	ug/m3	ND	10/30/08	WSD	3.0			
1,4-Dichlorobenzene	ug/m3	ND	10/30/08	WSD	3.0			
Dichlorodifluoromethane	ug/m3	NM	10/30/08	WSD				
1,1-Dichloroethane	ug/m3	NM	10/30/08	WSD				
1,2-Dichloroethane	ug/m3	NM	10/30/08	WSD				
1,1-Dichloroethylene	ug/m3	NM	10/30/08	WSD				
cis-1,2-Dichloroethylene	ug/m3	NM	10/30/08	WSD				
t-1,2-Dichloroethylene	ug/m3	NM	10/30/08	WSD				
1,2-Dichloropropane	ug/m3	NM	10/30/08	WSD				
1,3-Dichloropropane	ug/m3	NM	10/30/08	WSD				
cis-1,3-Dichloropropene	ug/m3	NM	10/30/08	WSD				
trans-1,3-Dichloropropene	ug/m3	NM	10/30/08	WSD				
Ethylbenzene	ug/m3	8.0	10/30/08	WSD	2.2			

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11/3/2008

Purchase Order No.:

Project Number: 03-273-35E
LIMS-BAT #: LIMT-20877
Job Number: 03-273-35E

Project Location: CONN DOT LITCHFIELD
Date Received: 10/27/2008
Field Sample # : SV-1

Sample ID : *08B43496

‡Sampled : 10/24/2008
Not Specified

Sample Matrix: AIR
Sample Medium : SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
Isopropylbenzene	ug/m3	4.4	10/30/08	WSD	3.2			
p-Isopropyltoluene	ug/m3	19	10/30/08	WSD	3.2			
Methyl tert-Butyl Ether (MTBE)	ug/m3	NM	10/30/08	WSD				
Methylene Chloride	ug/m3	NM	10/30/08	WSD				
4-Methyl-2-Pentanone (MIBK)	ug/m3	NM	10/30/08	WSD				
Styrene	ug/m3	ND	10/30/08	WSD	2.2			
1,1,1,2-Tetrachloroethane	ug/m3	NM	10/30/08	WSD				
1,1,2,2-Tetrachloroethane	ug/m3	NM	10/30/08	WSD				
Tetrachloroethylene	ug/m3	NM	10/30/08	WSD				
Toluene	ug/m3	56	10/30/08	WSD	1.9			
1,1,1-Trichloroethane	ug/m3	NM	10/30/08	WSD				
1,1,2-Trichloroethane	ug/m3	NM	10/30/08	WSD				
Trichloroethylene	ug/m3	NM	10/30/08	WSD				
Trichlorofluoromethane	ug/m3	NM	10/30/08	WSD				
1,2,4-Trimethylbenzene	ug/m3	99	10/30/08	WSD	2.5			
1,3,5-Trimethylbenzene	ug/m3	39	10/30/08	WSD	2.5			
Vinyl Chloride	ug/m3	NM	10/30/08	WSD				
m/p-Xylene	ug/m3	35	10/30/08	WSD	4.4			
o-Xylene	ug/m3	17	10/30/08	WSD	2.2			

Analytical Method:
EPA TO-15
SAMPLES ARE TAKEN IN SUMMA CANISTERS AND ANALYZED BY GAS CHROMATOGRAPHY WITH MASS SPECTROMETRY DETECTION. (GC/MS)

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NORTH HAVEN, CT 06473

11/3/2008

Purchase Order No.:

Project Number: 03-273-35E
LIMS-BAT #: LIMT-20877
Job Number: 03-273-35E

Project Location: CONN DOT LITCHFIELD
Date Received: 10/27/2008
Field Sample # : SV-2

Sample ID : *08B43497

‡Sampled : 10/24/2008
Not Specified

Sample Matrix: AIR
Sample Medium : SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
Acetone	ug/m3	NM	10/30/08	WSD				
Acrylonitrile	ug/m3	NM	10/30/08	WSD				
Benzene	ug/m3	ND	10/30/08	WSD	1.6			
Bromodichloromethane	ug/m3	NM	10/30/08	WSD				
Bromoform	ug/m3	NM	10/30/08	WSD				
2-Butanone (MEK)	ug/m3	NM	10/30/08	WSD				
n-Butylbenzene	ug/m3	ND	10/30/08	WSD	3.2			
sec-Butylbenzene	ug/m3	ND	10/30/08	WSD	3.2			
Carbon Tetrachloride	ug/m3	NM	10/30/08	WSD				
Chlorobenzene	ug/m3	ND	10/30/08	WSD	2.3			
Chlorodibromomethane	ug/m3	NM	10/30/08	WSD				
Chloroethane	ug/m3	NM	10/30/08	WSD				
Chloroform	ug/m3	NM	10/30/08	WSD				
Chloromethane	ug/m3	NM	10/30/08	WSD				
1,2-Dibromoethane	ug/m3	NM	10/30/08	WSD				
1,2-Dichlorobenzene	ug/m3	ND	10/30/08	WSD	3.0			
1,3-Dichlorobenzene	ug/m3	ND	10/30/08	WSD	3.0			
1,4-Dichlorobenzene	ug/m3	ND	10/30/08	WSD	3.0			
Dichlorodifluoromethane	ug/m3	NM	10/30/08	WSD				
1,1-Dichloroethane	ug/m3	NM	10/30/08	WSD				
1,2-Dichloroethane	ug/m3	NM	10/30/08	WSD				
1,1-Dichloroethylene	ug/m3	NM	10/30/08	WSD				
cis-1,2-Dichloroethylene	ug/m3	NM	10/30/08	WSD				
t-1,2-Dichloroethylene	ug/m3	NM	10/30/08	WSD				
1,2-Dichloropropane	ug/m3	NM	10/30/08	WSD				
1,3-Dichloropropane	ug/m3	NM	10/30/08	WSD				
cis-1,3-Dichloropropene	ug/m3	NM	10/30/08	WSD				
trans-1,3-Dichloropropene	ug/m3	NM	10/30/08	WSD				
Ethylbenzene	ug/m3	ND	10/30/08	WSD	2.2			

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11/3/2008

Purchase Order No.:

Project Number: 03-273-35E
LIMS-BAT #: LIMT-20877
Job Number: 03-273-35E

Project Location: CONN DOT LITCHFIELD
Date Received: 10/27/2008
Field Sample # : SV-2

Sample ID : *08B43497

‡Sampled : 10/24/2008
Not Specified

Sample Matrix: AIR
Sample Medium : SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
Isopropylbenzene	ug/m3	ND	10/30/08	WSD	3.2			
p-Isopropyltoluene	ug/m3	ND	10/30/08	WSD	3.2			
Methyl tert-Butyl Ether (MTBE)	ug/m3	NM	10/30/08	WSD				
Methylene Chloride	ug/m3	NM	10/30/08	WSD				
4-Methyl-2-Pentanone (MIBK)	ug/m3	NM	10/30/08	WSD				
Styrene	ug/m3	ND	10/30/08	WSD	2.2			
1,1,1,2-Tetrachloroethane	ug/m3	NM	10/30/08	WSD				
1,1,2,2-Tetrachloroethane	ug/m3	NM	10/30/08	WSD				
Tetrachloroethylene	ug/m3	NM	10/30/08	WSD				
Toluene	ug/m3	5.5	10/30/08	WSD	1.9			
1,1,1-Trichloroethane	ug/m3	NM	10/30/08	WSD				
1,1,2-Trichloroethane	ug/m3	NM	10/30/08	WSD				
Trichloroethylene	ug/m3	NM	10/30/08	WSD				
Trichlorofluoromethane	ug/m3	NM	10/30/08	WSD				
1,2,4-Trimethylbenzene	ug/m3	3.9	10/30/08	WSD	2.5			
1,3,5-Trimethylbenzene	ug/m3	ND	10/30/08	WSD	2.5			
Vinyl Chloride	ug/m3	NM	10/30/08	WSD				
m/p-Xylene	ug/m3	7.6	10/30/08	WSD	4.4			
o-Xylene	ug/m3	3.2	10/30/08	WSD	2.2			

Analytical Method:
EPA TO-15
SAMPLES ARE TAKEN IN SUMMA CANISTERS AND ANALYZED BY GAS CHROMATOGRAPHY WITH MASS SPECTROMETRY DETECTION. (GC/MS)

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NORTH HAVEN, CT 06473

11/3/2008

Purchase Order No.:

Project Number: 03-273-35E
LIMS-BAT #: LIMT-20877
Job Number: 03-273-35E

Project Location: CONN DOT LITCHFIELD
Date Received: 10/27/2008
Field Sample # : SV-3

Sample ID : *08B43498

‡Sampled : 10/24/2008
Not Specified

Sample Matrix: AIR
Sample Medium : SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
Acetone	ug/m3	NM	10/30/08	WSD				
Acrylonitrile	ug/m3	NM	10/30/08	WSD				
Benzene	ug/m3	ND	10/30/08	WSD	1.6			
Bromodichloromethane	ug/m3	NM	10/30/08	WSD				
Bromoform	ug/m3	NM	10/30/08	WSD				
2-Butanone (MEK)	ug/m3	NM	10/30/08	WSD				
n-Butylbenzene	ug/m3	ND	10/30/08	WSD	3.2			
sec-Butylbenzene	ug/m3	ND	10/30/08	WSD	3.2			
Carbon Tetrachloride	ug/m3	NM	10/30/08	WSD				
Chlorobenzene	ug/m3	ND	10/30/08	WSD	2.3			
Chlorodibromomethane	ug/m3	NM	10/30/08	WSD				
Chloroethane	ug/m3	NM	10/30/08	WSD				
Chloroform	ug/m3	NM	10/30/08	WSD				
Chloromethane	ug/m3	NM	10/30/08	WSD				
1,2-Dibromoethane	ug/m3	NM	10/30/08	WSD				
1,2-Dichlorobenzene	ug/m3	ND	10/30/08	WSD	3.0			
1,3-Dichlorobenzene	ug/m3	ND	10/30/08	WSD	3.0			
1,4-Dichlorobenzene	ug/m3	4.0	10/30/08	WSD	3.0			
Dichlorodifluoromethane	ug/m3	NM	10/30/08	WSD				
1,1-Dichloroethane	ug/m3	NM	10/30/08	WSD				
1,2-Dichloroethane	ug/m3	NM	10/30/08	WSD				
1,1-Dichloroethylene	ug/m3	NM	10/30/08	WSD				
cis-1,2-Dichloroethylene	ug/m3	NM	10/30/08	WSD				
t-1,2-Dichloroethylene	ug/m3	NM	10/30/08	WSD				
1,2-Dichloropropane	ug/m3	NM	10/30/08	WSD				
1,3-Dichloropropane	ug/m3	NM	10/30/08	WSD				
cis-1,3-Dichloropropene	ug/m3	NM	10/30/08	WSD				
trans-1,3-Dichloropropene	ug/m3	NM	10/30/08	WSD				
Ethylbenzene	ug/m3	ND	10/30/08	WSD	2.2			

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11/3/2008

Purchase Order No.:

Project Number: 03-273-35E
LIMS-BAT #: LIMT-20877
Job Number: 03-273-35E

Project Location: CONN DOT LITCHFIELD
Date Received: 10/27/2008
Field Sample # : SV-3

Sample ID : *08B43498 ‡Sampled : 10/24/2008
Not Specified
Sample Matrix: AIR Sample Medium : SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
Isopropylbenzene	ug/m3	ND	10/30/08	WSD	3.2			
p-Isopropyltoluene	ug/m3	ND	10/30/08	WSD	3.2			
Methyl tert-Butyl Ether (MTBE)	ug/m3	NM	10/30/08	WSD				
Methylene Chloride	ug/m3	NM	10/30/08	WSD				
4-Methyl-2-Pentanone (MIBK)	ug/m3	NM	10/30/08	WSD				
Styrene	ug/m3	3.2	10/30/08	WSD	2.2			
1,1,1,2-Tetrachloroethane	ug/m3	NM	10/30/08	WSD				
1,1,2,2-Tetrachloroethane	ug/m3	NM	10/30/08	WSD				
Tetrachloroethylene	ug/m3	NM	10/30/08	WSD				
Toluene	ug/m3	22	10/30/08	WSD	1.9			
1,1,1-Trichloroethane	ug/m3	NM	10/30/08	WSD				
1,1,2-Trichloroethane	ug/m3	NM	10/30/08	WSD				
Trichloroethylene	ug/m3	NM	10/30/08	WSD				
Trichlorofluoromethane	ug/m3	NM	10/30/08	WSD				
1,2,4-Trimethylbenzene	ug/m3	4.9	10/30/08	WSD	2.5			
1,3,5-Trimethylbenzene	ug/m3	ND	10/30/08	WSD	2.5			
Vinyl Chloride	ug/m3	NM	10/30/08	WSD				
m/p-Xylene	ug/m3	6.9	10/30/08	WSD	4.4			
o-Xylene	ug/m3	3.1	10/30/08	WSD	2.2			

Analytical Method:
EPA TO-15
SAMPLES ARE TAKEN IN SUMMA CANISTERS AND ANALYZED BY GAS CHROMATOGRAPHY WITH MASS SPECTROMETRY DETECTION. (GC/MS)

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11/3/2008

Purchase Order No.:

Project Number: 03-273-35E
LIMS-BAT #: LIMT-20877
Job Number: 03-273-35E

Project Location: CONN DOT LITCHFIELD
Date Received: 10/27/2008
The following notes were attached to the reported analysis :

Sample ID: * 08B43496
Analysis: to-15 ug/m3 rcp

Analyte	Reporting Limit PPBv	Reporting Limit ug/m3	Sample Results PPBv	Sample Results ug/m3
Isopropyl Alcohol	0.05	0.12	1.6	3.9

Blank-125854

Isopropyl Alcohol	0.02	0.05	N.D.	N.D.

LFBlank-87726	True Value PPBv	True Value ug/m3	Sample Results PPBv	Sample Results ug/m3	Recovery %
Isopropyl Alcohol	5.00	12.3	6.07	14.9	121

Sample ID: * 08B43497
Analysis: to-15 ug/m3 rcp

Analyte	Reporting Limit PPBv	Reporting Limit ug/m3	Sample Results PPBv	Sample Results ug/m3
Isopropyl Alcohol	0.05	0.12	1.5	3.6

Sample ID: * 08B43498
Analysis: to-15 ug/m3 rcp

Analyte	Reporting Limit PPBv	Reporting Limit ug/m3	Sample Results PPBv	Sample Results ug/m3
Isopropyl Alcohol	0.05	0.12	9.0	22

Sample ID: * 08B43499
Analysis: to-15 ug/m3 rcp

Analyte	Reporting Limit PPBv	Reporting Limit ug/m3	Sample Results PPBv	Sample Results ug/m3
Isopropyl Alcohol	0.05	0.12	9.3	23

** END OF REPORT **

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ANALYTICAL LABORATORY

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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates
Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

Report Date: 11/3/2008 Lims Bat # : LIMT-20877

QC Batch Number: BATCH-15430

Sample Id	Analysis	QC Analysis	Values	Units	Limits
08B43496					
	4-Bromofluorobenzene	Surrogate Recovery	91.25	%	70-130
08B43497					
	4-Bromofluorobenzene	Surrogate Recovery	87.12	%	70-130
08B43498					
	4-Bromofluorobenzene	Surrogate Recovery	86.00	%	70-130
08B43499					
	4-Bromofluorobenzene	Surrogate Recovery	85.37	%	70-130
BLANK-125854					
	Acetone	Blank	N.M.	ug/m3	
	Benzene	Blank	<0.64	ug/m3	
	Carbon Tetrachloride	Blank	N.M.	ug/m3	
	Chloroform	Blank	N.M.	ug/m3	
	1,2-Dichloroethane	Blank	N.M.	ug/m3	
	1,4-Dichlorobenzene	Blank	<1.2	ug/m3	
	Ethylbenzene	Blank	<0.87	ug/m3	
	2-Butanone (MEK)	Blank	N.M.	ug/m3	
	4-Methyl-2-Pentanone (MIBK)	Blank	N.M.	ug/m3	
	Styrene	Blank	<0.86	ug/m3	
	Tetrachloroethylene	Blank	N.M.	ug/m3	
	Toluene	Blank	<0.76	ug/m3	
	1,1,1-Trichloroethane	Blank	N.M.	ug/m3	
	Trichloroethylene	Blank	N.M.	ug/m3	
	Trichlorofluoromethane	Blank	N.M.	ug/m3	
	o-Xylene	Blank	<0.87	ug/m3	
	m/p-Xylene	Blank	<1.8	ug/m3	
	1,2-Dichlorobenzene	Blank	<1.2	ug/m3	
	1,3-Dichlorobenzene	Blank	<1.2	ug/m3	
	1,1-Dichloroethane	Blank	N.M.	ug/m3	
	1,1-Dichloroethylene	Blank	N.M.	ug/m3	
	Methyl tert-Butyl Ether (MTBE)	Blank	N.M.	ug/m3	
	t-1,2-Dichloroethylene	Blank	N.M.	ug/m3	
	Vinyl Chloride	Blank	N.M.	ug/m3	
	Methylene Chloride	Blank	N.M.	ug/m3	
	Chlorobenzene	Blank	<0.92	ug/m3	
	Chloromethane	Blank	N.M.	ug/m3	
	Chloroethane	Blank	N.M.	ug/m3	
	cis-1,3-Dichloropropene	Blank	N.M.	ug/m3	
	trans-1,3-Dichloropropene	Blank	N.M.	ug/m3	
	Chlorodibromomethane	Blank	N.M.	ug/m3	
	1,1,2-Trichloroethane	Blank	N.M.	ug/m3	
	Bromoform	Blank	N.M.	ug/m3	
	1,1,2,2-Tetrachloroethane	Blank	N.M.	ug/m3	
	Isopropylbenzene	Blank	<1.3	ug/m3	

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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates
Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

Report Date: 11/3/2008 Lims Bat # : LIMT-20877

QC Batch Number: BATCH-15430

Sample Id	Analysis	QC Analysis	Values	Units	Limits
BLANK-125854					
	p-Isopropyltoluene	Blank	<1.3	ug/m3	
	sec-Butylbenzene	Blank	<1.3	ug/m3	
	1,2,4-Trimethylbenzene	Blank	<0.99	ug/m3	
	1,3,5-Trimethylbenzene	Blank	<0.99	ug/m3	
	cis-1,2-Dichloroethylene	Blank	N.M.	ug/m3	
	1,2-Dichloropropane	Blank	N.M.	ug/m3	
	1,3-Dichloropropane	Blank	N.M.	ug/m3	
	1,1,1,2-Tetrachloroethane	Blank	N.M.	ug/m3	
	n-Butylbenzene	Blank	<1.3	ug/m3	
	Dichlorodifluoromethane	Blank	<0.98	ug/m3	
	Acrylonitrile	Blank	N.M.	ug/m3	
	Bromodichloromethane	Blank	N.M.	ug/m3	
	1,2-Dibromoethane	Blank	N.M.	ug/m3	
LFBLANK-87726					
	Acetone	Lab Fort Blank Amt.	N.M.	ug/m3	
		Lab Fort Blk. Found	N.M.	ug/m3	
		Lab Fort Blk. % Rec.	N.M.	%	50-150
	Benzene	Lab Fort Blank Amt.	15.95	ug/m3	
		Lab Fort Blk. Found	11.83	ug/m3	
		Lab Fort Blk. % Rec.	74.17	%	70-130
	Carbon Tetrachloride	Lab Fort Blank Amt.	N.M.	ug/m3	
		Lab Fort Blk. Found	N.M.	ug/m3	
		Lab Fort Blk. % Rec.	N.M.	%	70-130
	Chloroform	Lab Fort Blank Amt.	N.M.	ug/m3	
		Lab Fort Blk. Found	N.M.	ug/m3	
		Lab Fort Blk. % Rec.	N.M.	%	70-130
	1,2-Dichloroethane	Lab Fort Blank Amt.	N.M.	ug/m3	
		Lab Fort Blk. Found	N.M.	ug/m3	
		Lab Fort Blk. % Rec.	N.M.	%	70-130
	1,4-Dichlorobenzene	Lab Fort Blank Amt.	30.06	ug/m3	
		Lab Fort Blk. Found	33.43	ug/m3	
		Lab Fort Blk. % Rec.	111.22	%	70-130
	Ethylbenzene	Lab Fort Blank Amt.	21.67	ug/m3	
		Lab Fort Blk. Found	18.95	ug/m3	
		Lab Fort Blk. % Rec.	87.44	%	70-130
	2-Butanone (MEK)	Lab Fort Blank Amt.	N.M.	ug/m3	
		Lab Fort Blk. Found	N.M.	ug/m3	
		Lab Fort Blk. % Rec.	N.M.	%	70-130
	4-Methyl-2-Pentanone (MIBK)	Lab Fort Blank Amt.	N.M.	ug/m3	
		Lab Fort Blk. Found	N.M.	ug/m3	
		Lab Fort Blk. % Rec.	N.M.	%	70-130
	Styrene	Lab Fort Blank Amt.	21.26	ug/m3	
		Lab Fort Blk. Found	15.47	ug/m3	

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ANALYTICAL LABORATORY
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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates
Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

Report Date: 11/3/2008 Lims Bat # : LIMT-20877

QC Batch Number: BATCH-15430

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-87726					
	Styrene	Lab Fort Blk. % Rec.	72.78	%	70-130
	Tetrachloroethylene	Lab Fort Blank Amt.	N.M.	ug/m3	
		Lab Fort Blk. Found	N.M.	ug/m3	
		Lab Fort Blk. % Rec.	N.M.	%	70-130
	Toluene	Lab Fort Blank Amt.	18.81	ug/m3	
		Lab Fort Blk. Found	15.69	ug/m3	
		Lab Fort Blk. % Rec.	83.42	%	70-130
	1,1,1-Trichloroethane	Lab Fort Blank Amt.	N.M.	ug/m3	
		Lab Fort Blk. Found	N.M.	ug/m3	
		Lab Fort Blk. % Rec.	N.M.	%	70-130
	Trichloroethylene	Lab Fort Blank Amt.	N.M.	ug/m3	
		Lab Fort Blk. Found	N.M.	ug/m3	
		Lab Fort Blk. % Rec.	N.M.	%	70-130
	Trichlorofluoromethane	Lab Fort Blank Amt.	N.M.	ug/m3	
		Lab Fort Blk. Found	N.M.	ug/m3	
		Lab Fort Blk. % Rec.	N.M.	%	70-130
	o-Xylene	Lab Fort Blank Amt.	21.71	ug/m3	
		Lab Fort Blk. Found	19.33	ug/m3	
		Lab Fort Blk. % Rec.	89.02	%	70-130
	m/p-Xylene	Lab Fort Blank Amt.	43.43	ug/m3	
		Lab Fort Blk. Found	39.49	ug/m3	
		Lab Fort Blk. % Rec.	90.92	%	70-130
	1,2-Dichlorobenzene	Lab Fort Blank Amt.	30.06	ug/m3	
		Lab Fort Blk. Found	34.05	ug/m3	
		Lab Fort Blk. % Rec.	113.30	%	70-130
	1,3-Dichlorobenzene	Lab Fort Blank Amt.	30.06	ug/m3	
		Lab Fort Blk. Found	34.03	ug/m3	
		Lab Fort Blk. % Rec.	113.22	%	70-130
	1,1-Dichloroethane	Lab Fort Blank Amt.	N.M.	ug/m3	
		Lab Fort Blk. Found	N.M.	ug/m3	
		Lab Fort Blk. % Rec.	N.M.	%	70-130
	1,1-Dichloroethylene	Lab Fort Blank Amt.	N.M.	ug/m3	
		Lab Fort Blk. Found	N.M.	ug/m3	
		Lab Fort Blk. % Rec.	N.M.	%	70-130
	Methyl tert-Butyl Ether (MTBE)	Lab Fort Blank Amt.	N.M.	ug/m3	
		Lab Fort Blk. Found	N.M.	ug/m3	
		Lab Fort Blk. % Rec.	N.M.	%	70-130
	t-1,2-Dichloroethylene	Lab Fort Blank Amt.	N.M.	ug/m3	
		Lab Fort Blk. Found	N.M.	ug/m3	
		Lab Fort Blk. % Rec.	N.M.	%	70-130
	Vinyl Chloride	Lab Fort Blank Amt.	N.M.	ug/m3	
		Lab Fort Blk. Found	N.M.	ug/m3	
		Lab Fort Blk. % Rec.	N.M.	%	70-130

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QC Batch Number: BATCH-15430

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-87726					
	Methylene Chloride	Lab Fort Blank Amt.	N.M.	ug/m3	
		Lab Fort Blk. Found	N.M.	ug/m3	
		Lab Fort Blk. % Rec.	N.M.	%	70-130
	Chlorobenzene	Lab Fort Blank Amt.	23.02	ug/m3	
		Lab Fort Blk. Found	21.56	ug/m3	
		Lab Fort Blk. % Rec.	93.64	%	70-130
	Chloromethane	Lab Fort Blank Amt.	N.M.	ug/m3	
		Lab Fort Blk. Found	N.M.	ug/m3	
		Lab Fort Blk. % Rec.	N.M.	%	70-130
	Chloroethane	Lab Fort Blank Amt.	N.M.	ug/m3	
		Lab Fort Blk. Found	N.M.	ug/m3	
		Lab Fort Blk. % Rec.	N.M.	%	70-130
	cis-1,3-Dichloropropene	Lab Fort Blank Amt.	N.M.	ug/m3	
		Lab Fort Blk. Found	N.M.	ug/m3	
		Lab Fort Blk. % Rec.	N.M.	%	70-130
	trans-1,3-Dichloropropene	Lab Fort Blank Amt.	N.M.	ug/m3	
		Lab Fort Blk. Found	N.M.	ug/m3	
		Lab Fort Blk. % Rec.	N.M.	%	70-130
	Chlorodibromomethane	Lab Fort Blank Amt.	N.M.	ug/m3	
		Lab Fort Blk. Found	N.M.	ug/m3	
		Lab Fort Blk. % Rec.	N.M.	%	70-130
	1,1,2-Trichloroethane	Lab Fort Blank Amt.	N.M.	ug/m3	
		Lab Fort Blk. Found	N.M.	ug/m3	
		Lab Fort Blk. % Rec.	N.M.	%	70-130
	Bromoform	Lab Fort Blank Amt.	N.M.	ug/m3	
		Lab Fort Blk. Found	N.M.	ug/m3	
		Lab Fort Blk. % Rec.	N.M.	%	70-130
	1,1,2,2-Tetrachloroethane	Lab Fort Blank Amt.	N.M.	ug/m3	
		Lab Fort Blk. Found	N.M.	ug/m3	
		Lab Fort Blk. % Rec.	N.M.	%	70-130
	Isopropylbenzene	Lab Fort Blank Amt.	12.50	ug/m3	
		Lab Fort Blk. Found	17.66	ug/m3	
		Lab Fort Blk. % Rec.	141.32	%	70-130
	p-Isopropyltoluene	Lab Fort Blank Amt.	12.49	ug/m3	
		Lab Fort Blk. Found	19.73	ug/m3	
		Lab Fort Blk. % Rec.	157.88	%	50-150
	sec-Butylbenzene	Lab Fort Blank Amt.	12.49	ug/m3	
		Lab Fort Blk. Found	17.71	ug/m3	
		Lab Fort Blk. % Rec.	141.76	%	50-150
	1,2,4-Trimethylbenzene	Lab Fort Blank Amt.	24.58	ug/m3	
		Lab Fort Blk. Found	23.41	ug/m3	
		Lab Fort Blk. % Rec.	95.24	%	70-130
	1,3,5-Trimethylbenzene	Lab Fort Blank Amt.	24.58	ug/m3	

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Report Date: 11/3/2008 Lims Bat # : LIMT-20877

QC Batch Number: BATCH-15430

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-87726					
	1,3,5-Trimethylbenzene	Lab Fort Blk. Found	22.95	ug/m3	
		Lab Fort Blk. % Rec.	93.37	%	70-130
	cis-1,2-Dichloroethylene	Lab Fort Blank Amt.	N.M.	ug/m3	
		Lab Fort Blk. Found	N.M.	ug/m3	
		Lab Fort Blk. % Rec.	N.M.	%	70-130
	1,2-Dichloropropane	Lab Fort Blank Amt.	N.M.	ug/m3	
		Lab Fort Blk. Found	N.M.	ug/m3	
		Lab Fort Blk. % Rec.	N.M.	%	70-130
	1,3-Dichloropropane	Lab Fort Blank Amt.	N.M.	ug/m3	
		Lab Fort Blk. Found	N.M.	ug/m3	
		Lab Fort Blk. % Rec.	N.M.	%	70-130
	1,1,1,2-Tetrachloroethane	Lab Fort Blank Amt.	N.M.	ug/m3	
		Lab Fort Blk. Found	N.M.	ug/m3	
		Lab Fort Blk. % Rec.	N.M.	%	50-150
	n-Butylbenzene	Lab Fort Blank Amt.	12.49	ug/m3	
		Lab Fort Blk. Found	17.83	ug/m3	
		Lab Fort Blk. % Rec.	142.73	%	50-150
	Dichlorodifluoromethane	Lab Fort Blank Amt.	24.72	ug/m3	
		Lab Fort Blk. Found	24.45	ug/m3	
		Lab Fort Blk. % Rec.	98.91	%	70-130
	Acrylonitrile	Lab Fort Blank Amt.	N.M.	ug/m3	
		Lab Fort Blk. Found	N.M.	ug/m3	
		Lab Fort Blk. % Rec.	N.M.	%	70-130
	Bromodichloromethane	Lab Fort Blank Amt.	N.M.	ug/m3	
		Lab Fort Blk. Found	N.M.	ug/m3	
		Lab Fort Blk. % Rec.	N.M.	%	70-130
	1,2-Dibromoethane	Lab Fort Blank Amt.	N.M.	ug/m3	
		Lab Fort Blk. Found	N.M.	ug/m3	
		Lab Fort Blk. % Rec.	N.M.	%	70-130

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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates
Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

NOTES:

QC Batch No. : BATCH-15430
Sample ID : LFBLANK-87726
Analysis : Isopropylbenzene

LABORATORY FORTIFIED BLANK RECOVERY IS OUTSIDE OF CONTROL LIMITS. ANY REPORTED VALUE FOR THIS COMPOUND IS LIKELY TO BE BIASED ON THE HIGH SIDE.

QC Batch No. : BATCH-15430
Sample ID : LFBLANK-87726
Analysis : p-Isopropyltoluene

LABORATORY FORTIFIED BLANK RECOVERY IS OUTSIDE OF CONTROL LIMITS. ANY REPORTED VALUE FOR THIS COMPOUND IS LIKELY TO BE BIASED ON THE HIGH SIDE.

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Method Blanks

QUALITY CONTROL DEFINITIONS AND ABBREVIATIONS

QC BATCH NUMBER	This is the number assigned to all samples analyzed together that would be subject to comparison with a particular set of Quality Control Data.
LIMITS	Upper and Lower Control Limits for the QC ANALYSIS Reported. All values normally would fall within these statistically determined limits, unless there is an unusual circumstance that would be documented in a NOTE appearing on the last page of the QC SUMMARY REPORT. Not all QC results will have Limits defined.
Sample Amount	Amount of analyte found in a sample.
Blank	Method Blank that has been taken though all the steps of the analysis.
LFBLANK	Laboratory Fortified Blank (a control sample)
STDADD	Standard Added (a laboratory control sample)
Matrix Spk Amt Added	Amount of analyte spiked into a sample
MS Amt Measured	Amount of analyte found including amount that was spiked
Matrix Spike % Rec.	% Recovery of spiked amount in sample.
Duplicate Value	The result from the Duplicate analysis of the sample.
Duplicate RPD	The Relative Percent Difference between two Duplicate Analyses.
Surrogate Recovery	The % Recovery for non-environmental compounds (surrogates) spiked into samples to determine the performance of the analytical methods.
Sur. Recovery (ELCD)	Surrogate Recovery on the Electrolytic Conductivity Detector.
Sur. Recovery (PID)	Surrogate Recovery on the Photoionization Detector.
Standard Measured	Amount measured for a laboratory control sample
Standard Amt Added	Known value for a laboratory control sample
Standard % Recovery	% recovered for a laboratory control sample with a known value.
Lab Fort Blank Amt	Laboratory Fortified Blank Amount Added
Lab Fort Blk. Found	Laboratory Fortified Blank Amount Found
Lab Fort Blk % Rec	Laboratory Fortified Blank % Recovered
Dup Lab Fort Bl Amt	Duplicate Laboratory Fortified Blank Amount Added
Dup Lab Fort Bl Fnd	Duplicate Laboratory Fortified Blank Amount Found
Dup Lab Fort Bl % Rec	Duplicate Laboratory Fortified Blank % Recovery
Lab Fort Blank Range	Laboratory Fortified Blank Range (Absolute value of difference between recoveries for Lab Fortified Blank and Lab Fortified Blank Duplicate).
Lab Fort Bl. Av. Rec.	Laboratory Fortified Blank Average Recovery
Duplicate Sample Amt	Sample Value for Duplicate used with Matrix Spike Duplicate
MSD Amount Added	Matrix Spike Duplicate Amount Added (Spiked)
MSD Amt Measured	Matrix Spike Duplicate Amount Measured
MSD % Recovery	Matrix Spike Duplicate % Recovery
MSD Range	Absolute difference between Matrix Spike and Matrix Spike Duplicate Recoveries

REASONABLE CONFIDENCE PROTOCOL

LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Con-Test Analytical Laboratory *Client:* Diversified Technologies

Project Location: CONN DOT LITCHFIELD *Project Number:* LIMT-20877

Laboratory Sample ID(s): 0843496 - 0843499 *Sampling Date(s):* 10/24/08

List RCP Methods Used (e.g., 8260, 8270, et cetera) TO-15

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?	☒Yes ☐No
1A	Were the method specified preservation and holding time requirements met?	☒Yes ☐No
1B	*VPH and EPH Methods only*: Was the VPH or EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)	☐Yes ☐No ☒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)?	☒Yes ☐No
3	Were samples received at an appropriate temperature (<6° C°)?	☐Yes ☐No ☒N/A
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	☐Yes ☒No
5	a) Were reporting limits specified or referenced on the chain-of-custody? b) Were these reporting limits met?	☒Yes ☐No ☒Yes ☐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?	☐Yes ☒No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set? AIR	☐Yes ☐No N/A

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: Edward Denson **Position:** Technical Director

Printed Name: Edward Denson **Date:** 11/3/08.

Name of Laboratory: CON-TEST ANALYTICAL LABORATORY

This certification form is to be used for RCP methods only.

www.contestlabs.com

con-test ANALYTICAL LABORATORY

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

Sample Receipt Checklist

LIENT NAME: Diversified RECEIVED BY: Km DATE: 10/27/08

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

) Does the chain agree with the samples? Yes No

If not, explain:

) Are all the samples in good condition? Yes No

If not, explain:

) How were the samples received:

n Ice ☐ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☐

'ere the samples received in Temperature Compliance of (2-6°C)? Yes No

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

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

Who was notified _____ Date _____ Time _____

Are there any samples "On Hold"? Yes No Stored where: _____

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

Who was notified _____ Date _____ Time _____

Location where samples are stored: AIR

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

Client Signature: _____

Containers sent in to Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz clear jar	
500 mL Amber		4 oz clear jar	
250 mL Amber (8oz amber)		2 oz clear jar	
1 Liter Plastic		Other glass jar	
500 mL Plastic		Plastic Bag / Ziploc	
250 mL plastic		Air Cassette	
40 mL Vial - type listed below		Brass Sleeves	
Colisure / bacteria bottle		Tubes	
Dissolved Oxygen bottle		Summa Cans	3
Flashpoint bottle		Regulators	3
Encore		Other	

oratory Comments:

nL vials: # HCl _____ # Methanol _____

Bisulfate _____ # DI Water _____ Time and Date Frozen: _____

Thiosulfate _____ Unpreserved _____

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

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

AIR SAMPLE CHAIN OF CUSTODY RECORD

LIMT-20877

39 SPRUCE ST
EAST LONGMEADOW, MA 01028

Company Name: Diversified Technology Consultants
Address: 556 Washington Ave
North Haven, CT 06473
Telephone: (203) 239-4200
Project # 03-273-35 E
Client PO #

Attention: Chris Koelle

Project Location: Conn DOT Litchfield
Sampled By: J. Klappholz + E. Stewart

Proposal Provided? (For Billing purposes)
☑ yes _____ proposal date

DATA DELIVERY (check one):
☐ FAX ☐ EMAIL ☑ WEBSITE CLIENT
Fax # :
Email:
Format: ☐ EXCEL ☑ PDF ☐ GIS KEY ☐ OTHER

ANALYSIS REQUESTED: AVOCs (TO-15) w/ isopropyl alcohol

Please fill out completely, sign, date and retain the yellow copy for your record.

Summa canisters and flow controllers must be returned within 14 days of receipt or rental fees will apply.

Summa canisters will be retained for a mini. of 14 days after sampling date prior to cleaning.

Field ID	Sample Description	Media	Lab #	Date Sampled Start Date Time	Date Sampled Stop Date Time	Total Minutes Sampled	Flow Rate M³/Min. or L/Min.	Volume Liters or M³	Matrix Code*	AVOCs (TO-15) w/ isopropyl alcohol				" Hg Initial pressure	" Hg Final pressure	" Hg Lab Receipt pressure	Summa Canister ID	Flow Controller ID
	SV-1	S	08B43496	10/24/08 1112	10/24/08 1214				SS	X				28.5	4		BC1875	319B
	SV-2	S	97	10/24/08 1126	10/24/08 1233				SS	X				35*	4		BC105B	301B
	SV-3	S	98	10/24/08 1142	10/24/08 1242				SS	X				29	6		BC1162	3206
	Duplicate	S	99	10/24/08 1142	10/24/08 1242													

Laboratory Comments:
CH

* 5-DAY! *

CLIENT COMMENTS:
* approx 35, > 30 shown on gauge
Please use SV-3 for duplicate and report duplicate as sample

Relinquished by: (signature)	Date/Time: 10/27/08 1200
Received by: (signature)	Date/Time: 10-27-8 1200
Relinquished by: (signature)	Date/Time: 10-27-8 1744
Received by: (signature)	Date/Time: 10/27/08 1744

Turnaround**
☐ 7-Day
☐ 10-Day
☐ Other ___
RUSH *
☐ *24-Hr ☐ *48-Hr
☐ *72-Hr ☐ *4-Day
*Approval Required

Special Requirements
Regulations: CT RES + I/C VC
Data Enhancement/RCP? ☑ Y ☐ N
Enhanced Data Package ☐ Y ☐ N
(Surchage Applies)
Required Detection Limits:
Other:

***Matrix Code:**
SG= SOIL GAS
IA= INDOOR AIR
AMB=AMBIENT
SS = SUB SLAB
D = DUP
BL = BLANK
O = other

****Media Codes:**
S=summa can
TB=tedlar bag
P=PUF
T=tube
F= filter
C=cassette
O = Other

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

AIHA, NELAC & WBE/DBE Certified

APPENDIX F

Geophysical Survey Report

GROUND PENETRATING RADAR SURVEY RESULTS

FOR THE LOCATION AND INVESTIGATION OF:

Underground Storage Tanks
Underground Utilities

AT THE FOLLOWING LOCATION:

438 Bantam Road
Litchfield, CT

Quotation #1.3561.08

PREPARED FOR

Diversified Technologies Consultants Incorporated (DTC)
556 Washington Avenue
North Haven, CT 06473

PREPARED BY:

Sub-Surface Informational Surveys Incorporated
143C Shaker Road, Suite 206
East Longmeadow, MA 01028-0452

"Let us Seek and Find"

June 11, 2008

SUB-SURFACE INFORMATIONAL SURVEYS, INC
SUB-SURFACE INFORMATIONAL SURVEYS, INC. EM DIVISION

143C Shaker Road
Suite 206
Post Office Box 452
E. Longmeadow, MA 01028-0452

Phone - 413-525-4666
Fax - 413-525-2887
Web – www.subsurfaceinc.com
Email – pbaccn@subsurfaceinc.com

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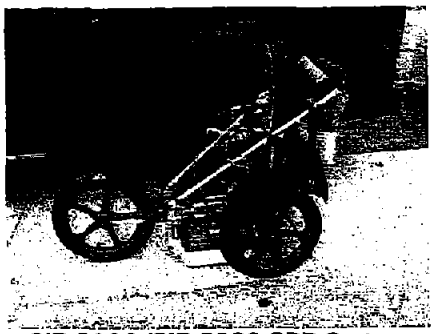


SIR-3000/SIR-2000 GPR System
W/ 400 MHz antenna

SUB-SURFACE INFORMATIONAL SURVEYS, INC.
SUB-SURFACE INFORMATIONAL SURVEYS, INC./EM DIVISION

143C Shaker Road –
Suite #206
Post Office Box 452
E. Longmeadow, MA 01028-0452

Phone - 413-525-4666
Fax - 413-525-2887
Web – www.subsurfaceinc.com
Email – pbacon@subsurfaceinc.com

1.0 Introduction

In accordance with your authorization, Sub-Surface Informational Surveys, Inc. (SIS) reports to you the results of a ground penetrating radar survey performed on June 11, 2008 at a DOT facility, 438 Bantam Road in the City of Litchfield, CT. This survey was directed by your approval of SIS quotation #13561.08 dated May 30, 2008.

1.1 Purpose and Scope

The purpose of the survey was to investigate for the presence of suspected underground storage tanks and utilities.

2.0 Geophysical Survey

Sub-Surface Informational Surveys Incorporated performed a geophysical survey. A transducer operator/supervising GPR technician performed the survey.

2.1 Geophysical Survey Procedures

The depth setting of the GPR survey was approximately 10.0' to locate any existing underground storage tanks (UST's) and/or utilities and unknown anomalies. A traverse grid with a 4.0' minimum spacing was used to conduct the GPR survey. Typically a 5.0' – 10.0' spacing is sufficient to detect all large capacity UST's (500-gallon or greater), septic systems and underground utilities with a high degree of certainty. The spacing of 4.0' was used to better define any existing suspected anomalies.

The following is an explanation of the equipment used during our survey:

1. The equipment used to conduct the geophysical survey included GPR equipment which consists of **subsurface interface radar** (SIR-3000) computer manufactured by Geophysical Survey Systems, Inc., power supply, graphic recorder, video display unit and transmitting/receiving antenna. The equipment is known collectively as a **GPR** system. The transmitting/receiving antenna transmits electromagnetic signals into the subsurface and then detects, amplifies and displays reflections of the signal on a graphic recorder and a video display unit. As the antenna is moved slowly across the ground surface or surface of contact, a radar image of the subsurface is produced. The maximum depth of penetration of the GPR signal and the resolution of the reflections are a function of the antenna frequency and the electrical properties of the subsurface. As electrical conductivity of the subsurface increases, GPR signal penetration decreases. GPR reflections are produced by spatial changes in the physical properties of the subsurface (I.e., type of material, presence of any subsurface fluid and porosity) and related changes in the electrical properties of the subsurface material in the path of the signals. The greater the difference in the subsurface structures the stronger the GPR reflection seen in the data.

Characteristics that are considered in the interpretation of the GPR data from a given site include the size, shape and amplitude of the reflections. Metallic underground storage tanks (UST's), utilities and conduits have electrical properties uniquely different from those of the soils in which they are buried. As a result, the GPR reflections are usually of high amplitude and have distinctive shapes. For GPR profiles oriented perpendicular to the long axis of the tanks, the signature is similar to a hyperbola. The signature is also a function of the tank diameter.

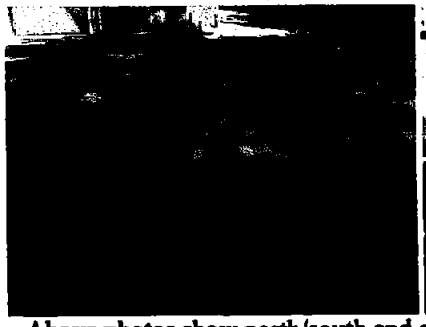
Above represents a sample of data collected by Sub-Surface Informational Surveys, Inc. on October 17, 1999 at a site in the State of CT. It shows three (3) UST's with the centerline at the top of the parabolas. The top of the tanks is approximately 36" below the surface covered by fill. NOTE: The above <u>is not</u> part of the data collected for this survey.

2. **Pipehorn 500 Dual-Transmitter, Dual-Frequency Locator:** This unit has two separate transmitters. One operates at the highest frequency available in sweeping an area of tracing poor conductors such as iron pipes, fiber optic cable w/tracer tape. A second, low frequency transmitter enables us to quickly isolate a single conductor in congested areas, or to trace for a long distance. **NOT IMPLEMENTED**

3. **The Subsite 75R/75T:** This unit provides digital signal processing for a variety of applications. The unit offers Active, Passive and Beacon locating modes. The unit transmits via direct line connections, induction clamp or induces broadcast signals. An 80 kHz frequency facilitates locating metallic lines with insulators that weaken or block low frequencies. In passive mode, detects signals generated by 50/60 HZ power as well as radiated radio frequencies. **NOT IMPLEMENTED**

Geophysical Survey Results

A Ground Penetrating Radar (GPR) survey was conducted at an active DOT facility in Litchfield, CT. The asphalt-paved area east of the building was surveyed showing no additional underground storage tanks associated with the area designated as FORMER TANK FARM. Traverses were conducted in both north/south and east/west directions showing several small parabolic features common to underground utilities. These were painted on site on the day of the survey. In addition, multiple proposed boring locations were scanned showing no anomalies associated with the locations. REFER TO ATTACHED DZT GPR DATA FILES.



Above photos show north/south and east/west directions of the GPR unit

The attached analytical result are copies of GPR Data Files collected in the field and reproduced at our corporate office. After reviewing the data, selected samples are taken and duplicated for this report.

Copies are made under the following guidelines:

A. When there are distinctive differences in the collected data. NOTE: When one traverse is almost identical in characterization to another, only one copy would be reproduced.

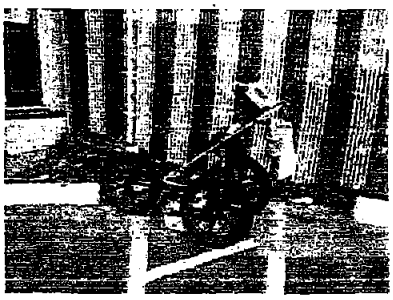
B. If there is a significant difference with suspected anomaly found within the data.

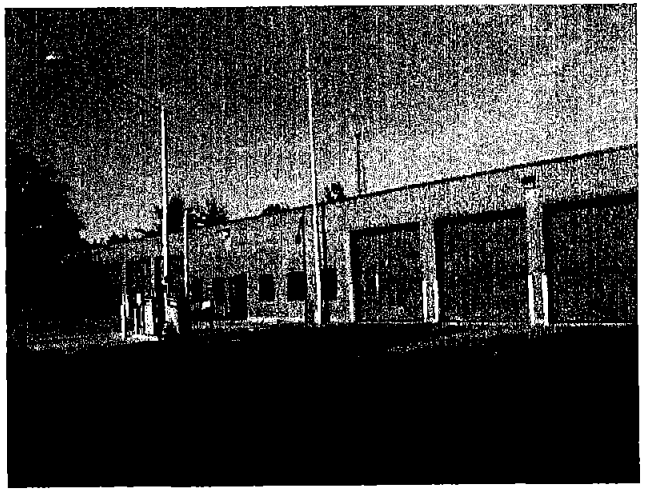
C. In the location of anomalies, such as pipes, and/or conduits, underground storage tanks or other specific characteristics important to the investigation, such data is copied and annotated.

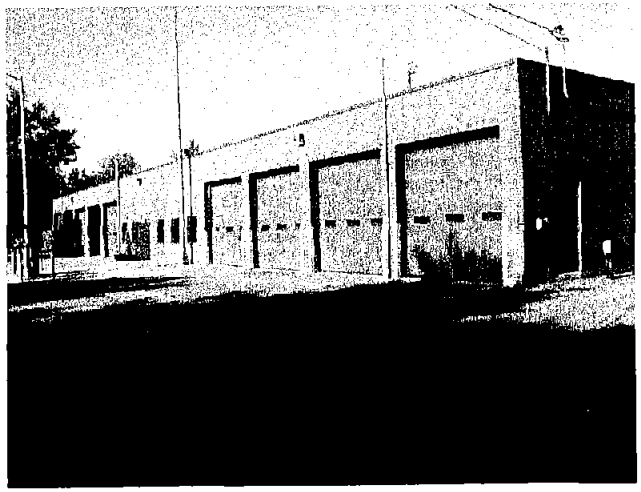
D. Samples of *signal refusal*, (water, clay, or some other highly conductive sub-surface interface).

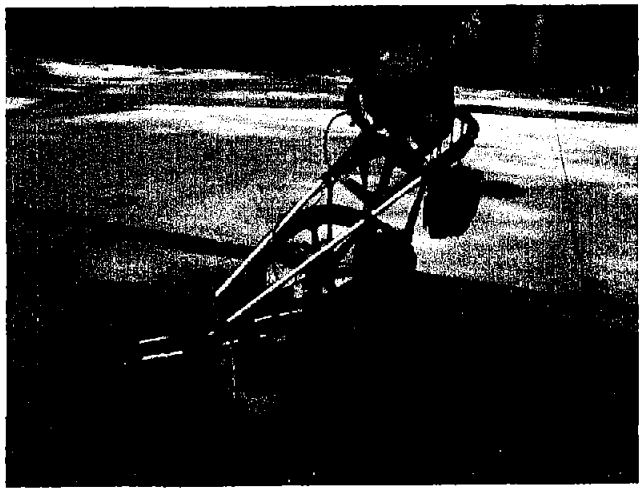
E. Requested data.

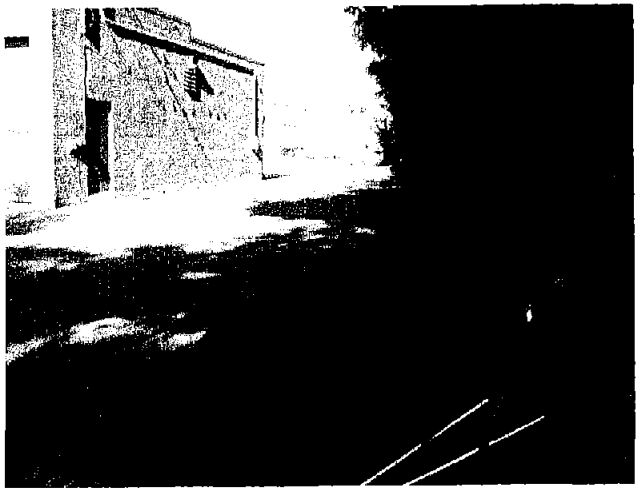
F. Specific locations of rebar and conduits using encoder wheel with measured bench marks.





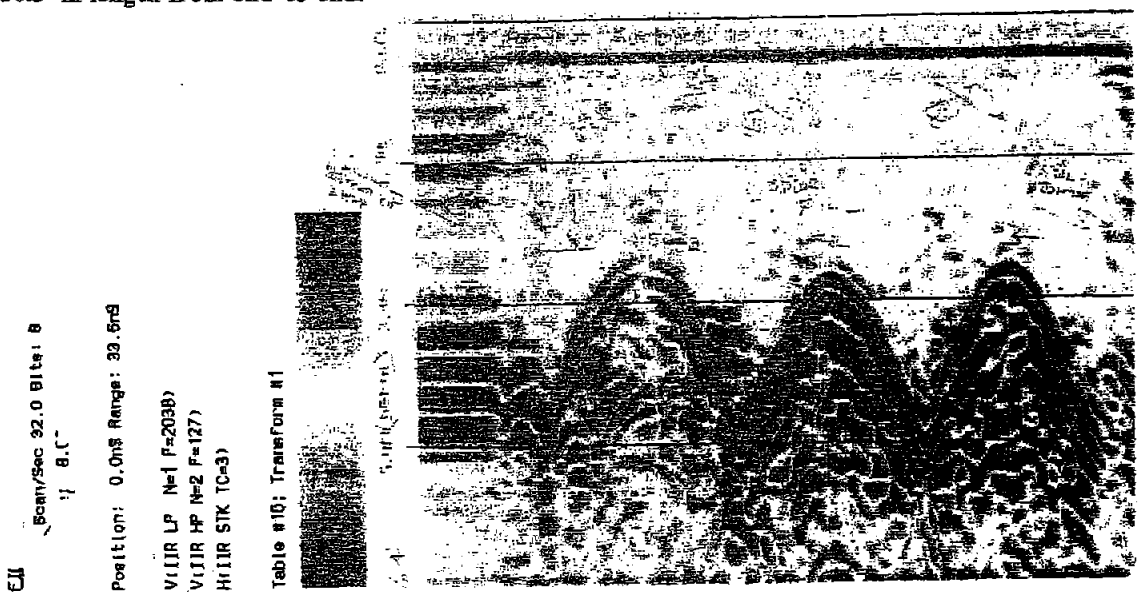


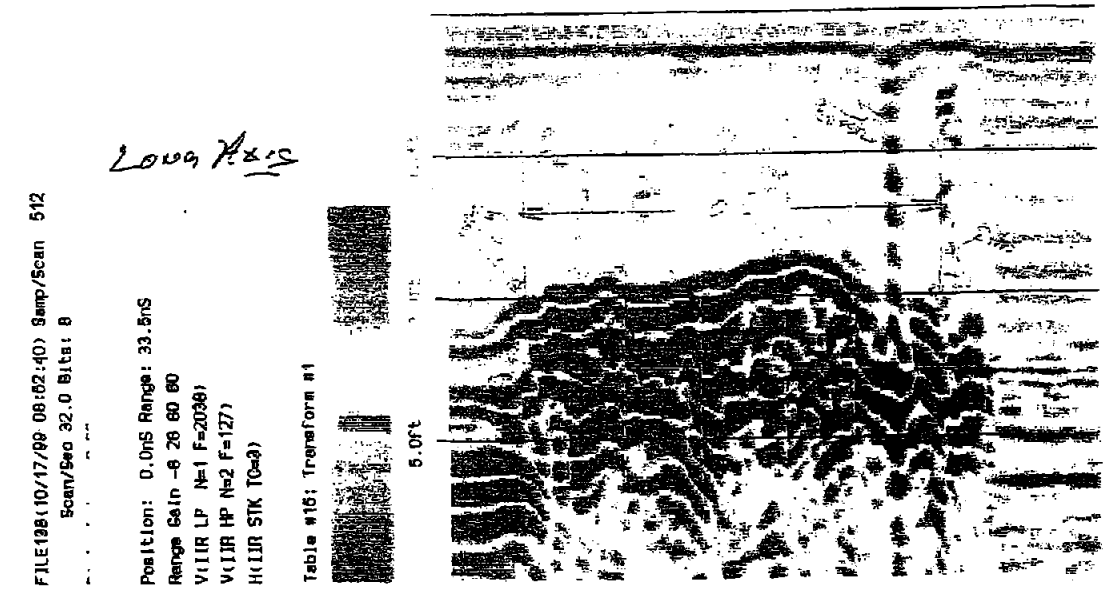




SUB-SURFACE INFORMATIONAL SURVEY'S, INC.
Sub-Surface Radar
413-525-4666
860-749-843

The profiles shown below represent copies of real data collected in the field. Each collected piece of ~~data is issued a FILE# on the information tab to the left of the data. This FILE# is referenced within~~ the report. Each piece of data is annotated from the information collected in the field such as estimated depth, length, direction or any other information that may be helpful to the subsurface investigation. The computer settings such as dielectric values, range in nanoseconds etc., is part of the information tab. The vertical benchmarks indicate points designated on the surface for the purpose of pinpointing a particular anomaly. This is used to estimate sometimes width or length or even distance between surface points such as fence posts, white lines in parking lots, centerlines of vehicles etc. The sign indicates 180 degree change in direction such as from a northerly traverse to a southerly traverse within the same piece of data. The profile below (FILE134) represents a perpendicular traverse over three 1,000g underground storage tanks at approximately 30" below the asphalt surface. The vertical benchmarks represent the centerline of each tank which was marked with marking paint on the surface per customer request. FILE138 is traversing over the long axis of one of the tanks with the vertical benchmarks at 2' intervals. The tank shows a profile of 10.5' in length from end-to-end.

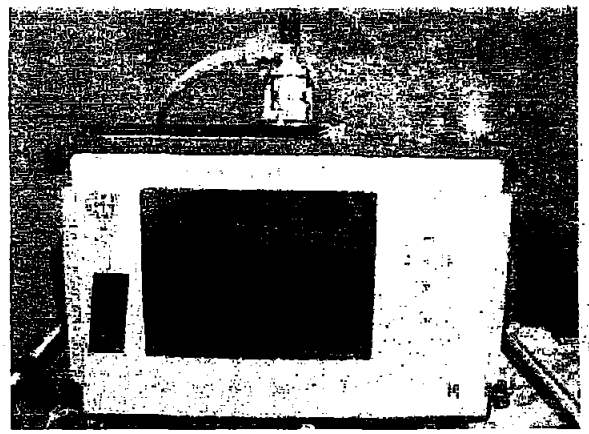




GPR PROFILES OBTAINED IN THE FIELD

The attached copies are reproductions from data acquired in the field from the GSSI, SIR 3000 Geophysical computer. The original copies are downloaded on a T-104 thermal printer and reproduced on our commercial copier. Photo's are taken by a Sony DSC-F707 Digital still camera, using a 128 MB memory stick. The camera has the ability to take pictures in a no-light environment, which is useful for inside low light or no light building interiors, or during overcast days.

The pictures are downloaded in a Photo Suite program and reproduced at 640 X 480: 0.35 mega pixels. In addition, a disc is supplied with most reports of all the important photo's taken at the survey site. The image size duplicated makes it easy for e-mail attachments to be sent to your customer.



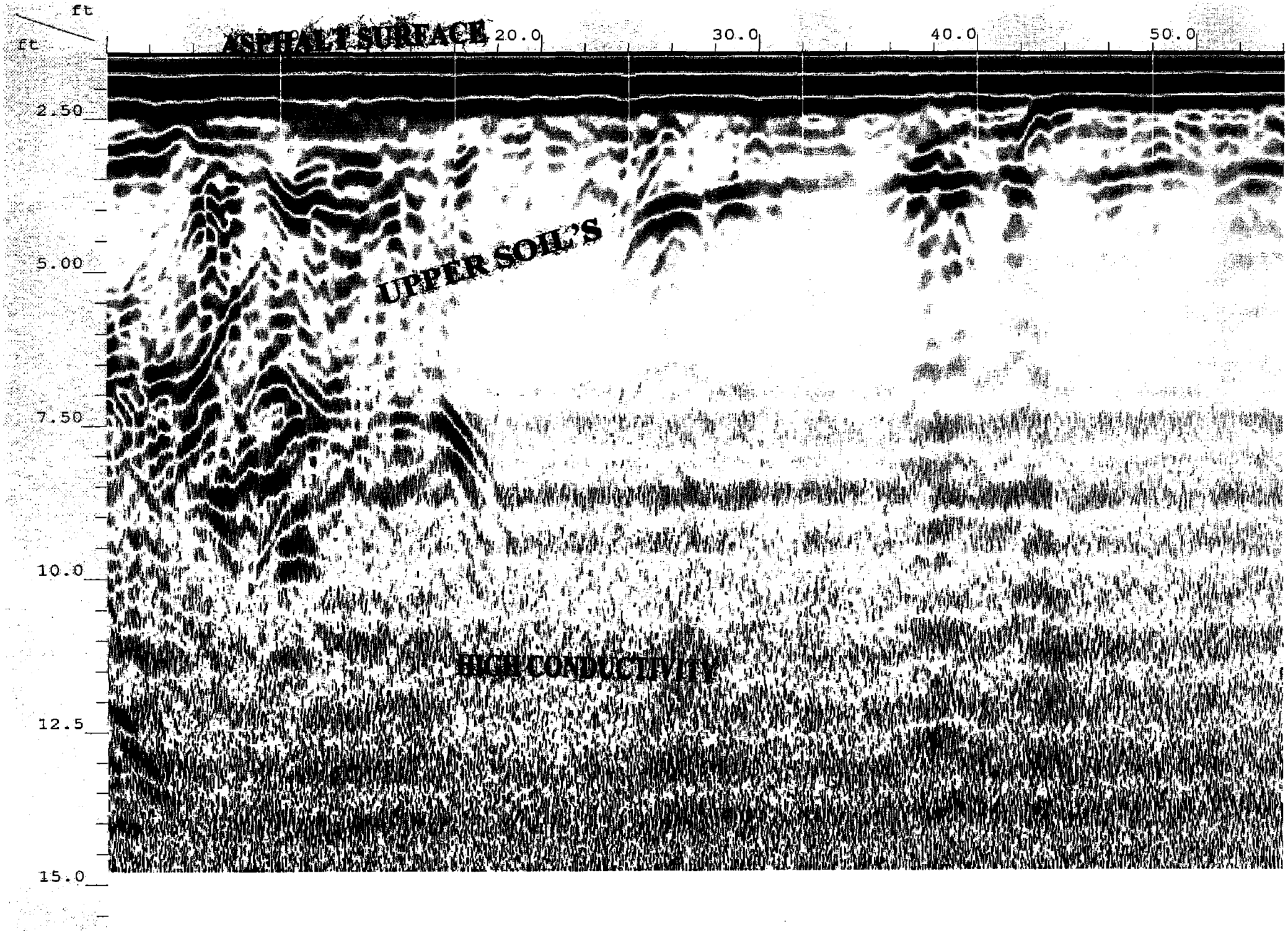
DTC1

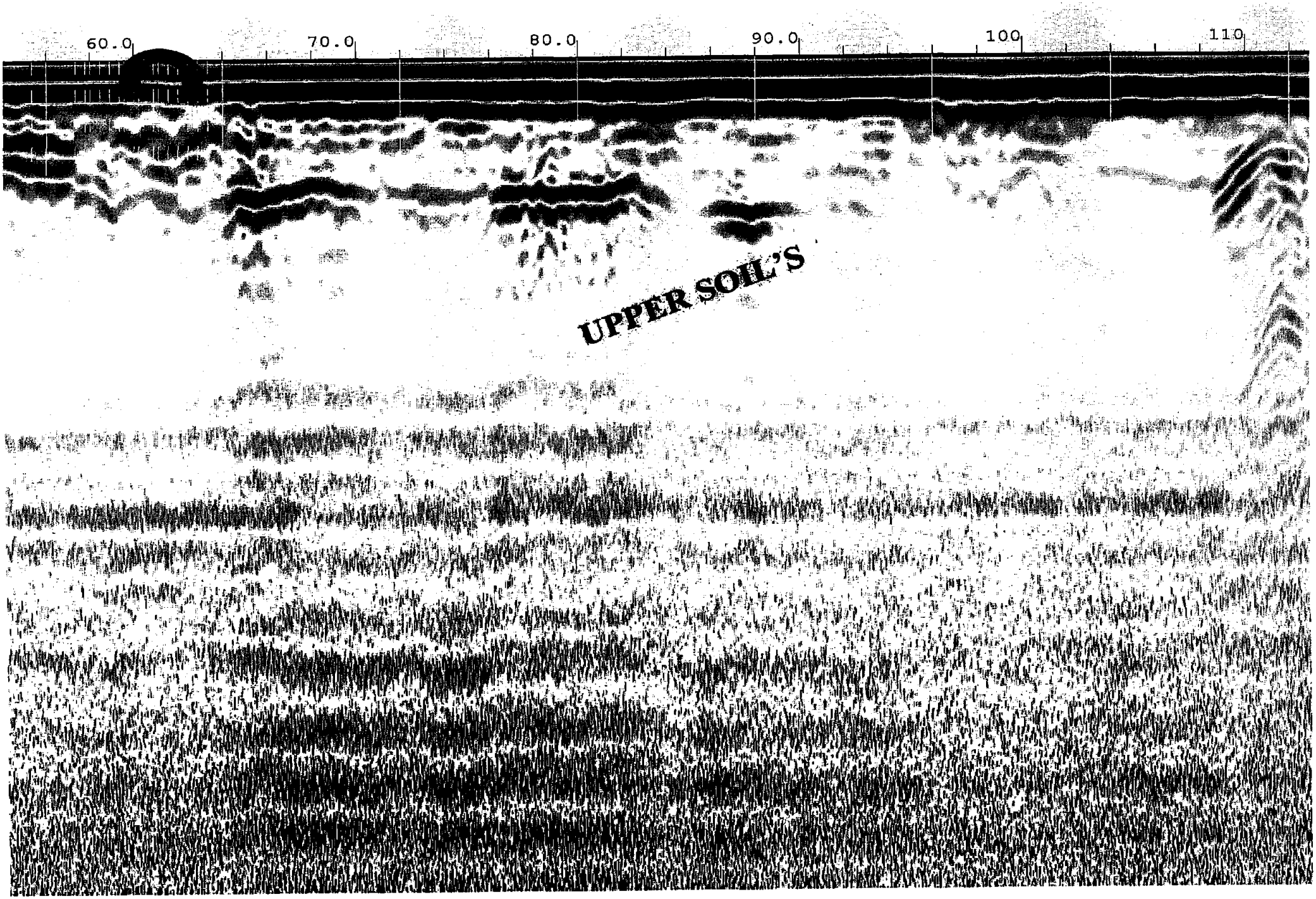
The data represents a westerly traverse at the northern end of the lot showing no unusual anomalies to indicate the presence of tanks.

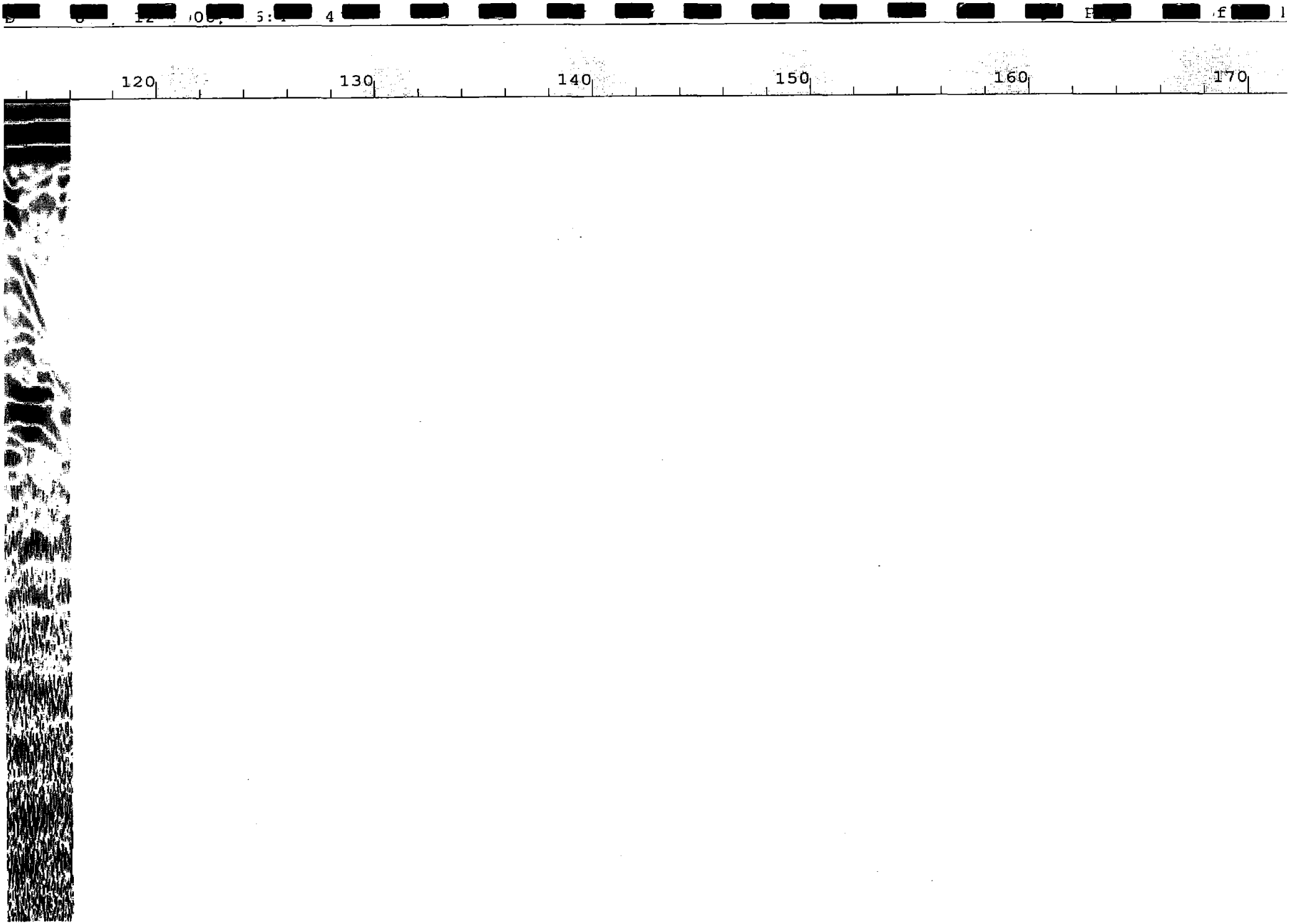
Created Jun, 12 2008, 06:42:32 Modified Jun, 12 2008, 06:43:34
Channel(s) 1 Samples/Scan 512 Bits/Sample 16
Scans/Second 100 Scans/Meter 59.0551 Meters/Mark 2.4384
Diel Constant 4

CHANNEL 1 400MHZ
Position 5.74 nS Range 60 nS
Vert IIR LP N =1 F =800 MHz
Vert IIR HP N =1 F =100 MHz
Position Correction -0.9 nS
Range Gain (dB) -20.0 29.0 47.0
Position Correction 5.74 nS

= 180°


ft
ft
ASPHALT SURFACE
20.0
30.0
40.0
50.0
2.50
5.00
7.50
10.0
12.5
15.0
UPPER SOIL'S
HIGH CONDUCTIVITY


60.0
70.0
80.0
90.0
100
110
UPPER SOIL'S

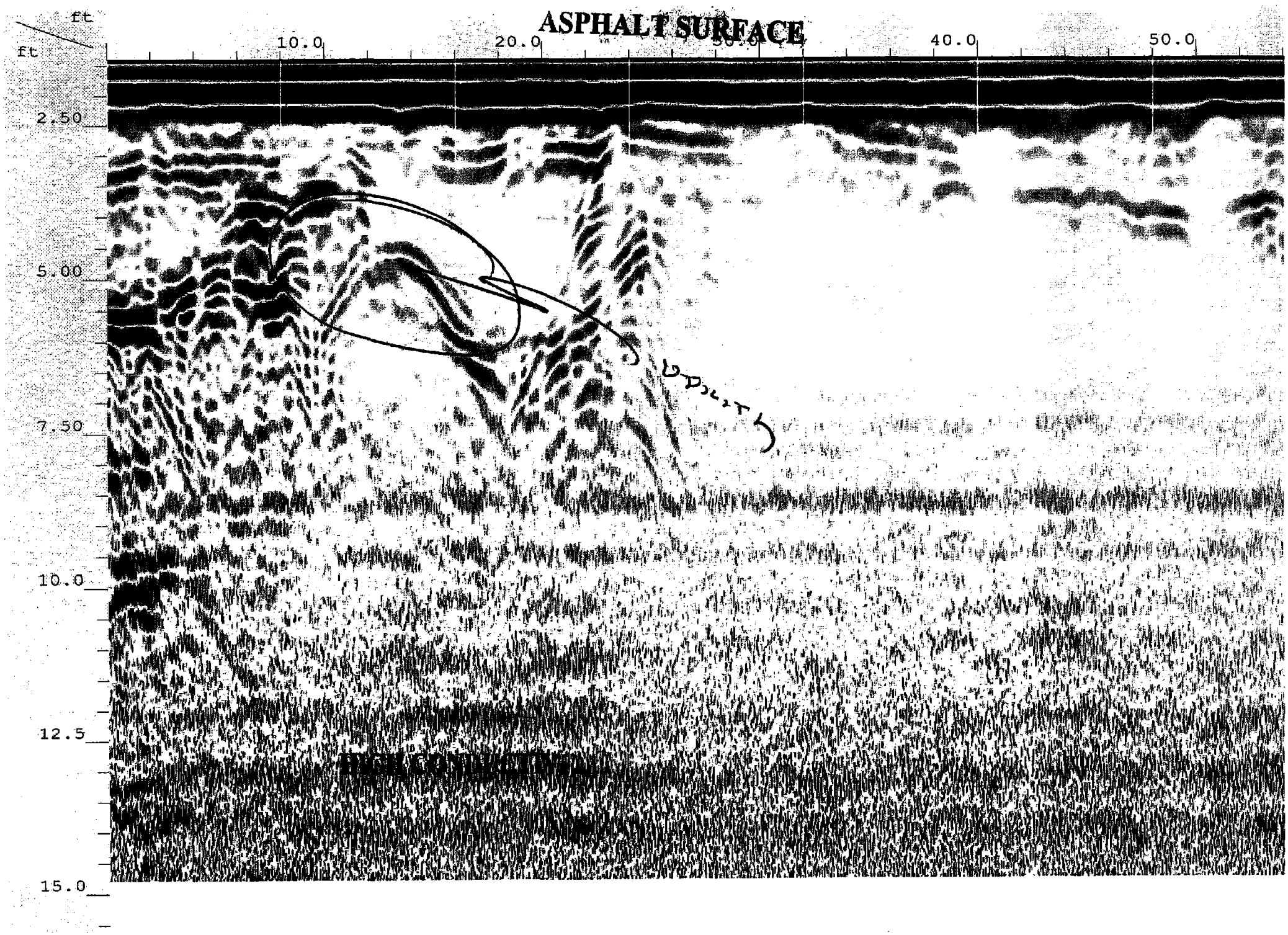

120
130
140
150
160
170

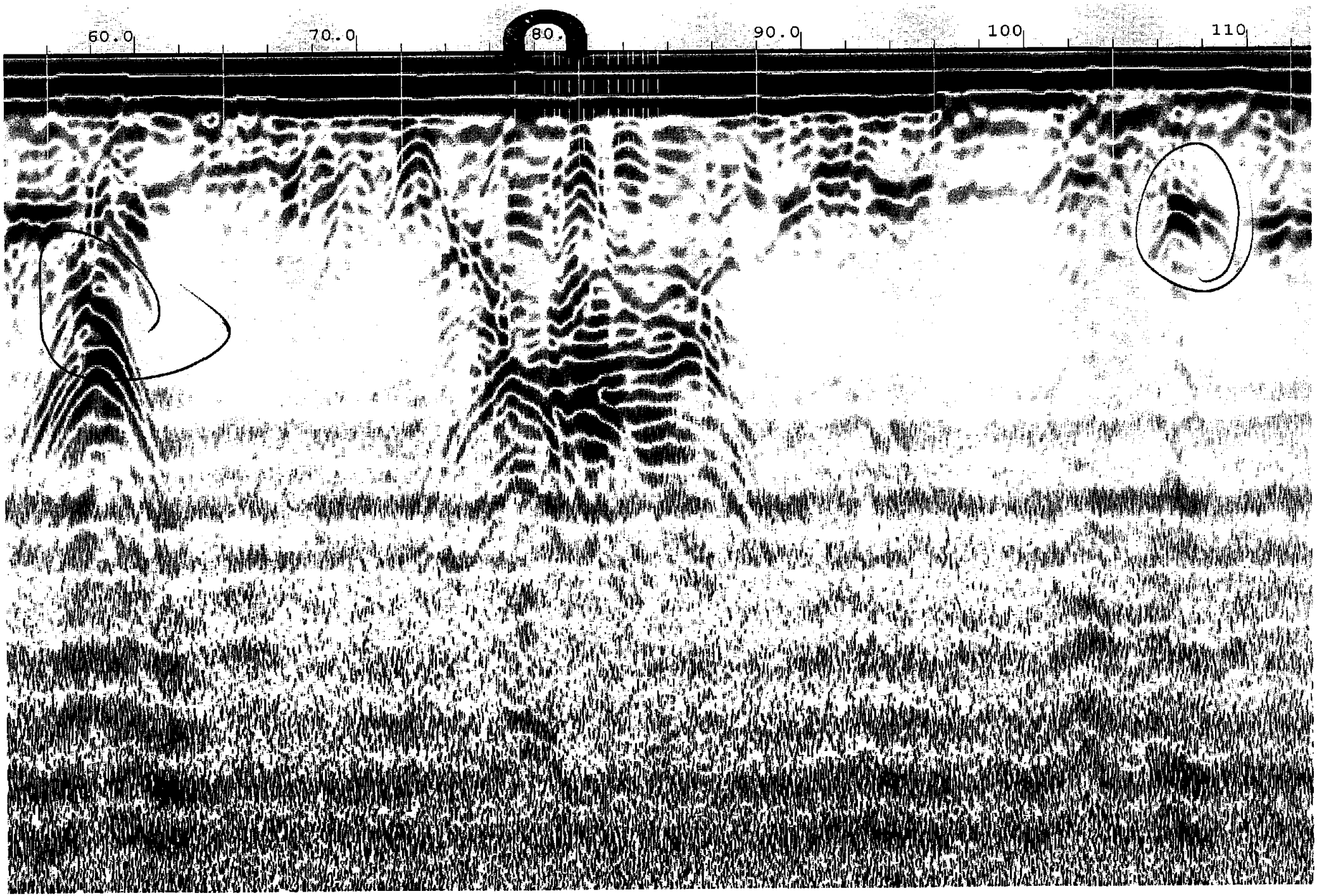
DTC6

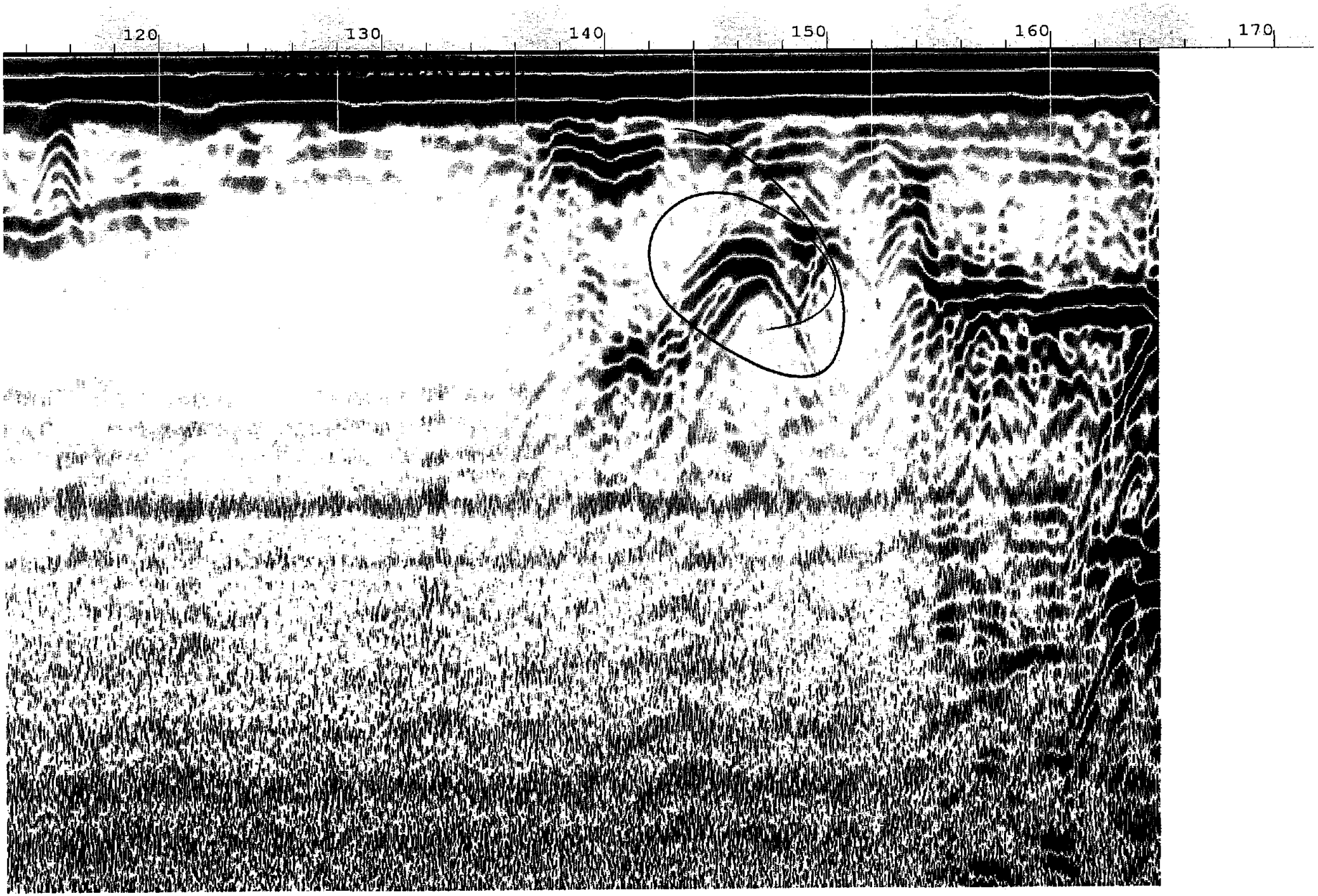
East/west traverse near the center of the front lot showing several parabolic features common to utilities. All were painted on site that were found in the GPR data.

Created Jun, 12 2008, 07:00:22 Modified Jun, 12 2008, 07:01:52
Channel(s) 1 Samples/Scan 512 Bits/Sample 16
Scans/Second 100 Scans/Meter 59.0551 Meters/Mark 2.4384
Diel Constant 4

CHANNEL 1 400MHZ
Position 5.74 nS Range 60 nS
Range Gain (dB) -20.0 29.0 47.0
Position Correction -0.9 nS
Vert IIR LP N =1 F =800 MHz
Vert IIR HP N =1 F =100 MHz
Position Correction 5.74 nS


ASPHALT SURFACE
ft
ft
10.0
20.0
30.0
40.0
50.0
2.50
5.00
7.50
10.0
12.5
15.0


60.0
70.0
80.
90.0
100
110


120
130
140
150
160
170

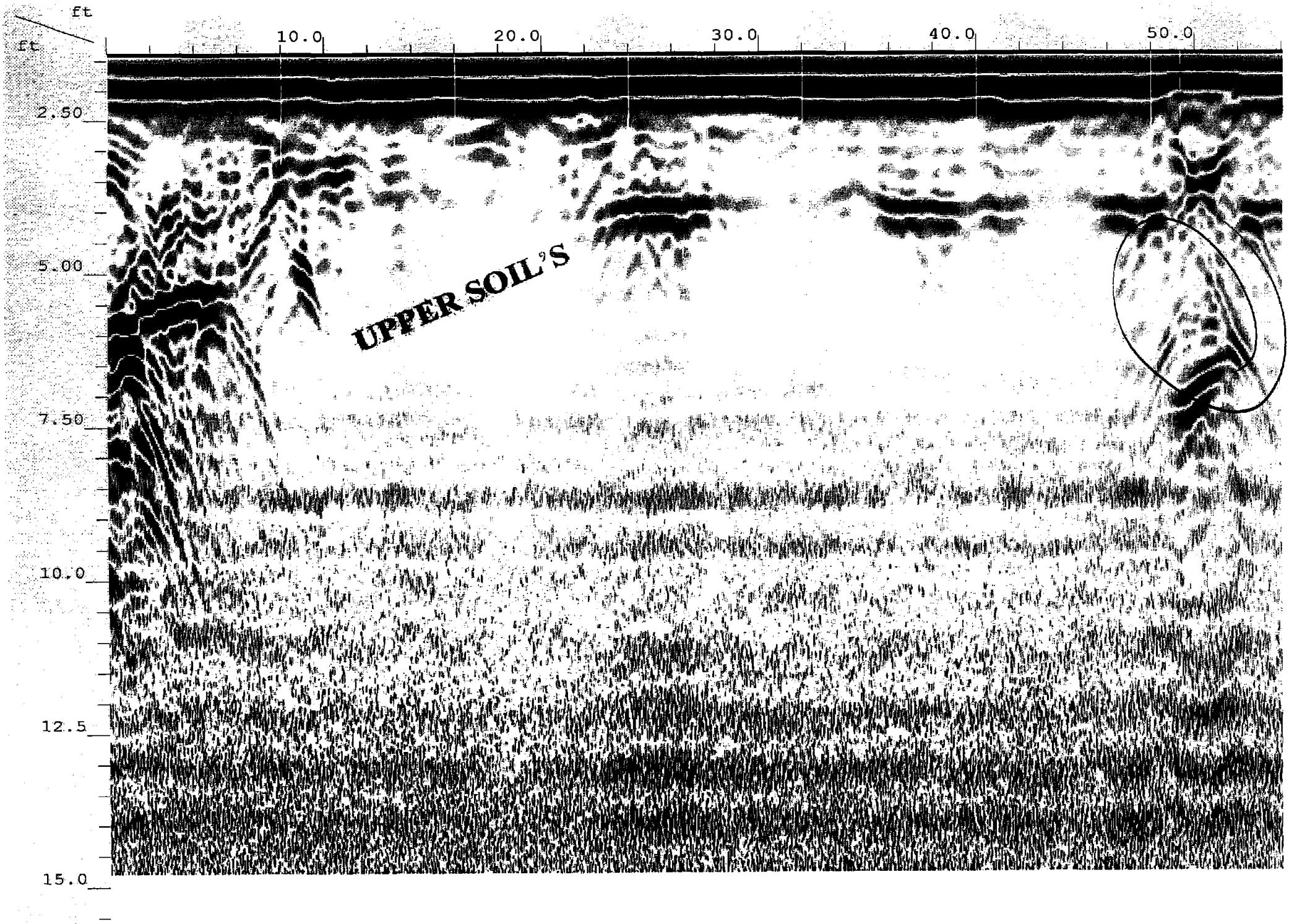
DTC5

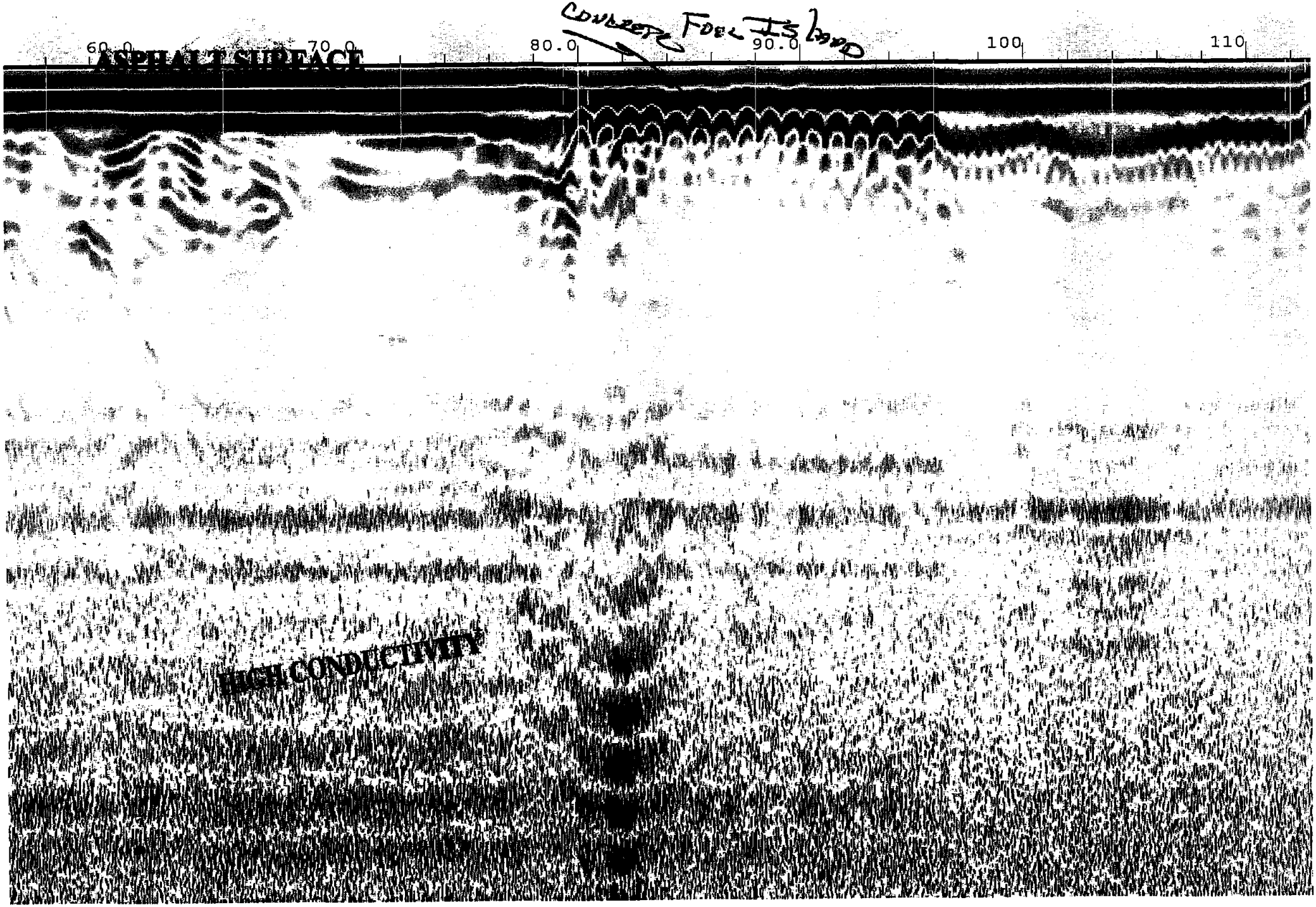
Parabolic features are utilities that were painted on site.

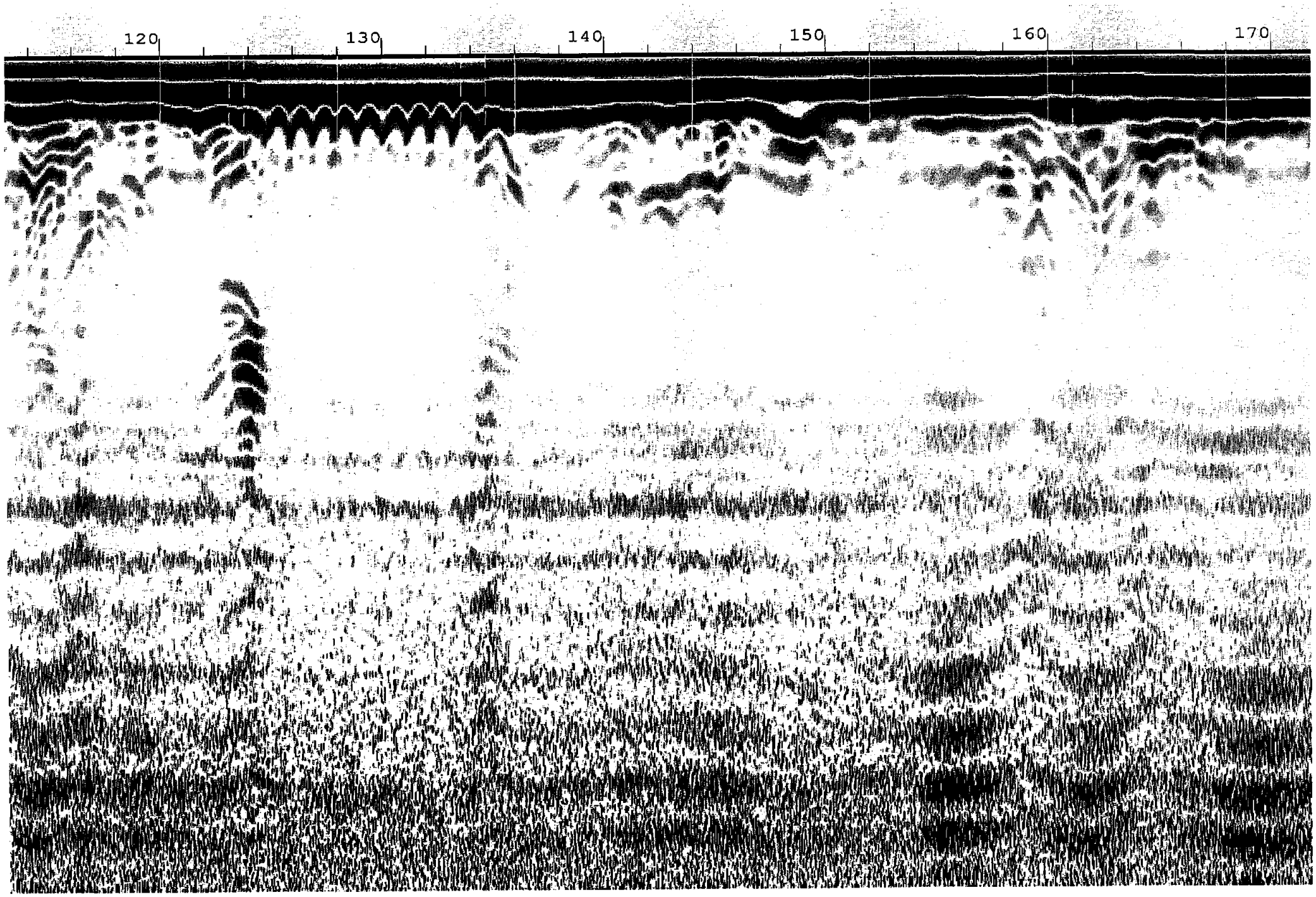
Created Jun, 12 2008, 06:57:38 Modified Jun, 12 2008, 07:00:00
Channel(s) 1 Samples/Scan 512 Bits/Sample 16
Scans/Second 100 Scans/Meter 59.0551 Meters/Mark 2.4384
Diel Constant 4

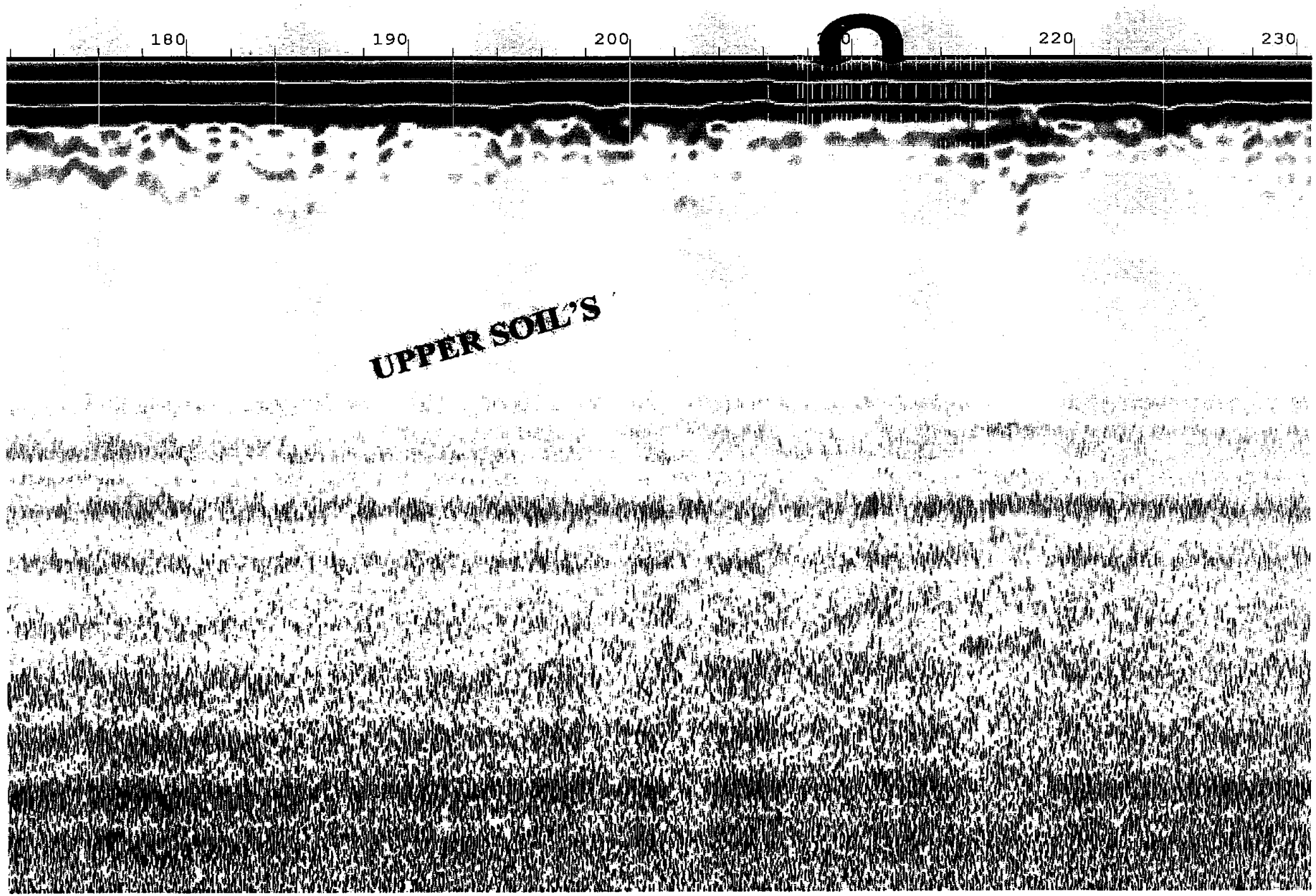
CHANNEL 1 400MHZ
Position 5.63 nS Range 60 nS
Range Gain (dB) -20.0 29.0 47.0
Position Correction -0.9 nS
Vert IIR LP N =1 F =800 MHz
Vert IIR HP N =1 F =100 MHz
Position Correction 5.63 nS

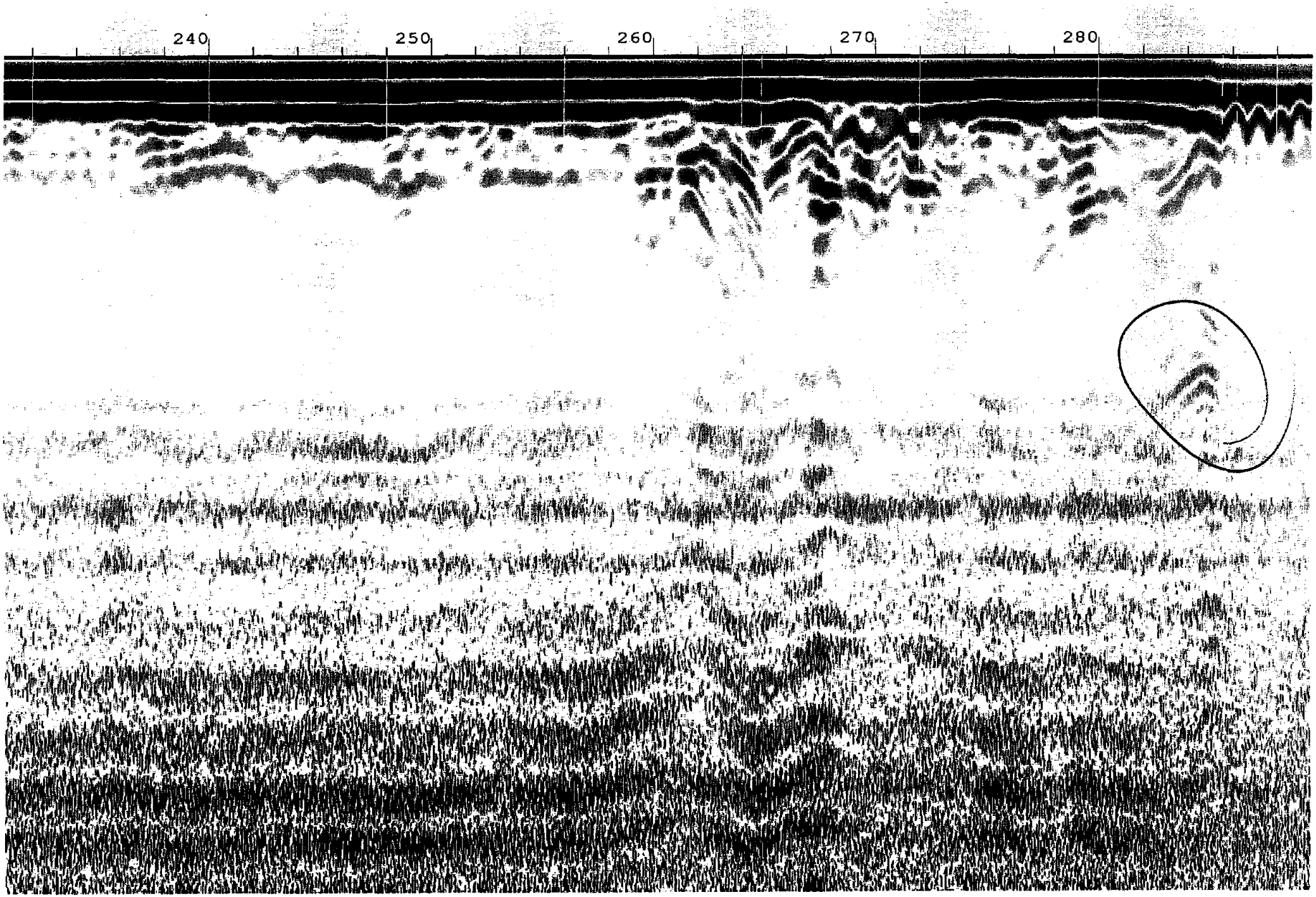
= 180°

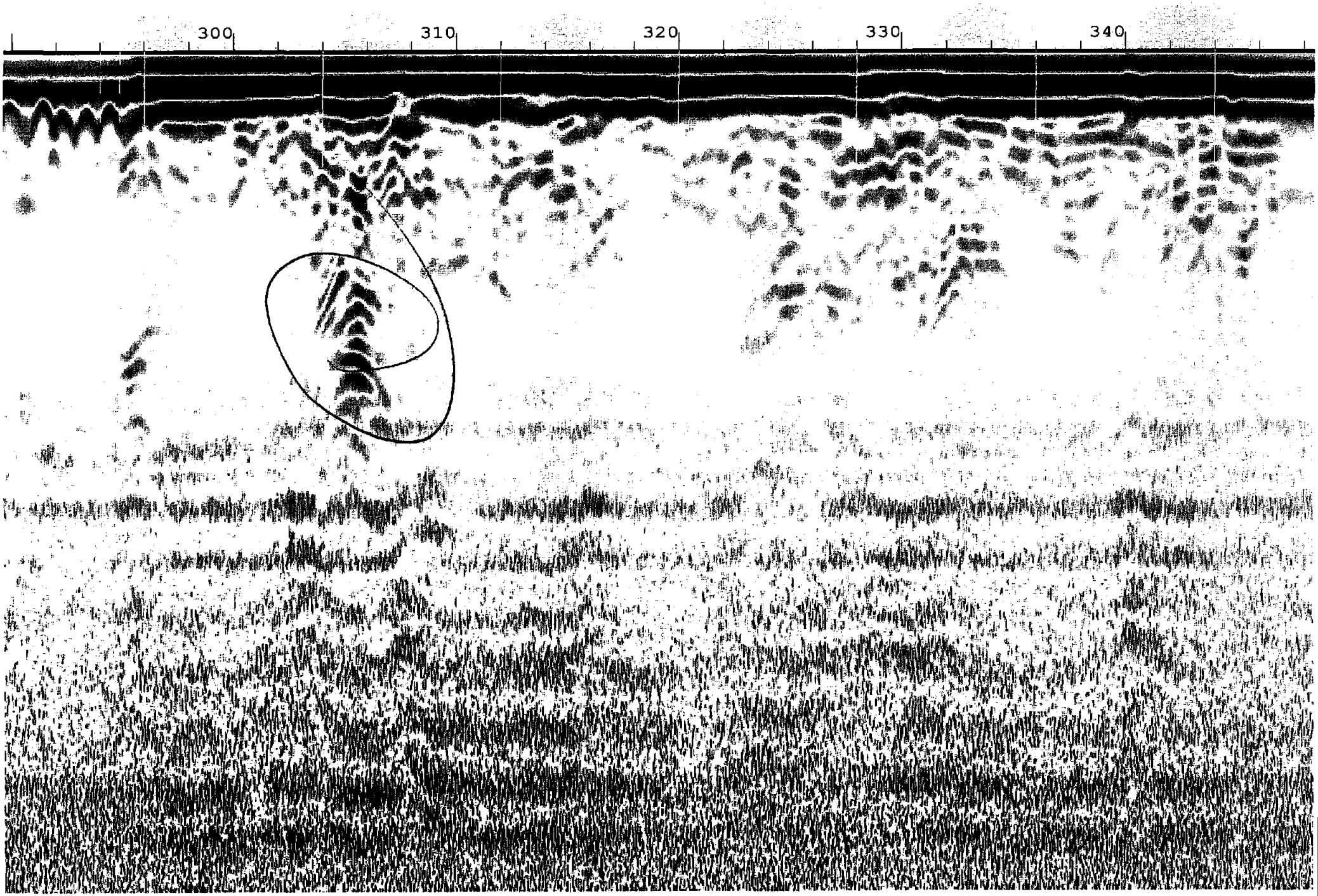

ft
ft
10.0
20.0
30.0
40.0
50.0
2.50
5.00
7.50
10.0
12.5
15.0
UPPER SOIL'S

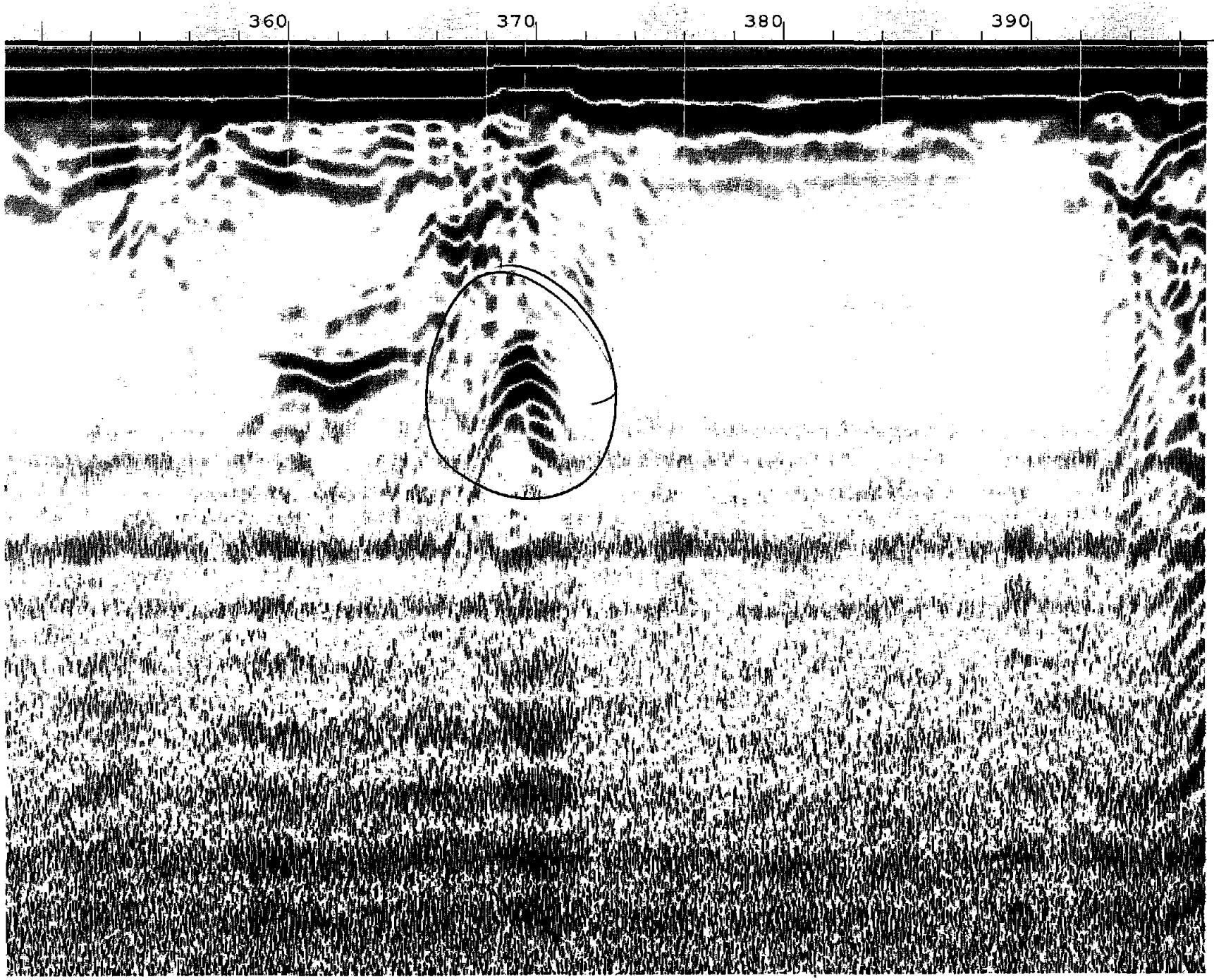

CONCRETE FOUL IS LOOD
60.0
70.0
80.0
90.0
100
110
ASPHALT SURFACE
HIGH CONDUCTIVITY


120
130
140
150
160
170


180
190
200
220
230
UPPER SOIL'S


240
250
260
270
280


300
310
320
330
340


360
370
380
390
400

5.0 ACQUIRING PROCEDURES

The acquiring of data from the field for the location and orientation of underground storage tanks, utilities, conduits w/in slab, rebar location, grave sites and other specific anomalies has been established by the *ground penetrating radar* for many years. Since *1988*, Sub-Surface Informational Surveys, Inc. has completed a multitude of successful investigations covering most phases of the *ground penetrating radar* profession. During an investigation, a cross-section of the project will be recorded on the hard drive of our computer. The data is then transferred, copied and duplicated to be made part of this report.

We do not necessarily record every traverse in most of our investigation since most of the information viewed on our monitor is related to the previous traverse. Traverses (I.e., profiles) are monitored on a constant basis. When a traverse is collected on the hard drive, it is also played back in the field for a second look. Where there is an *out-of-place characteristic*, it may be played back a number of times to determine its location and origin. This is recorded on the hard drive for further analyzing at our office. When specific anomalies are located, *all* are documented for reporting. Anomalies are marked in the field if requested to do so. Measurements are taken to identify the exact location such as a tank or utility.

During the start of all surveys, site characteristics and features must be documented to set the standard for that particular site such as soil conditions, conductive features, etc. While the survey is being conducted, there are periodic documentations which are used as a permanent visual comparison to confirm the standard of that site.

After the completion of our survey, it must be reasonably assured that the information is a true cross-section of the project and the information obtained is accurate according to our best professional efforts.

GPR PRINCIPLES
DIELECTRIC CONSTANTS
TWO-WAY SLOWNESS

Dielectric Constant = This parameter is the value of the dielectric constant used to convert two-way travel time to depth. The value ranges from 1 to 81 and depends upon the dielectric properties of the subsurface materials being profiled. *WARNING*: Dielectric constants for various materials, and thus the resulting depth scales, are only approximations. Additional approximates of various materials are as follows:

MATERIAL	D/C	MATERIAL	D/C
Air	1	Wet Granite	6.5
Snow Firm	1.5	Travertine	8
Dry Loamy/Clayey Soils	2.5	West Limestone	8
Dry Clay	4	West Basalt	8.5
Ice	4	Tills	11
Coal	4.5	Volcanic Ash	13
Asphalt	5	Wet Sands	15
Dry Granite	5	Wet Sandy Soils	23.5
Frozen Sand & Gravel	5	Dry Bauxite	25
Dry Concrete	5.5	Saturated Sands	25
Dry Sand & Gravel	5.5	Wet Clay	27
Potash Ore	5.5	Peats	61.5
Dry Mineral/Sandy Soils	6	Organic Soils	64
Dry Salt	6	Sea Water	81
Frozen Soil/Permafrost	6	Water	81
Wet Sandstone	5	Syenite Porphyry	6
MATERIAL	**T/ns/meters/ft**	**MATERIAL**	**T/ns/meters/ft**
Snow	8/2.5	Water	59/18
Asphalt	14/4.5	Dry Concrete	15/4.5
Wet Concrete	23/7	Dry Sands	13/4
Wet Sands	25.5/7.5	Saturated Sands	33/10
Dry Sand & Gravel	15.5/4.5	Frozen Sand & Gravel	14.5/4.5
Dry Loamy/Clayey Soils	10.5/3	Dry Mineral/Sandy Soils	16/5
Organic Soils	52.5/16	Wet Sandy Soils	32/9.5
Frozen Soil/Permafrost	16/5	Tills	22/6.5
Peats	51.5/15.5	Wet Clay	34/10.5
Dry Clay	13/4	Dry Granite	14.5/4.5
Wet Granite	16.5/5	Wet Basalt	19/6
Volcanic Ash	23.5/7	Potash Ore	15/4.5
Dry Bauxite	33/10	Syenite Porphyry	16/5
Travertine	18.5/5.5	Coal	14/4
Dry Limestone	15.5/4.5	Wet Limestone	18.5/5.5
Wet Sandstone	16/5	Dry Salt	16/5

Compliments of
Sub-Surface Informational Surveys, Inc.
E. Longmeadow, MA 01028
413-525-4666 Fax 413-525-2887