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Remedial Investigation and Construction Completion Report

Former S & S Cleaners and Dyers Site

13 Willow Street

Cohoes, New York

Site # 401063

Work Assignment # D-007618-1

July 2014

New York State Department of
Environmental Conservation
Albany, New York

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I, Daniel J. Loewenstein, certify that I am currently a NYS registered professional engineer and that this Report was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the DER Technical Guidance for Site Investigation and Remediation (DER-10) and that all activities were performed in full accordance with the DER approved work plan and any DER approved modifications.

I further certify that the interim remedial action construction activities discussed herein were completed in substantial conformance with the DER-approved interim remedial measures scope of work.

Daniel J. Loewenstein, P.E.
New York #066594

ARCADIS



Andrew R. Vitolins, P.G.
Principal Scientist



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Project Geologist

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Site # 401063

Work Assignment # D-007618-1

Prepared for:
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Environmental Conservation
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July 22, 2014

Malcolm Pirnie, Inc. was acquired by ARCADIS in July 2009.

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1. Introduction

This Remedial Investigation (RI) and Construction Completion Report has been prepared to summarize investigation and interim remedial measure activities at the former S & S Cleaners and Dyers Site, in Cohoes, Albany County, New York (site) (Figures 1 and 2). The RI was conducted under New York State Department of Environmental Conservation (NYSDEC) State Superfund Standby Contract Work Assignment No. D-007618-1. The objective of the RI was to evaluate the nature and extent of chlorinated solvents in the soil, groundwater, and soil vapor at the site; the potential for soil vapor intrusion into area properties; and mitigation of potential human exposure as necessary.

1.1 Site Location and Background

The former S & S Cleaners and Dyers Site located at 13 Willow Street, in the northern portion of the City of Cohoes (City) (Figure 1), consists of a vacant lot that was once occupied by a building containing a dry cleaning facility. The ground surface over the majority of the site is composed largely of gravel with minor asphalt paved areas. The site is flat with the exception of the rear approximately one-quarter of the parcel which slopes upward to a retaining wall up to five feet above the elevation of the remainder of the parcel. The site is located within a mixed residential-commercial neighborhood adjacent to the North Mohawk Street area of the City. The North Mohawk Street area is dominated by the former Harmony Mills textile complex and is one of the City's primary redevelopment target areas. The site is bordered by Willow Street and Worth Street to the east and west, respectively, and residential properties to the north and south. The City of Cohoes acquired the property through tax foreclosure in 1993. The building on the site was demolished in 2000 due to public safety concerns. The property is currently used as an informal parking lot.

1.2 Previous Investigations

The City of Cohoes received a grant under the United States Environmental Protection Agency's (USEPA) Brownfields Assessment Program to support economic development in the City through the identification, assessment, cleanup, and redevelopment of Brownfields properties. During the process of screening City-owned properties to assess where further investigation would be warranted, environmental database and historical city directory searches were conducted. Review of these historical data and local knowledge identified the 13 Willow Street site as containing a dry cleaning facility owned and occupied by S&S Cleaners from at least 1962 through 1976. The presence of a dry cleaning operation constitutes a recognized environmental condition as defined by the

American Society for Testing and Materials (ASTM) Standard E 1527-05 guideline for Phase I Environmental Site Assessments (ESAs). Given the historical environmental record of dry cleaning operations throughout the nation, there was a potential for soil and groundwater contamination at this and surrounding properties resulting from the release of chlorinated dry cleaning solvents. In addition, there was also a potential for vapor intrusion into the surrounding structures from any subsurface contamination. Consequently, the City proceeded directly to a Phase II ESA at the site.

On behalf of the City of Cohoes, Malcolm Pirnie, Inc. conducted a Phase II ESA at the site in 2009 (Malcolm Pirnie, 2009). Chlorinated volatile organic compounds (CVOCs) were found to be present in the subsurface soil, groundwater, and soil vapor at the site. One groundwater sample from the site contained tetrachloroethene (PCE) at a concentration greater than the corresponding NYSDEC Class GA Standard. The two on-site soil vapor samples contained PCE and trichloroethene (TCE) at elevated concentrations. These findings were reported to the NYSDEC Spill Hotline in March 2009 and Spill number 0814131 was issued for the site.

In November 2009, at the request of the NYSDEC and New York State Department of Health (NYSDOH), soil vapor intrusion evaluations were conducted at the adjacent properties to the north (9 Willow Street) and south (17 Willow Street) of the site. Additionally, a supplemental round of groundwater samples was collected from each of the five existing monitoring wells (Malcolm Pirnie, 2010a). PCE was detected at elevated concentrations in the basement and indoor air samples from 17 Willow Street and the sub-slab and basement air samples from 9 Willow Street. One groundwater sample, from well MW-2, contained PCE at a concentration greater than the corresponding NYSDEC Class GA Groundwater Standard. The concentration of PCE in the sample from MW-2 was consistent with that of the March 2009 Phase II ESA sampling. The NYSDEC and NYSDOH determined that vapor intrusion mitigation was necessary at 9 and 17 Willow Street.

In May 2010, at the request of the NYSDEC and NYSDOH, a soil vapor intrusion evaluation was conducted at 19/21 Willow Street. Additional soil, groundwater, and soil vapor sampling was also conducted (Malcolm Pirnie, 2010b). PCE was detected in the sub-slab and basement air at elevated concentrations, however, the NYSDEC and NYSDOH requested that additional indoor air samples be collected during the heating season to properly evaluate whether mitigation would be required at 19/21 Willow Street. PCE was detected at elevated concentrations in soil vapor samples collected along the Willow Street sewer line, suggesting that the sewer utility bedding material was acting as a preferential pathway for soil vapor migration. Soil samples from the northeast corner of

the site between seven and 10 feet below ground surface (bgs) contained PCE at concentrations up to three orders of magnitude greater than the corresponding 6 NYCRR Part 375 Residential Soil Cleanup Objective (SCO), suggesting that this portion of the site was a potential source area for soil vapor and groundwater contamination. The groundwater sample from well MW-7, within this area, contained PCE, TCE, cis-1,2-dichloroethene, chlorobenzene, 1,1-dichloroethene, and vinyl chloride at concentrations greater than the corresponding NYSDEC Class GA Groundwater Standards. The concentrations of PCE and TCE in the sample from MW-7 were greater than the NYSDEC Class GA Groundwater Standard by four and two orders of magnitude, respectively. The groundwater sample from down-gradient well MW-8 contained PCE (7 micrograms per liter [µg/L]) and TCE (14 µg/L) at concentrations greater than the corresponding NYSDEC Class GA Groundwater Standards, indicating that CVOC-impacted groundwater has migrated off-site. Dissolved oxygen values between approximately 4.1 and 8.7 milligrams per liter (mg/L) and oxidation-reduction potential values between approximately 90 and 131millivolts (mV) measured at MW-6, MW-7, and MW-8 during groundwater purging suggested oxidizing subsurface conditions with limited potential to naturally degrade the CVOCs.

As directed by the NYSDEC and NYSDOH, the City installed soil vapor mitigation systems at 9 and 17 Willow Street in September 2010. A sub-slab depressurization system (SSDS) was installed at 9 Willow Street, which has a full-height basement with a concrete slab. At 17 Willow Street, which has a low-height basement with dirt floor, a sub-membrane depressurization system was installed by placing air extraction piping beneath an EPDM membrane sealed to the building foundation. Differential pressure testing conducted in November 2010 verifying the efficacy of the systems was performed and the results of the testing were sent to the NYSDEC and NYSDOH along with the final system layouts.

In November 2010, at the request of the NYSDEC and NYSDOH, additional indoor air sampling was conducted at 19/21 Willow Street and an additional round of groundwater samples was collected from the three new wells, MW-6, MW-7, and MW-8, installed in May 2010 (Malcolm Pirnie, 2011). PCE was detected at a low concentration in the air sample from the basement of the 19 Willow Street (northern) side of the building. The NYSDEC and NYSDOH determined that vapor intrusion mitigation was not required for this property. The groundwater sample from well MW-7, contained PCE, TCE, cis-1,2-dichloroethene, chlorobenzene, 1,1-dichloroethene, and vinyl chloride at concentrations greater than the corresponding NYSDEC Class GA Groundwater Standards. The groundwater samples from wells MW-6 and MW-8 did not contain CVOCs at

concentrations greater than the corresponding NYSDEC Class GA Groundwater Standards.

In May 2011 spill number 0814131 was closed following the transfer of the site into the Inactive Hazardous Waste Site Program.

1.3 Geology/Hydrogeology

The Ordovician Normanskill Shale and Austin Glen Formations, consisting largely of shale, are present beneath the site and the surrounding area (Fisher et al., 1970). Bedrock was not encountered during the Phase II ESA or subsequent investigative activities. Drivepoints advanced to refusal at the site suggest that bedrock is present at an approximate depth of 27 feet below ground surface (bgs). Off-site, refusal was reached at depths of approximately 18 (till) and 20 feet (bedrock) bgs at well locations MW-4 and MW-5, respectively. During the RI, the thickness of overburden and/or fill materials in the vicinity of site was generally between 20 and 30 feet, although a thicker overburden sequence (greater than 50 feet) is present in the source area. Overburden materials overlie competent bedrock composed of what is likely the Normanskill Shale formation. Locally, a glacial till unit is present between the competent bedrock and overlying silt and clay. Consistent with field observations, natural overburden materials in the area are characterized as lacustrine silt and clay (Caldwell et al., 1987). Urban fill materials overlie the clay and silt. Groundwater flow at the site is generally to the north toward the Mohawk River, which is the regional groundwater discharge.

2. Site Investigation

The scope of work for the RI was designed to further characterize the magnitude and extent of contaminants associated with the former dry cleaning operations (i.e., chlorinated VOCs [CVOCs]), the potential for off-site migration of contaminants, and the potential for vapor intrusion. The base scope of work included direct-push soil borings, soil sampling, installation of additional soil vapor points, installation of additional groundwater monitoring wells, groundwater sampling, interim remedial measures (IRMs) in the form of source area excavation; and soil vapor intrusion evaluation, and mitigation, if required. Based on site conditions and/or preliminary indications of contamination, the following changes/additions to the scope were made:

1. Soil vapor intrusion sampling was not conducted at 14, 16, 18, 20, or 19/21 Willow Street because access to the buildings was either not granted by the property owners or sampling was unable to be scheduled with the property owners.

2. The SSDS at 17 Willow Street was found to be inoperable and was subsequently repaired.

3. The depth of excavation for the Soil IRM was extended from 10 feet bgs to approximately 14 feet bgs in the eastern portion of the excavation area based on field indications of contamination.

4. Confirmation soil samples from the eastern portion of the excavation were analyzed under standard turnaround time as the maximum intended extent of excavation had been reached with satisfactory field screening results.

5. The last load of CVOC-impacted soil was placed into a roll-off container to allow for confirmation sampling and backfilling to proceed.

6. Installation of a bedrock groundwater monitoring well on the east side of Willow Street was not possible due to the presence of overhead utility lines. The well location was instead moved to the western side of the City-owned lot at the corner of Willow Street and Vliet Street.

7. Installation of a bedrock groundwater monitoring well on-site was not possible as auger refusal was encountered before reaching bedrock. A deep overburden well was installed in its place.

8. Groundwater sampling of bedrock monitoring wells was conducted using passive diffusion bags as the wells could not provide sufficient water for traditional purging and sampling methods.

9. Soil vapor intrusion mitigation was not required for buildings sampled during the RI.

These changes were approved by the NYSDEC during the course of the RI.

An analytical laboratory approved by the New York State Department of Health (NYSDOH) under the Environmental Laboratory Approval Program (ELAP) analyzed all samples collected during the investigation. Analytical results were reported in ASP Category B data packages. Data Usability Summary Reports (DUSRs) were prepared upon the receipt of all analytical data to ensure that the quality of the data was sufficient to evaluate remedial alternatives. Sample collection, handling activities, and QA/QC sampling were conducted in accordance with the Generic Quality Assurance Project Plan

(QAPP), which was previously submitted to the NYSDEC for work conducted under the NYSDEC State Superfund Standby Contract No. D007618.

2.1 Subsurface Sampling

Subsurface soil samples were collected from eight locations at the site, the adjacent property to the north, and the Willow Street right-of-way (ROW) (Figure 3), to further delineate CVOCs in the suspected source area. Normal utility clearance activities, consisting of reviewing available site drawings and contacting Dig Safely New York, were conducted prior to beginning the subsurface investigation.

2.1.1 Soil Borings

Soil borings were drilled using direct-push drilling methods. Soil samples were collected continuously from the ground surface to the final depth of each boring using a macro-core sampler. Upon retrieval, each macro-core was opened and the soil was screened using a photoionization detector (PID), visually inspected for indications of contamination (e.g., staining and/or sheens) and buried debris, and classified by the on-site field geologist.

2.1.2 Soil Sample Collection

Eight borings, as shown on Figure 3, were drilled to evaluate the areas of concern on the site and adjacent properties. The borings were advanced using direct-push drilling methods from ground surface to approximately 20 feet bgs. Up to five soil samples were collected from each boring for analysis of Target Compound List (TCL) volatile organic compounds (VOCs) by USEPA Method 8260. One sample from each boring was also analyzed for TCL semi-volatile organic compounds (SVOCs) by USEPA Method 8270, Target Analyte List (TAL) metals by USEPA Method 6010/7471, and polychlorinated biphenyls (PCBs)/pesticides by USEPA Methods 8082 and 8081, respectively.

Soil boring logs are presented in Appendix A.

2.2 Soil IRM

A continuous evaluation of the information and data obtained during the RI was performed in consultation with the NYSDEC. Based upon the results of the current and previous investigations, and with the approval of the NYSDEC, an Interim Remedial Measure (IRM) was warranted at the site, in the form of source area soil excavation.

The Soil IRM was conducted at the site to remove source material that was contributing to the off-site groundwater and soil vapor contamination. The IRM consisted of the excavation of soil that contained CVOCs at concentrations greater than the corresponding NYCRR Part 375 Residential Soil Cleanup Objectives (SCOs). The Soil IRM was conducted in accordance with NYSDEC DER-10 Technical Guidance for Site Investigation and Remediation (DER-10). A Community Air Monitoring Plan (CAMP), including real-time monitoring of VOCs as well as particulates at the downwind perimeter of the designated work area, was followed for all ground-intrusive activities. The dust monitoring data are included in Appendix B. The action level of 0.150 milligrams per cubic meter (mg/m^3) described in the CAMP and DER-10 was exceeded sporadically during the Soil IRM; however these exceedances were due to the excavator driving over the existing stone dust surface cover at the site, and not from CVOC-impacted soil. Periodic application of water to the ground surface was used to minimize dust. Photographs taken during the excavation are included in Appendix C.

The initial excavation limits were an approximately 22 x 44 foot area and a depth of 10 feet bgs based on previous soil sampling results. The actual horizontal and vertical extent of the excavation was based on the results of confirmation sampling and field screening conducted during the IRM. Because the greatest concentrations of CVOCs in soil were at or immediately below the water table and groundwater did not infiltrate the excavation during the work, the vertical extent of the excavation was extended to remove as much CVOC-impacted soil as practical.

2.2.1 Specific Work Activities

The following specific work activities were conducted during the Soil IRM at the site.

- **Excavation**: Prior to any excavation activity, underground utilities were located and flagged to prevent accidental interruption of such services. Soil containing CVOC concentrations in excess of the Part 375 Residential SCOs was then excavated to the limits described above.

- **Water Control**: The fill and grading was implemented to direct water away from the excavation. Drainage water was disposed of in a manner to prevent flooding, erosion, or other damage to any portion of the site or to adjoining areas and in conformance with applicable requirements. The excavation extended below the water table, however, groundwater did not flow into the excavation due to the low hydraulic conductivity of the soil.

- **Air monitoring**: Monitoring for volatile vapors and airborne dust was conducted using a respirable airborne dust monitor (MIE Miniram or equivalent) and a PID, respectively, during excavation activities. Monitored levels did not exceed the action level established by the Safety Officer for mitigative action.

- **Confirmation Testing**: Confirmation sampling was conducted in accordance with DER-10 to evaluate whether all unsaturated soil with CVOCs concentrations greater than the SCOs had been excavated. Soil samples were collected by the on-site geologist with the assistance of the contractor. Each soil sample from the western and central portion of the excavation was sent under chain-of-custody to an analytical laboratory for analysis of the TCL VOCs by USEPA Method 8260 under a 24-hour turnaround time. The contractor was responsible for coordinating work in a manner that took into account laboratory turnaround times. Because the eastern excavation limit was not intended to extend under the adjacent sidewalk, confirmation samples from this portion of the excavation were analyzed under standard turnaround time as the results would not affect remaining field activities.

- **Transport and Disposal**: Excavated soils were placed into dump trailers for transport to the selected off-site disposal location. The soil excavated from below five feet bgs was disposed of as an F002 hazardous waste based on known site history and previous sampling.

- **Backfilling**: Once testing results confirmed that soil containing CVOCs at concentrations in excess of Part 375 Residential SCOs had been excavated, or with the approval of the on-site NYSDEC representative, clean general fill and the upper five feet of excavated soil, was used to backfill the excavated area to finished grade. Backfill material was tested to confirm that it did not contain contaminants at concentrations greater than the corresponding Part 375 Residential SCOs before being placed in the excavation. Backfilled materials were placed in lifts that did not exceed 12 inches and backfilled areas were compacted using a mechanical tamper to minimize settling.

- **Site Restoration**: Prior to final demobilization from the site, the property was restored to original condition or better. Areas of excavation were backfilled and compacted to the existing grades. A top coat of crusher run gravel was placed and compacted. The northern property line fence that was removed during the remedial activities was replaced. Monitoring wells MW-6 and MW-7, which were

abandoned prior to the IRM to facilitate excavation activities, were replaced at the conclusion of the IRM activities.

2.2.2 Costs

The original estimate for the Soil IRM was $65,600 and the lowest price quotation was $59,735, submitted by Clean Harbors Environmental Services, Inc. NYSDEC-approved change orders included:

1. An increase in the unit rate for soil disposal due to the originally planned disposal facility's inability to accept the soil and resulting change in disposal facility; and

2. The use of roll off containers to stage the last two loads of soil to facilitate confirmation sample collection.

Based on field screening, excavation limits were greater than originally planned and additional soil was excavated, requiring additional backfill, to complete the IRM. Originally budgeted disposal of liquids and sludges was not necessary during the IRM. The final cost including change orders and added scope was $119,059. These costs are itemized in Table 1.

2.3 Vapor Intrusion Assessment

Soil vapor samples were collected from six of the 10 existing vapor points at the site and three of the four new soil vapor points installed along the sewer line as shown on Figure 3, to evaluate the preferential pathway migration and the potential for soil vapor intrusion of CVOCs into nearby residences. Sub-slab soil vapor and indoor air samples were collected from 8 Willow Street as shown on Figure 3. On-site inspection of the existing sub-slab depressurization systems (SSDSs) in 9 and 17 Willow Street was performed. The system at 17 Willow Street was found to be inoperable and was subsequently repaired.

Prior to sample collection, the NYSDOH Indoor Air Quality Questionnaire and Building Inventories were completed for each building, to the extent possible. As part of the questionnaire, a product inventory was prepared to identify potential confounding sources. Building questionnaires and photographs are provided in Appendix D. Confounding sources for CVOCs were not discovered during the pre-sampling inspections and surveys.

Each sample was collected concurrently using sampling procedures in accordance with the NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York, dated October 2006. All air samples were collected using 6-liter summa canisters equipped with pre-calibrated flow controllers. All sub-slab vapor, indoor, and outdoor air samples were collected over a 24-hour time period. All exterior soil vapor point samples were collected over a one hour time period. Samples from each monitoring point were sent to a NYSDOH ELAP and NYSDEC ASP-certified analytical laboratory under chain-of-custody procedures for analysis of VOCs by USEPA Method TO-15. The air sampling locations are shown on Figure 3.

2.3.1 Soil Vapor Point Installation

The locations of subsurface utility conduits, as marked by Dig Safely New York, were previously surveyed and added to the site basemap to evaluate potential preferential pathways for soil vapor migration (Figure 3). Four permanent soil vapor points were installed adjacent to the sewer utility bedding materials based on utility markouts and discussions with the City of Cohoes Department of Public Works (Figure 3). Soil vapor points were installed using direct-push drilling methods to advance a borehole to an approximate depth of five feet bgs. Upon reaching the target depth, a six-inch small-diameter stainless steel screen attached to Teflon or Teflon-lined tubing was lowered to the bottom of the borehole. The bottom one-foot of the borehole was then backfilled with clean silica sand. The remaining borehole annulus was backfilled to the surface with hydrated bentonite. The point was completed with a flush mount casing.

2.3.2 Sub-Slab Point Installation

Sub-slab soil vapor samples were collected from just below the concrete building slab through a small-diameter borehole drilled with a hammer drill. The procedures for temporary sub-slab soil vapor point construction were as follows:

- Core through the floor using a hammer drill.
- Drill into the sub-slab material to a depth of no more than two inches beneath the base of the concrete slab.
- Insert Teflon lined polyethylene tubing, suspending the end of the tube approximately ¼-inch above the bottom of the hole.

- Backfill the borehole with clean, coarse grained, silica sand up to the bottom of the concrete slab.

- Seal the temporary sample probe to the surface with bentonite or melted beeswax.

- Connect a three-way valve to the Teflon tubing (with valves closed). The three-way valve will be used to connect the vapor sampling point to the sampling train without allowing indoor air to mix with soil vapors.

- The sampling point and tubing was purged at a rate of 0.2 liters per minute or less, using a syringe, until one to three sampling point volumes were removed.

- Upon completion of the sub-slab soil vapor sampling, all sampling equipment was removed and the holes were filled with cement.

2.3.3 Tracer Gas Testing

A tracer gas test was performed in accordance with NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York (NYSDOH, 2006) to confirm that the soil vapor probes were constructed in a manner that minimized the entrainment of ambient air into the soil vapor samples. Helium was used as the tracer gas since it is non-toxic, non-reactive, and provides a sensitive response that can be monitored using a portable helium detector. Tracer gas testing was performed at all soil vapor and sub-slab sampling locations. A small plastic container was placed over the sampling point, filled with helium, and measured using a helium detector to ensure 100 percent concentration of helium in the enclosure. A syringe was used to purge the sampling tube into a Tedlar® bag which was tested using the helium detector and a PID. If high concentrations (greater than 10 percent) of tracer gas were observed in the Tedlar® bag, the probe seal was enhanced to reduce the infiltration of air. Once the probe seal's integrity was confirmed, the 6-liter sampling canister with a vacuum gauge and flow controller was connected to the sample tubing and the point was sampled.

2.3.4 Sampling

All air samples were collected using a Summa canister sampling train, which consisted of a summa canister, flow controller, particulate filter, pressure gage, and associated fittings. All canisters were batch-certified as analyte-free by the analytical laboratory prior to use. Flow regulators calibrated and supplied by the analytical laboratory were used to allow for continuous sampling over the designated sampling period. Each flow regulator was

equipped with a filter to prevent particulate matter from entering the canister. The following procedure was used for the collection of soil vapor, sub-slab, indoor, and outdoor air samples:

- Note the environmental conditions in the sample area on the sample collection sheet.
- Remove the brass fitting covering the 6-liter Summa canister sampling port using a wrench.
- Assemble the sampling train, connecting the flow controller with integral pressure gage to the Summa canister sampling port. Each fitting should be hand tightened and then tightened with a wrench approximately ¼ turn.
- Confirm that the sampling train is air tight by conducting a vacuum test. Place the brass cap at the end of the sampling train (particulate filter), quickly open and close the sampling valve and monitor the vacuum on the pressure gage. If the vacuum decreases, there is a leak in the system and the fitting should be rechecked and the vacuum test redone.
- Initiate sampling by opening the Summa canister valve. Record starting time and the vacuum within the canister on the sample collection sheet and canister identification tag.
- Check the sampling train pressure gage during the first hour of sampling to confirm that the air sampling is proceeding as planned.
- When the designated sampling time has elapsed since initiation of sampling, close the canister valve. Check the vacuum within the canister using the pressure gage and record the measurement on the sample collection sheet and canister identification tag.
- Since the flow rate into the canister can fluctuate due to variations in atmospheric conditions, the measured final vacuum may range from 2 to 12 inches of mercury (Hg). If the measured vacuum is greater the 12 inches of Hg or less than 1.0 inches of Hg, the sample may be flagged and re-sampling may be required.
- Disassemble the sampling train and place the brass cap on the sampling port of the canister and tighten. The air sampling is complete.

2.3.5 SVI IRM

A continuous evaluation of the information and data obtained during the RI was performed in consultation with the NYSDEC. Based upon the results of the vapor intrusion assessment, IRMs in the form of SSDSs were not required.

2.4 Groundwater Sampling

2.4.1 Groundwater Monitoring Well Installation

Two new and two replacement overburden groundwater monitoring wells were installed at the locations shown on Figure 3. One, 1-inch diameter, PVC groundwater monitoring well (MW-9) with flush-mount protective cover was installed at the boring SB-19 location at 9 Willow St using direct-push drilling methods. Well MW-9 was installed with a 10 foot screen to approximately 20 feet bgs. Two, 2-inch diameter, PVC groundwater monitoring wells (MW-6R and MW-7R) were installed to a depth of approximately 20 feet bgs to replace MW-6 and MW-7 using hollow-stem auger drilling methods. Each well was completed with 10 foot screens and flush-mount protective covers. Due to auger refusal prior to encountering bedrock, a 2-inch diameter PVC groundwater monitoring well (MW-12) with a 10 foot screen was installed to a depth of approximately 50 feet bgs onsite.

Two bedrock groundwater monitoring wells (MW-10B and MW-11B) were installed at the locations shown on Figure 3 using hollow-stem auger and rotary drilling methods. Each well was constructed of 4-inch inner diameter (ID) PVC casing from ground surface to approximately five feet into competent bedrock (approximately 35 feet bgs) using 6 ¼" HSA to the top of bedrock and a 5- 7/8 inch O.D. roller bit with mud, water, or air rotary drilling techniques for the 5 foot rock socket. Monitoring well MW-10B was completed to the final depth of approximately 45 feet bgs using NQ wire-line rock coring techniques followed by 3- 7/8 inch O.D. roller bit to ream out the hole. Monitoring well MW-11B was completed to the final depth of approximately 45 feet bgs using a 3- 7/8 inch O.D. roller bit. All wells were completed with flush-mount protective covers.

Upon completion, all new monitoring wells were developed to minimize turbidity in groundwater samples collected from each well and to improve their hydraulic properties. Development water generated was collected in UN-approved 55-gallon steel drums and staged at the site for pickup and disposal in accordance with federal, state, and local regulations.

Well construction logs are provided in Appendix A. A summary of well construction information is provided in Table 2.

2.4.2 Groundwater Sampling

Groundwater samples were collected from each new well and all existing wells at least one week after well development. Prior to groundwater purging and sampling, the depth to water and non-aqueous phase liquid (NAPL), if present, in each monitoring well was measured using an oil/water interface probe and recorded. Groundwater sampling was conducted in accordance with the USEPA Low-Flow/Low-Purge Sampling Protocol (USEPA, 1998), with the exception of the bedrock wells, which were sampled using passive diffusion bags. To the extent practicable, groundwater purging rates maintained levels low enough to prevent significant drawdown of the groundwater in the monitoring well. Water levels were monitored during sampling to ensure that excessive drawdown was not occurring. Each groundwater sample was analyzed for TCL VOCs by USEPA Method 8260. One third of the samples were also be analyzed for TCL SVOCs by USEPA Method 8270, TAL metals by USEPA Methods 6010C and 7470A, PCBs by USEPA Method 8082, and pesticides by USEPA Method 8081.

To evaluate geochemical characteristics of the groundwater, and to evaluate the effectiveness of well purging, temperature, pH, oxidation-reduction potential, specific conductivity, turbidity, and dissolved oxygen were measured during purging and immediately prior to groundwater sampling.

Groundwater purge logs are presented in Appendix E.

2.5 Survey

Upon completion of the field investigation activities, the location and elevation of each new groundwater monitoring well installed during the RI was surveyed to the nearest 0.01-foot vertically and 0.1-foot horizontally and was added to a Geographic Information System (GIS) base map for the site. The locations of the subsurface soil samples were also surveyed to the nearest 0.1 foot horizontally and added to the GIS base map.

2.6 Investigation-Derived Waste

Investigation-derived wastes were handled in accordance with the NYSDEC Proposed Decision TAGM Disposal of Contaminated Groundwater Generated During Site Investigations and the Final TAGM – Disposal of Drill Cuttings. Soil and groundwater

were contained in UN-approved 55-gallon drums and staged at a central location at the site for pickup and disposal as a F002 hazardous waste in accordance with federal, state, and local regulations. Waste disposal manifests are provided in Appendix F.

3. Data Validation

In accordance with the Work Plan, data validation was performed for the samples collected during the RI to ensure that the data generated provide sufficient information to achieve the project objectives. The Data Usability Summary Reports are included in Appendix G. Sample processing was generally conducted in compliance with the analytical protocol requirements and quality criteria. All data were classified as usable with some minor qualification.

Additional discussion is provided in the DUSR narratives in Appendix G.

4. Soil IRM

Excavation began based on the area of soil known to be impacted by CVOCs based on Phase II ESA and RI soil boring and sampling. Soil removed from the upper five feet of the excavation area was screened with a PID and, if the soil displayed no signs of contamination, it was staged away from the excavation on 6 millimeter (mil) polyethylene sheeting to be used as backfill along with concrete from building slabs and foundations. No liquids were removed from the excavation during the IRM.

The excavation was visually inspected for stained soils, which, if present, were excavated with further side-wall screening using a PID until indications of CVOCs were no longer present in the soil, or the excavation walls reached the edge of the site property and/or adjacent sidewalks. No sheens or staining were observed during excavation activities. The vertical extent of the excavation was defined by the presence of CVOC-impacted soil as indicated by PID screening, which was approximately 10 feet bgs for the western portion of the excavation and approximately 14 feet bgs in the eastern portion of the excavation. The horizontal extent of the excavation was defined to the north, south, and west by the sidewall screening, while the eastern extent of the excavation was defined by the Willow Street sidewalk.

With the exception of the final (approximately 22 ton) load which was temporarily staged in a roll-off container, the soil removed from below five feet bgs was placed directly in dump trucks for immediate transport to the disposal facility. Soils that were stockpiled at the site for reuse as backfill were placed on, and covered with, 6 mil polyethylene

sheeting. After the removal of the CVOC-impacted soils, the soils from the side-walls of the excavation were screened visually and with a PID. Confirmation sampling was conducted to verify that the NYCRR Part 375 Residential Soil Cleanup Objectives (RSCOs) were achieved. Confirmation samples were also used to characterize CVOC-impacted soil that was left in the ground due to proximity to adjacent streets, sidewalks, and utilities. Soil samples were collected by the on-site geologist with the assistance of the contractor, in accordance with DER-10 and in consultation with the on-site NYSDEC representative.

Bottom and sidewall confirmation samples collected from the western half of the excavation were sent to the analytical laboratory and analyzed for TCL VOCs by USEPA Method 8260 under an expedited turnaround time, while samples from the eastern half of the excavation were analyzed under standard turnaround time, as predetermined excavation extents had been reached. The locations of all confirmation samples collected during the Soil IRM and the final extent of the excavation are shown on Figure 4. Analytical data for all confirmation samples are included in Appendix H and summarized in Table 3 and on Figure 4. Excavated soil was transported to the Clean Harbors Environmental Services Lambton, Ontario facility for disposal in accordance with applicable federal, state, and local regulations. Waste disposal manifests are provided in Appendix F.

Upon receipt of the analytical results for confirmation samples and/or reaching predetermined excavation limits, the excavation was backfilled with clean soil removed during the excavation and clean off-site backfill material, graded and compacted. The excavation progressed from west to east, removing CVOC-impacted soil, collecting confirmation samples, and backfilling to keep the size of open excavation, and associated risk to the public, as small as possible. With the approval of the on-site NYSDEC representative, the excavation was terminated at the depths shown on Figure 4 based on field screening results, which indicated that the majority of CVOC-impacted soil had been removed. However, based on subsequent laboratory results CVOC-impacted soil was left in place along the eastern sidewall (due to the adjacent Willow Street sidewalk), and the east-central excavation bottom. Confirmation samples which characterize the material left in place include CS-B3 and CS-E1, which contain PCE at concentrations greater than the corresponding RSCOs. None of the other confirmation samples contained CVOCs at concentrations greater than corresponding RSCOs.

The total amount of CVOC-impacted soil removed from the site during the Soil IRM activities was approximately 196 tons. Scale tickets from the landfill documenting disposal of the CVOC-impacted soil are included in Appendix I.

Backfill material used during the excavation consisted of the excavated soil from the 0 to 5 foot depth interval, approximately 268 tons of bankrun sand and gravel, 46 tons of Item 4 gravel, and 22 tons of crusher run gravel from the Warren W. Fane, Inc. facility in Troy, New York. Analytical data for the material are included in Appendix H. Scale tickets from the facility are included in Appendix J. The difference between the amount of material removed from the excavation and the amount of backfill used is largely due to the abundant void space that was present within the building materials excavated while backfill materials were compacted using a mechanical tamper. Additionally, the majority of the gravel and crusher run gravel were used for final surface preparation and grading only.

5. Nature and Extent of Contaminants

5.1 Field Observations

The ground surface over the majority of the site was composed largely of gravel with minor asphalt paved areas, and was generally free of debris. The site is flat with the exception of the rear approximately one-quarter of the parcel which slopes upward to a retaining wall up to five feet above the elevation of the remainder of the parcel. As shown in the soil boring logs, overburden materials observed during the investigation were generally composed of fill material overlying clay and silt. Locally, a glacial till unit is present below the silt and clay. Based on observations during the RI, bedrock in the study area is generally present at approximately 30 feet bgs based on off-site bedrock wells, however, onsite drilling up to 50 feet bgs did not encounter bedrock. Rock quality designations (RQDs) calculated from the coring of MW-10B were 58 and 27 percent, but are considered biased low due to poor overall core recovery. Neither visual nor olfactory evidence of contamination was noted in the soil borings or monitoring well boreholes drilled during the investigation. No sheens or staining were observed during groundwater monitoring well installation and no sheens were observed during well development or groundwater sampling. Tracer gas testing using helium was conducted at all new soil vapor monitoring points and sub-slab sampling locations before sampling, which confirmed the integrity of the bentonite seal at each point.

5.2 Groundwater Flow

As shown on Figure 5, overburden groundwater flow in the vicinity of the site is generally to the north. The hydraulic gradient for overburden measured during the investigation was approximately 0.08. Groundwater elevation measurements are provided in Table 4.

5.3 SSDS System Checks

Inspections of the existing SSDSs at 9 and 17 Willow Street were conducted on December 19, 2012 and January 28, 2013, respectively. Consistent with previous system measurements, the total system vacuum pressure as measured by the micro-manometer on the extraction point was approximately 0.1 inches of water at 9 Willow Street. The system at 17 Willow Street was found to be inoperable. The fan was subsequently replaced on February 14, 2013 and the system restarted. The SSDSs were inspected again on August 12, 2013 at which time the system vacuum pressure at 9 Willow Street was approximately 0.1 inches of water and the system at 17 Willow Street was inoperable. The fan was replaced again on August 16, 2013; however, electrical power

was not being delivered to the system. National Grid confirmed that power to the system had been shut off in August 2013. Additional information as to the status of the electrical service was unavailable.

5.4 Laboratory Results

Laboratory results for samples collected during the RI are summarized in Tables 5 through 7 (soil samples), Tables 8 through 10 (groundwater samples), and Table 11 (air and soil vapor samples). These tables also include previous sampling results from the 2009/2010 Phase II ESA investigation. Graphical depictions of analytical results are provided on Figures 6 (soil CVOCs), 7 (overburden groundwater CVOCs), and 8 (sub-slab soil vapor and indoor air). These figures show detected analytes at each location and highlight those contaminants and their concentrations which exceed the applicable 6 NYCRR Part 375 SCOs, NYSDEC Class GA Groundwater Standards, or NYSDOH Guidance values. Analytical laboratory reporting forms for samples collected during the investigation are provided in Appendix H.

5.4.1 Subsurface Soil

5.4.1.1 VOCs

As shown in Table 5 and on Figure 6, PCE, TCE, cis-1,2-dichloroethene, trans-1,2-dichloroethene, and vinyl chloride were the most frequently detected compounds in soil samples collected during the RI. At least one of these compounds was detected at each soil boring location. Sample SB-12 (8'-9') contained PCE at a concentration greater than the corresponding 6 NYCRR Part 375 Residential SCO and TCE and cis-1,2-dichloroethene at concentrations greater than the corresponding Part 375 Unrestricted Use SCOs. Samples SB-13 (9'-10') and SB-13 (10'-11') both contained PCE at concentrations greater than the corresponding 6 NYCRR Part 375 Unrestricted Use SCO. None of the remaining soil samples collected during the RI contained VOCs at concentrations greater than the corresponding 6 NYCRR Part 375 Unrestricted Use or Residential SCOs.

5.4.1.2 SVOCs

As shown in Table 5, none of the samples collected during the RI contained SVOCs at concentrations greater than the corresponding 6 NYCRR Part 375 Unrestricted Use or Residential SCOs.

5.4.1.3 Metals

As shown in Table 6, three of the soil samples collected during the RI, SB-15 (5'-6'), SB-18 (6'-7'), and SB-19 (7'-8') contained copper at concentrations greater than the corresponding 6 NYCRR Part 375 Unrestricted Use SCO. None of the remaining soil samples collected during the RI contained metals at concentrations greater than the corresponding 6 NYCRR Part 375 Unrestricted Use or Residential SCOs.

5.4.1.4 Pesticides and PCBs

As shown in Table 7, none of the soil samples collected during the RI contained pesticides or PCBs at concentrations greater than the corresponding 6 NYCRR Part 375 Unrestricted Use or Residential SCOs.

5.4.2 Groundwater

5.4.2.1 VOCs

Table 8 and Figure 7 show that PCE, TCE, cis-1,2-dichloroethene, trans-1,2-dichloroethene, and vinyl chloride were the most frequently detected compounds in groundwater samples collected during the RI. At least one of these compounds was detected in each groundwater sample except those from MW-4, MW-5, MW-10B, and MW-11B. However, PCE was the predominant VOC detected in the groundwater samples. Prior to the IRM, PCE was present at concentrations up to four orders of magnitude greater than the corresponding NYSDEC Class GA Standard within the suspected source area (MW-7). Following IRM source removal activities, PCE was no longer detected in samples from source area wells MW-7R and MW-6R. However, concentrations of daughter products cis-1,2-dichloroethene and vinyl chloride increased in the samples from these wells.

5.4.2.2 SVOCs

As shown in Table 8, none of the groundwater samples collected during the RI contained SVOCs at concentrations greater than the corresponding NYSDEC Class GA Groundwater Standards.

5.4.2.3 Metals

As shown in Table 9, none of the groundwater samples collected during the RI contained metals at concentrations greater than the corresponding NYSDEC Class GA Groundwater Standards

5.4.2.4 Pesticides and PCBs

As shown in Table 10, none of the groundwater samples collected during the RI contained pesticides or PCBs at concentrations greater than the corresponding NYSDEC Class GA Groundwater Standards.

5.4.3 Soil Vapor and Indoor Air

Table 11 summarizes the analytical results for soil vapor samples collected during the RI and those collected during the 2009/2010 Phase II ESA for comparison. The analytical results are also summarized on Figure 8.

5.4.3.1 Sewer Line Soil Vapor

As shown in Table 11 and on Figure 8, PCE was detected at concentrations up to six micrograms per cubic meter ($\mu g/m^3$) in the new soil vapor points at the northern and southern ends of the study area.

5.4.3.2 8 Willow Street

As shown in Table 11 and on Figure 8, PCE and carbon tetrachloride were detected in 2012-2013 heating season samples from 8 Willow Street. However, the concentrations of these compounds did not exceed the NYSDOH mitigation guidance values.

6. Remedial Investigation Summary

6.1 Remedial Investigation

Unsaturated subsurface soil at, and in the vicinity of, the site does not appear to be negatively impacted by site-related COCs. CVOC-impacted soil at and below the water table was removed from the site during the Soil IRM. Isolated areas near the periphery of the Soil IRM area and beneath the sidewalk adjacent to the site contain PCE at concentrations greater than the corresponding 6 NYCRR Part 375 Unrestricted Use SCO; however, these soils are present at depths greater than approximately 10 feet bgs.

Additionally, soil containing PCE at concentrations greater than the corresponding 6 NYCRR Part 375 Residential SCO was left in place adjacent to the sidewalk at the east-central bottom of the Soil IRM excavation. PCE was present in groundwater samples collected from seven overburden wells during the investigation with daughter products TCE, cis-1,2-dichloroethene, and vinyl chloride increasing following IRM source removal. TCE was estimated at a concentration less than the NYSDEC Class GA Standard in the deep overburden well in the source area. CVOCs were not detected in the bedrock wells installed during the RI. The extent of CVOC groundwater impacts extends northward from the site parallel to Willow Street and is generally bounded to the east and west with a maximum width of approximately 50 feet and maximum known length of approximately 150 feet. Overburden groundwater contamination extends northward from the site beneath the residential building at 9 Willow Street, causing indoor air impacts to this building which have been mitigated by a SSDS. Soil vapor intrusion has also been documented and mitigated in 17 Willow Street, although vapor migration into this structure is more likely via sewer line bedding materials.

6.2 Conceptual Site Model

With the conclusion of RI sampling and IRM activities, the current Conceptual Site Model is as follows:

Previous investigations indicated that the source of the groundwater and soil vapor contamination at, and in the vicinity of, the site, was located in the northeast corner of the site near the former building's sewer connection. Additional contaminant delineation and sampling efforts during the RI guided an IRM to remove source area soil from this area. Field screening and confirmation soil sampling indicate that the conceptual model of CVOC introduction to the environment via the sewer line bedding was confirmed. The majority of CVOC-impacted soil was removed from the source area during the IRM, although minor areas of CVOC-impacted soil were left in place. CVOC-impacted groundwater remains at the site, although concentrations have decreased following IRM source removal. The appearance of CVOC daughter products in groundwater samples suggests that natural degradation is likely occurring at the site. Groundwater flow in the vicinity of the site is generally to the north.

The thickness of overburden and/or fill materials in the vicinity of the site is generally between 20 and 30 feet, although a thicker overburden sequence (greater than 50 feet) is present in the source area. Overburden materials overly competent bedrock comprised of what is likely the Normanskill Shale formation. Locally, a glacial till unit is present between the competent bedrock and overlying silt and clay. Unsaturated soil, fill

materials, and building debris at the site appeared to be un-impacted by site-related contaminants. With source area soil removal completed it is expected that overburden groundwater and soil vapor intrusion impacts will diminish with time.

6.3 Conclusions

- The source of contamination has been identified and mitigated to the extent practicable through soil IRM activities;
- Soil vapor intrusion impacts have been evaluated and mitigated where necessary.
- Groundwater impacts are limited to overburden and the horizontal extent has been defined.
- Daughter products in most recent groundwater samples suggest that remaining CVOCs in groundwater will be mitigated through natural attenuation now that the source has been removed.

6. References

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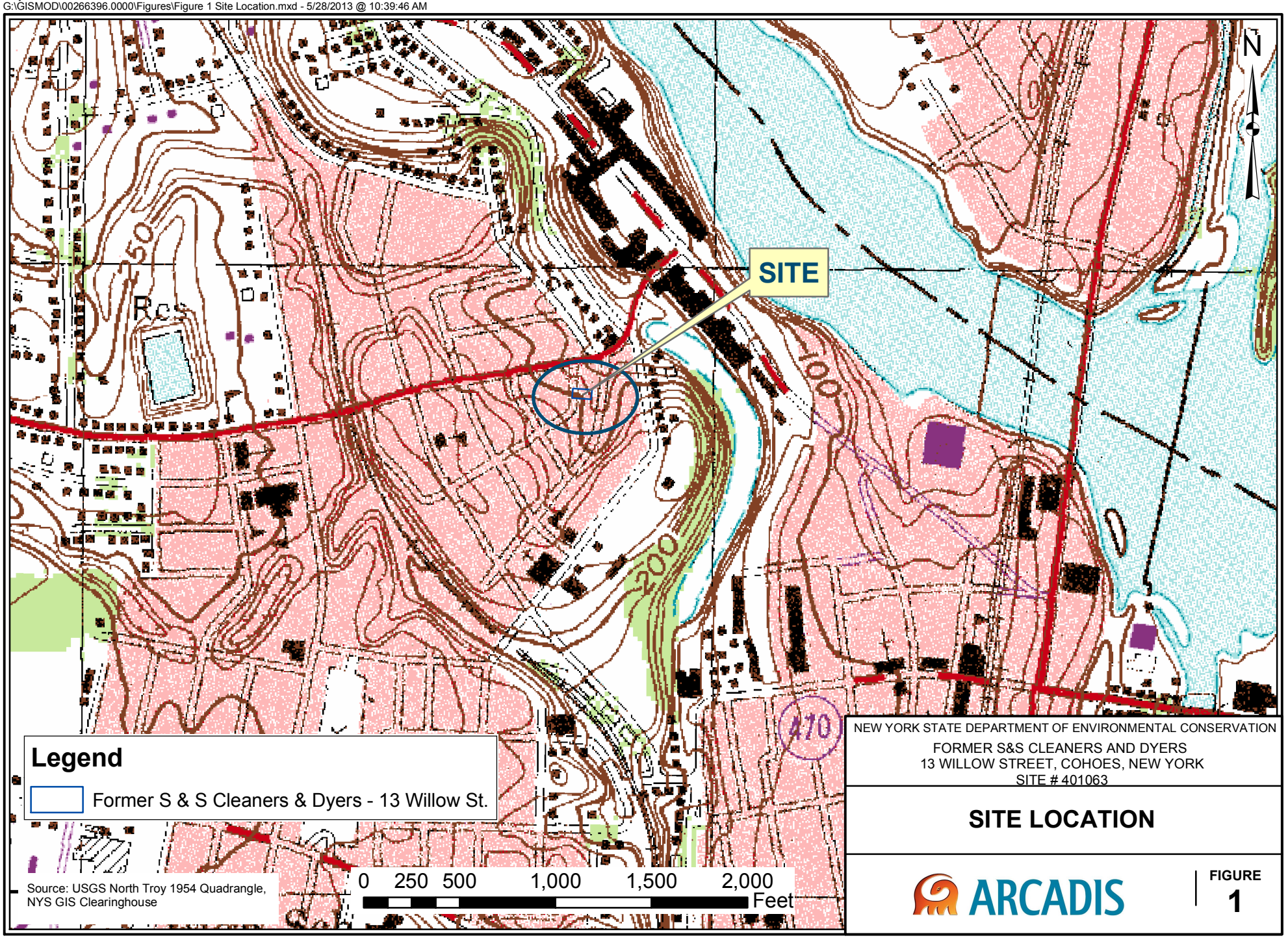
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ARCADIS

Figures

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NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

FORMER S&S CLEANERS AND DYERS
13 WILLOW STREET, COHOES, NEW YORK
SITE # 401063

SITE LOCATION

ARCADIS

FIGURE
1

Project 00266396.0000
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NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

FORMER S&S CLEANERS AND DYERS
13 WILLOW STREET, COHOES, NEW YORK
SITE # 401063

AERIAL PHOTOGRAPH

ARCADIS

FIGURE
2



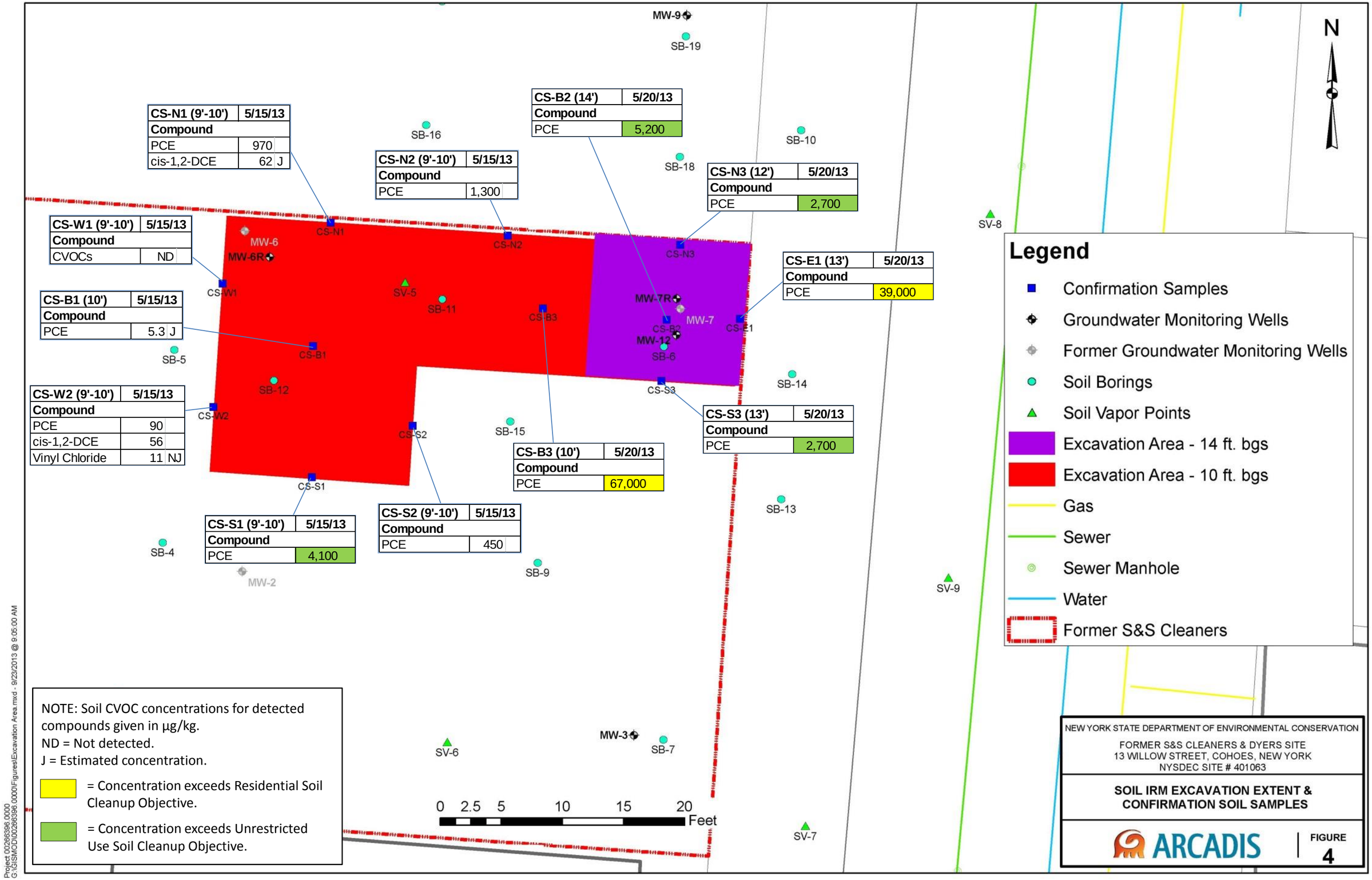
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NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
FORMER S&S CLEANERS & DYERS SITE
13 WILLOW STREET, COHOES, NEW YORK
NYSDEC SITE # 401063

SAMPLING LOCATIONS

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Infrastructure · Water · Environment · Buildings

FIGURE
3


MW-9
SB-19
SB-16
SB-10
SB-18
SV-8
N
CS-N1 (9'-10') 5/15/13
Compound
PCE 970
cis-1,2-DCE 62 J
CS-B2 (14') 5/20/13
Compound
PCE 5,200
CS-N2 (9'-10') 5/15/13
Compound
PCE 1,300
CS-N3 (12') 5/20/13
Compound
PCE 2,700
CS-W1 (9'-10') 5/15/13
Compound
CVOCs ND
CS-E1 (13') 5/20/13
Compound
PCE 39,000
CS-B1 (10') 5/15/13
Compound
PCE 5.3 J
CS-W2 (9'-10') 5/15/13
Compound
PCE 90
cis-1,2-DCE 56
Vinyl Chloride 11 NJ
CS-B3 (10') 5/20/13
Compound
PCE 67,000
CS-S3 (13') 5/20/13
Compound
PCE 2,700
CS-S1 (9'-10') 5/15/13
Compound
PCE 4,100
CS-S2 (9'-10') 5/15/13
Compound
PCE 450
MW-6
MW-6R
MW-7R
MW-7
MW-12
MW-2
MW-3
CS-N1
CS-N2
CS-N3
CS-W1
CS-E1
CS-B1
CS-B2
CS-B3
CS-W2
CS-S1
CS-S2
CS-S3
SV-5
SB-11
SB-5
SB-12
SB-6
SB-14
SB-15
SB-13
SB-4
SB-9
SV-9
SV-6
SB-7
SV-7
0 2.5 5 10 15 20 Feet
Legend
Confirmation Samples
Groundwater Monitoring Wells
Former Groundwater Monitoring Wells
Soil Borings
Soil Vapor Points
Excavation Area - 14 ft. bgs
Excavation Area - 10 ft. bgs
Gas
Sewer
Sewer Manhole
Water
Former S&S Cleaners
NOTE: Soil CVOC concentrations for detected compounds given in µg/kg.
ND = Not detected.
J = Estimated concentration.
= Concentration exceeds Residential Soil Cleanup Objective.
= Concentration exceeds Unrestricted Use Soil Cleanup Objective.
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
FORMER S&S CLEANERS & DYERS SITE
13 WILLOW STREET, COHOES, NEW YORK
NYSDEC SITE # 401063
SOIL IRM EXCAVATION EXTENT & CONFIRMATION SOIL SAMPLES
ARCADIS
FIGURE 4
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N

MW-10B
MW-11B
MW-8
174.40
175
SV-15
176
177
SV-14
177.38
MW-5
178
9W-BA
9 Willow St.
9W-SS
8W-BA
8W-SS
8 Willow St.
179
SV-1
178.99
MW-9
SB-17
SB-19
180
SB-16
SB-18
SB-10
181
181.62
MW-6R
SB-11
181.51
MW-7R
MW-12
SV-5
SV-8
182
13W-AA, 13W-AA2
MW-1
183.76
SB-1
SB-5
SB-12
SB-6
SB-14
SB-15
183
183.47
MW-4
SB-13
SB-8
183
SB-4
SB-9
SV-9
SB-2
SB-3
182.22
MW-3
SV-6
SB-7
SV-4
SV-7
17W-BA
17W-IA
17 Willow St.
SV-10
SV-3
19W-BA
19W-SS
19/21 Willow St.
21W-BA
SV-13
SV-12

Legend

- Soil Borings
- Soil Vapor Points
- Groundwater Monitoring Wells
- Former Groundwater Monitoring Wells
- VI Evaluation
- Indoor Air Samples
- Outdoor Air Samples
- Sub-Slab Vapor Samples
- IRM Excavation Area - 14 ft bgs
- IRM Excavation Area - 10 ft bgs
- Gas
- Sewer
- Sewer Manhole
- Water
- Target Property
- City Owned Property

0 10 20 40 60 80 Feet

184.17 Groundwater elevation (ft. amsl)

180 Potentiometric contour

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NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
FORMER S&S CLEANERS & DYERS SITE
13 WILLOW STREET, COHOES, NEW YORK
NYSDEC SITE # 401063

POTENTIOMETRIC CONTOUR MAP
OVERBURDEN (8/28/13)

ARCADIS
Infrastructure · Water · Environment · Buildings

FIGURE
5

SB-17	12/20/12				
	Depth (ft.)				
Compound	1'-2'	5'-6'	6'-7'	7'-8'	8'-9'
PCE	ND	3.8 J	ND	ND	1.6 J

MW-8 (9'-10')	5/17/10
Compound	
PCE	2.8 J
TCE	8.3
cis-1,2-DCE	2 J

SB-19	12/20/12		
	Depth (ft.)		
Compound	2'-3'	7'-8'	9'-10'
PCE	2.4 J	ND	ND

SB-16	12/20/12				
	Depth (ft.)				
Compound	5'-6'	6'-7'	8'-9'	9'-10'	10'-11'
PCE	3.1 J	9.2	350	180	94
TCE	ND	ND	6.7 J	3.7 J	2 J

SB-18	12/20/12			
	Depth (ft.)			
Compound	1'-2'	6'-7'	8'-9'	11'-12'
PCE	ND	4.9 J	140	38 J

SB-10 (8'-9')	5/18/10
Compound	
PCE	150 J
TCE	300.0 J
cis-1,2-DCE	110
trans-1,2-DCE	28

SB-11	5/18/10	
	Depth (ft.)	
Compound	7'-8'	9'-10'
PCE	84,000 D	2,500 DJ
TCE	330 J	ND
cis-1,2-DCE	ND	2.1 J

MW-7	5/17/10	
	Depth (ft.)	
Compound	7'-8'	9'-10'
PCE	560,000 D	1,300,000 D
TCE	1,200 J	51 J
cis-1,2-DCE	210	57 J
trans-1,2-DCE	6 J	ND
1,1-DCE	89	10 J

MW-6 (13'-14')	5/17/10
CVOCs	ND

SB-5 (9'-10')	2/9/09
Compound	
PCE	11 J

SB-6 (14'-15')	2/9/09
Compound	
PCE	930 J

SB-1 (10'-12')	2/9/09
CVOCs	ND

SB-14	12/19/12				
	Depth (ft.)				
Compound	0-1'	2'-3'	5'-6'	7'-8'	8'-9'
PCE	13	43.0	48	1.7 J	ND
TCE	ND	ND	9.4	1.7 J	ND
cis-1,2-DCE	ND	ND	28	240	96
trans-1,2-DCE	ND	ND	1.3 J	10	ND
Vinyl Chloride	ND	ND	ND	3.9 J	ND

SB-8 (14'-15')	5/17/10
Compound	
cis-1,2-DCE	6 J

SB-2 (15'-17')	2/9/09
CVOCs	ND

SB-3 (14'-15')	2/9/09
CVOCs	ND

SB-13	12/19/12				
	Depth (ft.)				
Compound	5'-6'	7'-8'	8'-9'	9'-10'	10'-11'
PCE	29	6.8 J	ND	2,500 DJ	2,800 DJ
TCE	ND	4.7 J	2.1 J	46	73 J
cis-1,2-DCE	ND	29	150	8.7	3.9 J
trans-1,2-DCE	ND	ND	3.7 J	ND	ND
Vinyl Chloride	ND	ND	5.4 J	ND	ND

SB-12	12/19/12			
	Depth (ft.)			
Compound	6'-7'	8'-9'	9'-10'	10'-11'
PCE	260	98,000 DJ	48	1.7 J
TCE	6 J	6,000 D	1.6 J	ND
cis-1,2-DCE	13	5,700 D	ND	ND
trans-1,2-DCE	ND	6 J	ND	ND
Vinyl Chloride	ND	21	ND	ND

SB-4 (9'-10')	2/9/09
Compound	
PCE	710 J
TCE	31
cis-1,2-DCE	100
trans-1,2-DCE	4 J
Vinyl Chloride	15

SB-15	12/20/12		
	Depth (ft.)		
Compound	5'-6'	7'-8'	9'-10'
PCE	18	ND	ND

SB-9 (9'-10')	5/17/10
Compound	
PCE	13

SB-7 (9'-10')	2/9/09
Compound	
cis-1,2-DCE	6 J

NOTE: Soil CVOC concentrations for detected compounds given in µg/kg.
ND = Not detected.
J = Estimated concentration.

= Concentration exceeds Residential Soil Cleanup Objective.

= Concentration exceeds Unrestricted Use Soil Cleanup Objective.

Legend

- Soil Borings
- Soil Vapor Points
- Groundwater Monitoring Wells
- Former Groundwater Monitoring Wells
- VI Evaluation
- Indoor Air Samples
- Outdoor Air Samples
- Sub-Slab Vapor Samples
- IRM Excavation Area - 14 ft bgs
- IRM Excavation Area - 10 ft bgs
- Gas
- Sewer
- Sewer Manhole
- Water
- Target Property
- City Owned Property

0 10 20 40 60 80 Feet

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
FORMER S&S CLEANERS & DYERS SITE
13 WILLOW STREET, COHOES, NEW YORK
NYSDEC SITE # 401063

SUMMARY OF CHLORINATED VOLATILE ORGANIC COMPOUND ANALYTICAL RESULTS - SOIL

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FIGURE 6

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MW-10B		
Compound	9/18/13	11/11/13
CVOCs	ND	ND

MW-11B		
Compound	9/18/13	11/13/13
CVOCs	ND	ND

MW-8					
Compound	5/27/10	11/15/10	10/1/12	10/1/12 Dup	11/13/13
PCE	7	ND	ND	ND	ND
TCE	14	ND	ND	ND	ND
cis-1,2-DCE	5	2.4	ND	0.51 J	1.2
trans-1,2-DCE	1	ND	ND	ND	ND

MW-9		
Compound	12/27/12	11/12/13
PCE	8.6	5.4
TCE	4.2	6.3

MW-5				
CVOCs	3/9/09	11/18/09	10/2/12	11/12/13
	ND	ND	ND	ND

MW-6/6R				
Compound	5/27/10	11/15/10	10/1/12	11/11/13
PCE	ND	1.2 J	0.81 J	ND
TCE	ND	ND	ND	1.2
cis-1,2-DCE	ND	ND	ND	76
Vinyl Chloride	ND	ND	ND	18

MW-7/7R					
Compound	5/27/10	5/27/10 Dup	11/15/10	10/4/12	11/11/13
PCE	51,000 D	58,000 D	130,000 DJ	45,000	ND
TCE	210 D	200 D	230 D	120 J	1.1
1,1-DCE	7 J	7 J	11	4.6 J	ND
cis-1,2-DCE	56 J	57 J	100 D	110 J	620 D
trans-1,2-DCE	1 J	1 J	1.6	1.1 J	1.9
Vinyl Chloride	3	3	8	7.8 J	110
Chlorobenzene	6.2 J	5.9 J	9.7	4.1 J	ND
1,2-Dichloropropane	2 J	3 J	3.8	ND	ND

MW-1				
Compound	3/9/09	11/18/09	10/1/12	11/11/13
PCE	ND	ND	0.93 J	1.4

MW-12		
Compound	8/28/13	11/11/13
TCE	0.89 J	ND
cis-1,2-DCE	ND	1.3

MW-4				
CVOCs	3/9/09	11/18/09	12/19/12	11/11/13
	ND	ND	ND	ND

MW-2					
Compound	3/9/09	3/9/09 Dup	11/18/09	11/18/09 Dup	10/1/12
PCE	18	14	17	25	8.1

MW-3				
Compound	3/9/09	11/18/09	10/1/12	11/11/13
PCE	ND	ND	ND	7.1

NOTE: Groundwater CVOC concentrations for detected compounds given in µg/L.
ND = Not detected.
J = Estimated concentration.

= Concentration exceeds corresponding NYSDEC Class GA Standard.

Legend

- Soil Borings
- Soil Vapor Points
- Groundwater Monitoring Wells
- Former Groundwater Monitoring Wells
- VI Evaluation
- Indoor Air Samples
- Outdoor Air Samples
- Sub-Slab Vapor Samples
- IRM Excavation Area - 14 ft bgs
- IRM Excavation Area - 10 ft bgs
- Gas
- Sewer
- Sewer Manhole
- Water
- Target Property
- City Owned Property

0 10 20 40 60 80 Feet

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
FORMER S&S CLEANERS & DYERS SITE
13 WILLOW STREET, COHOES, NEW YORK
NYSDEC SITE # 401063

SUMMARY OF CHLORINATED VOLATILE ORGANIC COMPOUND ANALYTICAL RESULTS - GROUNDWATER

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FIGURE 7

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Ambient Air	2/16/09	11/18/09	11/18/09	5/26/10	10/5/2012	1/9/2013
Compound						
PCE	ND	0.51	2.2	2	ND	ND
Carbon Tetrachloride	ND	0.45	0.44	0.45	ND	0.42

SV-15	1/9/13
Compound	
PCE	3

SV-2	10/5/2012
Compound	
PCE	2

8 Willow St.	Sub-slab Vapor	Basement Air
Compound	1/9/13	1/9/13
PCE	11	1
Carbon Tetrachloride	ND	0.44

9 Willow St.	Sub-slab Vapor	Basement Air
Compound	11/18/09	11/18/09
PCE	160	16
TCE	0.23	0.46
Carbon Tetrachloride	0.39	0.42
1,1,1-TCA	0.31	ND

SV-5	2/16/09
Compound	
PCE	790 J
TCE	21 J
cis-1,2-DCE	10 J

SV-1	2/16/09	5/26/10	10/5/2012
Compound			
PCE	3.2	23	120,000
cis-1,2-DCE	ND	ND	72
1,1,1-TCA	ND	ND	120

SV-6	2/16/09	10/5/2012
Compound		
PCE	14,000	11,000
TCE	370	230
cis-1,2-DCE	220	72
trans-1,2-DCE	3.9	ND

SV-8	5/26/10
Compound	
PCE	140,000
TCE	1,200
1,1,1-TCA	190
cis-1,2-DCE	58

SV-9	5/26/10	10/5/2012
Compound		
PCE	64,000	57,000
TCE	1,700	1,600
cis-1,2-DCE	370	250
1,1,1-TCA	9.9	13

SV-4	3/17/09
CVOCs	ND

17 Willow St.	Basement Air	1st Floor Air
Compound	11/18/09	11/18/09
PCE	77	37
TCE	1.6	0.85
cis-1,2-DCE	0.91	0.43
Carbon Tetrachloride	0.39	0.41

SV-7	3/17/09	10/5/2012	10/5/2012 DUP
Compound			
PCE	7.9 J	210	23
TCE	1 J	2.3	ND
cis-1,2-DCE	ND	72	ND

19 Willow St.	Sub-slab Vapor	Basement Air	
Compound	5/26/10	5/26/10	11/15/10
PCE	430	5	2
TCE	5.1	ND	1.4
Carbon Tetrachloride	ND	0.5	0.46

SV-3	3/17/09
CVOCs	ND

SV-10	5/26/10	10/5/2012
Compound		
PCE	32	20
1,2-DCA	0.54	ND
1,1,1-TCA	0.6	0.69

21 Willow St.	Basement Air
Compound	5/26/10
PCE	4
1,1-DCA	0.14

SV-13	1/9/13
Compound	
PCE	6

SV-12	1/9/13
Compound	
PCE	1

NOTE: Soil vapor and indoor air CVOC concentrations for detected compounds given in µg/m³.
ND = Not detected.
J = Estimated concentration.

= Mitigation required based on NYSDOH Guidance.

= Mitigation potentially required based on NYSDOH Guidance.

Legend

- Soil Borings
- Soil Vapor Points
- Groundwater Monitoring Wells
- Former Groundwater Monitoring Wells
- VI Evaluation
- Indoor Air Samples
- Outdoor Air Samples
- Sub-Slab Vapor Samples
- IRM Excavation Area - 14 ft bgs
- IRM Excavation Area - 10 ft bgs
- Gas
- Sewer
- Sewer Manhole
- Water
- Target Property
- City Owned Property

0 10 20 40 60 80 Feet

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
FORMER S&S CLEANERS & DYERS SITE
13 WILLOW STREET, COHOES, NEW YORK
NYSDEC SITE # 401063

SUMMARY OF CHLORINATED VOLATILE ORGANIC COMPOUND ANALYTICAL RESULTS – SOIL VAPOR & INDOOR AIR

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FIGURE 8

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ARCADIS

Tables

TABLE 1
SUMMARY OF IRM COSTS
FORMER S & S CLEANERS AND DYERS SITE
SITE #401063
COHOES, NEW YORK

ITEM	BID ITEM DESCRIPTION	UNIT COST	QUANTITY	UNITS	TOTAL COST
1	Excavation & Stockpiling of Non-Contaminated Soil and/or Debris	$25	100	cubic yards	$2,494
2	Excavation, Loading, Transportation, & Disposal of Contaminated Soil and/or Debris	$250	150	tons	$37,500
3	Loading, Transport, & Disposal of Liquids and Sludges	$2	1000	gallons	$2,000
4	Reuse of Non-Contaminated on-site soil for Backfill including Placement & Compaction	$35	100	cubic yards	$3,500
5	Removal and Repair/Replacement of Chain-Link Fence along Property Line (if needed)	$3,895	1	lump sum	$3,895
6	Provide off-site Backfill, including Placement & Compaction	$39	150	tons	$5,921
7	Pollution Liability Insurance	$0	1	lump sum	$0
				Subtotal	**$55,310**
	State and Local Sales Tax	8%		*%*	$4,425
				Base Bid Total	**$59,735**
CO-1	Up Charge for Excavation, Loading, Transportation, & Disposal of Contaminated Soil and/or Debris	$189	150	tons	$28,350
CO-2	Use of roll off container to stage excavated soil	$425	2	each	$850
	Additional Soil Excavation	$440	46	tons	$20,240
	Additional Backfill	$39	186	tons	$7,341
				Subtotal	**$56,781**
	State and Local Sales Tax	8%		*%*	$4,543
				Change Order Total	**$61,324**
				Soil IRM TOTAL	**$119,059**

TABLE 2
SUMMARY OF WELL CONSTRUCTION INFORMATION
FORMER S&S CLEANERS AND DYERS SITE
SITE # 401063
13 WILLOW STREET
COHOES, NEW YORK

Well	Measuring Point Elevation (ft. AMSL)	Ground Elevation (ft. AMSL)	Date of Installation	Well Diameter (inches)	Well Material	Total Depth of Well/ Length of Casing Below TOC (ft.)	Screen Slot Size	Length of Screen (feet)	Screened/Open Interval (ft. below TOC)
MW-1	191.34	191.67	3/5/09	2	PVC	20	10	10	10 - 20
MW-2	188.9	191.34	3/5/09	2	PVC	20	10	10	10 - 20
MW-3	188.78	189.13	3/5/09	2	PVC	20	10	10	10 - 20
MW-4	189.35	189.78	3/5/09	2	PVC	18.3	10	10	8.3 - 18.3
MW-5	184.52	184.67	3/5/09	2	PVC	18.3	10	10	8.3 - 18.3
MW-6	187.36	187.49	5/19/10	2	PVC	23.8	10	10	13.8 - 23.8
MW-6R	187.81	187.91	8/6/13	2	PVC	20.0	10	10	10 - 20
MW-7	186.76	187.24	5/19/10	2	PVC	20	10	10	10 - 20
MW-7R	187.32	187.43	8/6/13	2	PVC	20	10	10	10 - 20
MW-8	182.59	183.01	5/18/10	2	PVC	20	10	10	10 - 20
MW-9	186.07	186.52	12/20/12	1	PVC	20	10	10	10 - 20
MW-10B	185.43	185.58	8/15/13	4	PVC	43.5	Open Bedrock	NA	34 - 43.5
MW-11B	182.79	182.99	8/15/13	4	PVC	42	Open Bedrock	NA	32 - 42
MW-12	487.39	187.49	8/12/13	2	PVC	50	10	10	40 - 50

Elevations based on NAVD 88 datum.

TABLE 3
SUMMARY OF SOIL IRM CONFIRMATION SAMPLING RESULTS (VOCs)
REMEDIAL INVESTIGATION
FORMER S&S CLEANERS AND DYERS SITE
SITE # 401063
13 WILLOW STREET, COHOES, NEW YORK

Sample/Boring ID Sample Depth (feet) Sampling Date Matrix Units	6 NYCRR Part 375 Unrestricted Use Soil Cleanup Objective µg/kg	6 NYCRR Part 375 Residential Soil Cleanup Objective µg/kg	CS-W1 9-10 5/15/13 SOIL µg/kg	CS-W2 9-10 5/15/13 SOIL µg/kg	CS-S1 9-10 5/15/13 SOIL µg/kg	CS-S2 9-10 5/15/13 SOIL µg/kg	CS-N1 9-10 5/15/13 SOIL µg/kg	CS-N2 9-10 5/15/13 SOIL µg/kg
VOCs								
cis-1,2-Dichloroethene	250	59,000	6.6 U	56	400 U	390 U	62 J	400 U
Tetrachloroethene	1,300	5,500	6.6 U	90	4,100	450	970	1,300
Vinyl Chloride	20	210	6.6 U	11 NJ	400 U	390 U	430 U	400 U

Notes

- Concentration exceeds corresponding 6 NYCRR Part 375 Residential Soil Cleanup Objective.

- Concentration exceeds corresponding 6 NYCRR Part 375 Unrestricted Use Soil Cleanup Objective.

U - The compound was not detected at the indicated concentration.

J - The concentration given is an estimated value.

TABLE 3
SUMMARY OF SOIL IRM CONFIRMATION SAMPLING RESULTS (VOCs)
REMEDIAL INVESTIGATION
FORMER S&S CLEANERS AND DYERS SITE
SITE # 401063
13 WILLOW STREET, COHOES, NEW YORK

Sample/Boring ID	6 NYCRR Part 375	6 NYCRR Part 375	CS-B1	CS-N3	CS-S3	CS-E1	CS-B2	CS-B3
Sample Depth (feet)	Unrestricted Use	Residential	10	12	13	13	14	10
Sampling Date	Soil Cleanup	Soil Cleanup	5/15/13	5/20/13	5/20/13	5/20/13	5/20/13	5/20/13
Matrix	Objective	Objective	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Units	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
VOCs								
cis-1,2-Dichloroethene	250	59,000	7.1 UJ	370 U	400 U	2,100 U	310 U	4,100 U
Tetrachloroethene	1,300	5,500	5.3 J	2,700	2,700	39,000	5,200	67,000
Vinyl Chloride	20	210	7.1 UJ	370 U	400 U	2,100 U	310 U	4,100 U

Notes

- Concentration exceeds corresponding 6 NYCRR Part 375 Residential Soil Cleanup Objective.

- Concentration exceeds corresponding 6 NYCRR Part 375 Unrestricted Use Soil Cleanup Objective.

U - The compound was not detected at the indicated concentration.

J - The concentration given is an estimated value.

TABLE 4
SUMMARY OF GROUNDWATER ELEVATIONS
FORMER S&S CLEANERS AND DYERS SITE
SITE # 401063
13 WILLOW STREET
COHOES, NEW YORK

Well	Measuring Point Elevation	Ground Elevation	3/9/2009		4/15/2009		5/20/2010		5/27/2010		11/15/2010	
			DTW	Elevation	DTW	Elevation	DTW	Elevation	DTW	Elevation	DTW	Elevation
		(feet)	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)
MW-1	191.34	191.67	8.62	182.72	8.74	182.60	7.55	183.79	7.46	183.88	7.23	184.11
MW-2	188.9	191.34	10.22	178.68	8.63	180.27	7.19	181.71	6.97	181.93	6.73	182.17
MW-3	188.78	189.13	8.14	180.64	8.22	180.56	7.10	181.68	6.98	181.80	6.58	182.20
MW-4	189.35	189.78	6.75	182.60	5.91	183.44	5.92	183.43	6.19	183.16	5.83	183.52
MW-5	184.52	184.67	12.46	172.06	7.04	177.48	7.12	177.40	7.14	177.38	7.54	176.98
MW-6	187.36	187.49	-	-	-	-	7.84	179.52	6.31	181.05	5.87	181.49
MW-6R	187.81	187.91	-	-	-	-	-	-	-	-	-	-
MW-7	186.76	187.24	-	-	-	-	7.58	179.18	6.26	180.50	6.15	180.61
MW-7R	187.32	187.43	-	-	-	-	-	-	-	-	-	-
MW-8	182.59	183.01	-	-	-	-	8.42	174.17	8.09	174.50	7.79	174.80
MW-9	186.07	186.52	-	-	-	-	-	-	-	-	-	-
MW-10B	185.43	185.58	-	-	-	-	-	-	-	-	-	-
MW-11B	182.79	182.99	-	-	-	-	-	-	-	-	-	-
MW-12	187.39	187.49	-	-	-	-	-	-	-	-	-	-

Elevations based on NAVD 88 datum.
NM - Not measured.

TABLE 4
SUMMARY OF GROUNDWATER ELEVATIC
FORMER S&S CLEANERS AND DYERS SI
SITE # 401063
13 WILLOW STREET
COHOES, NEW YORK

Well	Measuring Point Elevation	Ground Elevation (feet)	10/1/2012		4/3/2013		8/28/2013		11/11/2013	
			DTW (feet)	Elevation (feet)	DTW (feet)	Elevation (feet)	DTW (feet)	Elevation (feet)	DTW (feet)	Elevation (feet)
MW-1	191.34	191.67	6.73	184.61	7.02	184.32	7.58	183.76	7.01	184.33
MW-2	188.9	191.34	6.78	182.12	6.92	181.98	-	-	-	-
MW-3	188.78	189.13	6.55	182.23	6.74	182.04	6.56	182.22	6.46	182.32
MW-4	189.35	189.78	NM	NM	5.80	183.55	5.88	183.47	5.67	183.68
MW-5	184.52	184.67	7.33	177.19	7.56	176.96	7.34	177.18	7.51	177.01
MW-6	187.36	187.49	5.89	181.47	6.15	181.21	-	-	-	-
MW-6R	187.81	187.91	-	-	-	-	6.19	181.62	5.99	181.82
MW-7	186.76	187.24	6.20	180.56	6.31	180.45	-	-	-	-
MW-7R	187.32	187.43	-	-	-	-	5.81	181.51	5.67	181.65
MW-8	182.59	183.01	8.11	174.48	7.57	175.02	8.19	174.40	7.60	174.99
MW-9	186.07	186.52	-	-	7.18	178.89	7.17	178.90	6.70	179.37
MW-10B	185.43	185.58	-	-	-	-	10.66	174.77	9.11	176.32
MW-11B	182.79	182.99	-	-	-	-	33.51	149.28	27.68	155.11
MW-12	187.39	187.49	-	-	-	-	12.32	175.07	9.22	178.17

Elevations based on NAVD 88 datum.
NM - Not measured.

TABLE 5
SUMMARY OF SOIL SAMPLING RESULTS (VOCs & SVOCs)
REMEDIAL INVESTIGATION
FORMER S&S CLEANERS AND DYERS SITE
SITE # 401063
13 WILLOW STREET, COHOES, NEW YORK

Sample/Boring ID	6 NYCRR Part 375	6 NYCRR Part 375	13WS-SB-1	13WS-SB-2	13WS-SB-3	13WS-SB-4	13WS-SB-5	13WS-SB-X	13WS-SB-6	13WS-SB-7
Sample Depth (feet)	Unrestricted Use	Residential	(10-12)	(15-17)	(14-15)	(9-10)	(9-10)	(10-12)	(14-15)	(9-10)
Sampling Date	Soil Cleanup	Soil Cleanup	10-12	15-17	14-15	9-10	9-10	SB-5 Dup	14-15	9-10
Matrix	Objective	Objective	2/9/09	2/9/09	2/9/09	2/9/09	2/9/09	2/9/09	2/9/09	2/9/09
Units	µg/kg	µg/kg	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
			µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
VOCs										
1,1-Dichloroethene	400	100,000	9.9 U	8.2 UJ	6.2 U	6.5 U	7.4 U	6.9 U	6.6 U	6.4 U
1,2-Dichloropropane			9.9 U	8.2 UJ	6.2 U	6.5 U	7.4 U	6.9 U	6.6 U	6.4 U
1,3-Dichlorobenzene	1600	17,000	9.9 UJ	8.2 UJ	6.2 U	6.5 UJ	7.4 UJ	6.9 U	6.6 U	6.4 UJ
Acetone	50	100,000	49 U	41 UJ	31 U	32 U	37 U	34 U	33 U	53
Benzene		2,900	9.9 U	8.2 UJ	6.2 U	6.5 U	7.4 U	6.9 U	6.6 U	6.4 U
Carbon Disulfide			9.9 U	8.2 UJ	6.2 U	6.5 U	7.4 U	6.9 U	6.6 U	6.4 U
Chlorobenzene		100,000	9.9 UJ	8.2 UJ	6.2 U	6.5 U	7.4 U	6.9 U	6.6 U	6.4 U
Chloroform		10,000	9.9 U	8.2 UJ	6.2 U	6.5 U	7.4 U	6.9 U	6.6 U	6.4 U
Chloromethane			9.9 U	8.2 UJ	6.2 U	6.5 U	7.4 U	6.9 U	6.6 U	6.4 U
cis-1,2-Dichloroethene	250	59,000	9.9 U	8.2 UJ	6.2 U	100	7.4 U	6.9 U	6.6 U	6 J
cis-1,3-Dichloropropene			9.9 U	8.2 UJ	6.2 U	6.5 U	7.4 U	6.9 U	6.6 U	6.4 U
Cyclohexane			9.9 U	8.2 UJ	6.2 U	6.5 U	7.4 U	6.9 U	6.6 U	6.4 U
Dibromochloromethane			9.9 U	8.2 UJ	6.2 U	6.5 U	7.4 U	6.9 U	6.6 U	6.4 U
Dichlorodifluoromethane			9.9 UJ	8.2 UJ	6.2 UJ	6.5 UJ	7.4 UJ	6.9 U	6.6 UJ	6.4 UJ
Ethyl Benzene	1,000	30,000	2.5 J	8.2 UJ	6.2 U	6.5 U	7.4 U	6.9 U	6.6 U	6.4 U
m/p-Xylenes			9.8 J	16 UJ	12 U	13 U	15 U	34 U	13 U	13 U
Methylene Chloride		51,000	9.9 U	8.2 UJ	6.2 U	6.5 U	7.4 U	6.9 U	6.6 U	6.4 U
o-Xylene			3.6 J	8.2 UJ	6.2 U	6.5 U	7.4 U	6.9 U	6.6 U	6.4 U
Tetrachloroethene	1,300	5,500	9.9 UJ	8.2 UJ	6.2 U	710 J	11 J	17	930 J	6.4 U
Toluene	700	100,000	2.1 J	8.2 UJ	6.2 U	6.5 U	7.4 U	6.9 U	6.6 U	6.4 U
trans-1,2-Dichloroethene	190	100,000	9.9 U	8.2 UJ	6.2 U	4.3 J	7.4 U	6.9 U	6.6 U	6.4 U
Trichloroethene	470	10,000	9.9 U	8.2 UJ	6.2 U	31	7.4 U	6.9 U	6.6 U	6.4 U
Vinyl Chloride	20	210	9.9 U	8.2 UJ	6.2 U	15	7.4 U	6.9 U	6.6 U	6.4 U
Xylene (mixed)	260	100,000	13.4 J	ND	ND	ND	ND	ND	ND	ND
SVOCs										
bis(2-Ethylhexyl)phthalate			NS	NS	NS	NS	NS	NS	NS	NS
Di-n-butylphthalate			NS	NS	NS	NS	NS	NS	NS	NS

Notes

- Concentration exceeds corresponding 6 NYCRR Part 375 Residential Soil Cleanup Objective.

- Concentration exceeds corresponding 6 NYCRR Part 375 Unrestricted Use Soil Cleanup Objective.

- Samples collected during Phase II ESA.

U - The compound was not detected at the indicated concentration.
J - The concentration given is an estimated value.
NJ - The detection is tentative in identification and estimated in value.
D - Sample diluted
R - Rejected based upon data validation.
NS - Not sampled.

TABLE 5
SUMMARY OF SOIL SAMPLING RESULTS (VOCs & SVOCs)
REMEDIAL INVESTIGATION
FORMER S&S CLEANERS AND DYERS SITE
SITE # 401063
13 WILLOW STREET, COHOES, NEW YORK

Sample/Boring ID	6 NYCRR Part 375	6 NYCRR Part 375	13WS-MW-6	13WS-SB-8	13WS-SB-9	13WS-MW-7	13WS-MW-7	13WS-MW-8	13WS-SB-10	13WS-SB-X
Sample Depth (feet)	Unrestricted Use	Residential	13-14	14-15	9-10	7-8	9-10	9-10	8-9	
Sampling Date	Soil Cleanup	Soil Cleanup	5/17/10	5/17/10	5/17/10	5/17/10	5/17/10	5/17/10	5/18/10	5/18/10
Matrix	Objective	Objective	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Units	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
VOCs										
1,1-Dichloroethene	400	100,000	6.4 U	6.2 U	6.3 U	89	9.9 J	6.1 U	6.7 U	6.5 U
1,2-Dichloropropane			6.4 U	6.2 U	6.3 U	15	5.3 J	6.1 U	6.7 U	6.5 U
1,3-Dichlorobenzene	1600	17,000	6.4 U	6.2 U	6.3 U	16 J	6.7 U	6.1 U	6.7 U	6.5 U
Acetone	50	100,000	32 U	31 U	32 U	34 U	33 U	31 U	33 U	32 U
Benzene		2,900	6.4 U	6.2 U	6.3 U	3.2 NJ	6.7 U	6.1 U	6.7 U	6.5 U
Carbon Disulfide			6.4 U	6.2 U	6.3 U	6.7 U	6.7 U	6.1 U	6.7 U	6.5 U
Chlorobenzene		100,000	6.4 U	6.2 U	6.3 U	6.7 UJ	6.3 J	6.1 U	6.7 U	6.5 U
Chloroform		10,000	6.4 U	6.2 U	6.3 U	6.7 U	6.7 U	6.1 U	6.7 U	6.5 U
Chloromethane			6.4 U	6.2 U	6.3 U	6.7 U	6.7 U	6.1 U	6.7 U	6.5 U
cis-1,2-Dichloroethene	250	59,000	6.4 U	6.2 U	6.3 U	210	57 J	2 J	110	79
cis-1,3-Dichloropropene			6.4 U	6.2 U	6.3 U	6.7 U	6.7 U	6.1 U	6.7 U	6.5 U
Cyclohexane			6.4 U	6.2 U	6.3 U	6.7 U	6.7 U	6.1 U	6.7 U	6.5 U
Dibromochloromethane			6.4 U	6.2 U	6.3 U	6.7 U	6.7 U	6.1 U	6.7 U	6.5 U
Dichlorodifluoromethane			6.4 U	6.2 U	6.3 U	6.7 U	6.7 U	6.1 U	6.7 U	6.5 U
Ethyl Benzene	1,000	30,000	6.4 U	6.2 U	6.3 U	24 J	6.7 U	6.1 U	6.7 U	6.5 U
m/p-Xylenes			13 U	12 U	13 U	89 J	1.8 J	12 U	13 U	13 U
Methylene Chloride		51,000	6.4 U	6.2 U	6.3 U	6.7 U	6.7 U	6.1 U	6.7 U	6.5 U
o-Xylene			6.4 U	6.2 U	6.3 U	35 J	6.7 U	6.1 U	6.7 U	6.5 U
Tetrachloroethene	1,300	5,500	6.4 U	6.2 U	13	560,000 D	1,300,000 D	2.8 J	150 J	11 J
Toluene	700	100,000	6.4 U	6.2 U	6.3 U	63 J	5 J	6.1 U	6.7 U	6.5 U
trans-1,2-Dichloroethene	190	100,000	6.4 U	6.2 U	6.3 U	5.7 J	6.7 U	6.1 U	28	24
Trichloroethene	470	10,000	6.4 U	6.2 U	6.3 U	1,200 J	51 J	8.3	300 J	150 J
Vinyl Chloride	20	210	6.4 U	6.2 U	6.3 U	6.7 U	6.7 U	6.1 U	6.7 U	6.5 U
Xylene (mixed)	260	100,000	ND	ND	ND	124 J	1.8 J	ND	ND	ND
SVOCs										
bis(2-Ethylhexyl)phthalate			NS	NS	NS	NS	NS	NS	NS	NS
Di-n-butylphthalate			NS	NS	NS	NS	NS	NS	NS	NS

Notes

- Concentration exceeds corresponding 6 NYCRR Part 375 Residential Soil Cleanup Objective.

- Concentration exceeds corresponding 6 NYCRR Part 375 Unrestricted Use Soil Cleanup Objective.

- Samples collected during Phase II ESA.

U - The compound was not detected at the indicated concentration.
J - The concentration given is an estimated value.
NJ - The detection is tentative in identification and estimated in value.
D - Sample diluted
R - Rejected based upon data validation.
NS - Not sampled.

TABLE 5
SUMMARY OF SOIL SAMPLING RESULTS (VOCs & SVOCs)
REMEDIAL INVESTIGATION
FORMER S&S CLEANERS AND DYERS SITE
SITE # 401063
13 WILLOW STREET, COHOES, NEW YORK

Sample/Boring ID	6 NYCRR Part 375	6 NYCRR Part 375	13WS-SB-11	13WS-SB-11	SB-12	SB-12	SB-12	SB-12	SB-13	SB-13
Sample Depth (feet)	Unrestricted Use	Residential	7-8	9-10	6-7	8-9	9-10	10-11	5-6	7-8
Sampling Date	Soil Cleanup	Soil Cleanup	5/18/10	5/18/10	12/19/12	12/19/12	12/19/12	12/19/12	12/19/12	12/19/12
Matrix	Objective	Objective	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Units	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
VOCs										
1,1-Dichloroethene	400	100,000	640 U	6.3 U	8.6 U	6.9 U	6.5 U	6.8 U	7.8 U	8 U
1,2-Dichloropropane			640 U	6.3 U	8.6 U	6.9 U	6.5 U	6.8 U	7.8 U	8 U
1,3-Dichlorobenzene	1600	17,000	640 U	6.3 U	8.6 U	6.9 U	6.5 U	6.8 U	7.8 U	8 U
Acetone	50	100,000	3200 U	31 U	10 J	3.9 J	6.5 UJ	5.4 J	64 J	47 J
Benzene		2,900	640 U	6.3 U	8.6 U	6.9 U	6.5 U	6.8 U	7.8 U	8 U
Carbon Disulfide			640 U	6.3 U	8.6 U	6.9 U	6.5 U	6.8 U	7.8 U	8 U
Chlorobenzene		100,000	640 U	6.3 U	8.6 U	6.9 U	6.5 U	6.8 U	7.8 U	8 U
Chloroform		10,000	640 U	6.3 U	8.6 U	6.9 U	6.5 U	6.8 U	7.8 U	8 U
Chloromethane			640 U	6.3 U	8.6 U	6.9 U	6.5 U	6.8 U	7.8 U	8 U
cis-1,2-Dichloroethene	250	59,000	640 U	2.1 J	13	5,700 D	6.5 U	6.8 U	7.8 U	29
cis-1,3-Dichloropropene			640 U	6.3 U	8.6 U	6.9 U	6.5 U	6.8 U	7.8 U	8 U
Cyclohexane			640 U	6.3 U	8.6 U	6.9 U	6.5 U	6.8 U	7.8 U	8 U
Dibromochloromethane			640 U	6.3 U	8.6 U	6.9 U	6.5 U	6.8 U	7.8 U	8 U
Dichlorodifluoromethane			640 U	6.3 U	8.6 U	6.9 U	6.5 U	6.8 U	7.8 U	8 U
Ethyl Benzene	1,000	30,000	640 U	6.3 U	8.6 U	6.9 U	6.5 U	6.8 U	7.8 U	8 U
m/p-Xylenes			1300 U	13 U	8.6 U	6.9 U	6.5 U	6.8 U	2.8 J	8 U
Methylene Chloride		51,000	640 U	6.3 U	2.2 J	6.9 U	6.5 U	6.8 U	7.8 U	8 U
o-Xylene			640 U	6.3 U	8.6 U	6.9 U	6.5 U	6.8 U	7.8 U	8 U
Tetrachloroethene	1,300	5,500	84,000 D	2,500 DJ	260	98,000 DJ	48	1.7 J	29	6.8 J
Toluene	700	100,000	640 U	6.3 U	8.6 U	6.9 U	6.5 U	6.8 U	7.8 U	8 U
trans-1,2-Dichloroethene	190	100,000	640 U	6.3 U	8.6 U	5.9 J	6.5 U	6.8 U	7.8 U	8 U
Trichloroethene	470	10,000	330 J	6.3 U	6 J	6,000 D	1.6 J	6.8 U	7.8 U	4.7 J
Vinyl Chloride	20	210	640 U	6.3 U	8.6 U	21	6.5 U	6.8 U	7.8 U	8 U
Xylene (mixed)	260	100,000	ND	ND	ND	ND	ND	ND	2.8 J	ND
SVOCs										
bis(2-Ethylhexyl)phthalate			NS	NS	NS	NS	NS	210 J	NS	420 U
Di-n-butylphthalate			NS	NS	NS	NS	NS	630	NS	720

Notes

- Concentration exceeds corresponding 6 NYCRR Part 375 Residential Soil Cleanup Objective.

- Concentration exceeds corresponding 6 NYCRR Part 375 Unrestricted Use Soil Cleanup Objective.

- Samples collected during Phase II ESA.

U - The compound was not detected at the indicated concentration.
J - The concentration given is an estimated value.
NJ - The detection is tentative in identification and estimated in value.
D - Sample diluted
R - Rejected based upon data validation.
NS - Not sampled.

TABLE 5
SUMMARY OF SOIL SAMPLING RESULTS (VOCs & SVOCs)
REMEDIAL INVESTIGATION
FORMER S&S CLEANERS AND DYERS SITE
SITE # 401063
13 WILLOW STREET, COHOES, NEW YORK

Sample/Boring ID	6 NYCRR Part 375	6 NYCRR Part 375	SB-13	SB-13	SB-13	SB-13	SB-14	SB-14	SB-14	SB-14
Sample Depth (feet)	Unrestricted Use	Residential	8-9	9-10	10-11	DUP-A (10-11)	0-1	2-3	5-6	7-8
Sampling Date	Soil Cleanup	Soil Cleanup	12/19/12	12/19/12	12/19/12	12/19/12	12/19/12	12/19/12	12/19/12	12/19/12
Matrix	Objective	Objective	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Units	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
VOCs										
1,1-Dichloroethene	400	100,000	6.1 U	6.5 U	7.5 U	7.9 U	7.5 U	6.5 U	6.5 U	7.1 U
1,2-Dichloropropane			6.1 U	6.5 U	7.5 U	7.9 U	7.5 U	6.5 U	6.5 U	7.1 U
1,3-Dichlorobenzene	1600	17,000	6.1 U	6.5 U	7.5 U	7.9 U	7.5 U	6.5 U	6.5 U	7.1 U
Acetone	50	100,000	17 J	7.7 J	7.6 J	8.6 J	130 D	6.5 UJ	71 J	100 J
Benzene		2,900	6.1 U	6.5 U	7.5 U	7.9 U	7.5 U	6.5 U	6.5 U	7.1 U
Carbon Disulfide			1.4 J	6.5 U	7.5 U	7.9 U	7.5 U	6.5 U	6.5 U	7.1 U
Chlorobenzene		100,000	6.1 U	6.5 U	7.5 U	7.9 U	7.5 U	6.5 U	6.5 U	7.1 U
Chloroform		10,000	6.1 U	6.5 U	7.5 U	7.9 U	7.5 U	6.5 U	6.5 U	7.1 U
Chloromethane			6.1 U	6.5 U	7.5 U	7.9 U	7.5 U	6.5 U	6.5 U	7.1 U
cis-1,2-Dichloroethene	250	59,000	150	8.7	3.9 J	3.2 J	7.5 U	6.5 U	28	240
cis-1,3-Dichloropropene			6.1 U	6.5 U	7.5 U	7.9 U	7.5 U	6.5 U	6.5 U	7.1 U
Cyclohexane			6.1 U	6.5 U	7.5 U	7.9 U	7.5 U	6.5 U	6.5 U	7.1 U
Dibromochloromethane			6.1 U	6.5 U	7.5 U	7.9 U	7.5 U	6.5 U	6.5 U	7.1 U
Dichlorodifluoromethane			6.1 U	6.5 U	7.5 U	7.9 U	7.5 U	6.5 U	6.5 U	7.1 U
Ethyl Benzene	1,000	30,000	6.1 U	6.5 U	7.5 U	7.9 U	2.7 J	6.5 U	6.5 U	7.1 U
m/p-Xylenes			6.1 U	6.5 U	7.5 U	7.9 U	11	6.5 U	6.5 U	7.1 U
Methylene Chloride		51,000	1.6 J	1.8 J	7.5 U	7.9 U	7.5 U	6.5 U	6.5 U	2.1 J
o-Xylene			6.1 U	6.5 U	7.5 U	7.9 U	2.9 J	6.5 U	6.5 U	7.1 U
Tetrachloroethene	1,300	5,500	6.1 U	2,500 DJ	2,800 DJ	810 DJ	13	43	48	1.7 J
Toluene	700	100,000	6.1 U	6.5 U	7.5 U	7.9 U	7.5 U	6.5 U	6.5 U	7.1 U
trans-1,2-Dichloroethene	190	100,000	3.7 J	6.5 U	7.5 U	7.9 U	7.5 U	6.5 U	1.3 J	10
Trichloroethene	470	10,000	2.1 J	46	73 J	29 J	7.5 U	6.5 U	9.4	1.7 J
Vinyl Chloride	20	210	5.4 J	6.5 U	7.5 U	7.9 U	7.5 U	6.5 U	6.5 U	3.9 J
Xylene (mixed)	260	100,000	ND	ND	ND	ND	2.9 J	ND	ND	ND
SVOCs										
bis(2-Ethylhexyl)phthalate			NS	NS	NS	NS	NS	NS	210 J	NS
Di-n-butylphthalate			NS	NS	NS	NS	NS	NS	620	NS

Notes

- Concentration exceeds corresponding 6 NYCRR Part 375 Residential Soil Cleanup Objective.

- Concentration exceeds corresponding 6 NYCRR Part 375 Unrestricted Use Soil Cleanup Objective.

- Samples collected during Phase II ESA.

U - The compound was not detected at the indicated concentration.
J - The concentration given is an estimated value.
NJ - The detection is tentative in identification and estimated in value.
D - Sample diluted
R - Rejected based upon data validation.
NS - Not sampled.

TABLE 5
SUMMARY OF SOIL SAMPLING RESULTS (VOCs & SVOCs)
REMEDIAL INVESTIGATION
FORMER S&S CLEANERS AND DYERS SITE
SITE # 401063
13 WILLOW STREET, COHOES, NEW YORK

Sample/Boring ID	6 NYCRR Part 375	6 NYCRR Part 375	SB-14	SB-15	SB-15	SB-15	SB-16	SB-16	SB-16	SB-16
Sample Depth (feet)	Unrestricted Use	Residential	8-9	5-6	7-8	9-10	5-6	6-7	8-9	9-10
Sampling Date	Soil Cleanup	Soil Cleanup	12/19/12	12/20/12	12/20/12	12/20/12	12/20/12	12/20/12	12/20/12	12/20/12
Matrix	Objective	Objective	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Units	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
VOCs										
1,1-Dichloroethene	400	100,000	7.2 U	7.1 U	6.3 U	5.6 U	6.1 U	6.4 U	16 U	6.2 U
1,2-Dichloropropane			7.2 U	7.1 U	6.3 U	5.6 U	6.1 U	6.4 U	16 U	6.2 U
1,3-Dichlorobenzene	1600	17,000	7.2 U	7.1 U	6.3 U	5.6 U	6.1 U	6.4 U	16 U	6.2 U
Acetone	50	100,000	54 J	7.1 UJ	6.3 UJ	2.7 J	6.8 J	6.4 UJ	16 UJ	6.2 UJ
Benzene		2,900	7.2 U	7.1 U	6.3 U	5.6 U	6.1 U	6.4 U	16 U	6.2 U
Carbon Disulfide			1.9 J	7.1 U	6.3 U	5.6 U	6.1 U	6.4 U	16 U	6.2 U
Chlorobenzene		100,000	7.2 U	7.1 U	6.3 U	5.6 U	6.1 U	6.4 U	16 U	6.2 U
Chloroform		10,000	7.2 U	7.1 U	6.3 U	5.6 U	6.1 U	6.4 U	16 U	6.2 U
Chloromethane			7.2 U	7.1 U	6.3 U	5.6 U	6.1 U	6.4 U	16 U	6.2 U
cis-1,2-Dichloroethene	250	59,000	96	7.1 U	6.3 U	5.6 U	6.1 U	6.4 U	16 U	6.2 U
cis-1,3-Dichloropropene			7.2 U	7.1 U	6.3 U	5.6 U	6.1 U	6.4 U	16 U	6.2 U
Cyclohexane			7.2 U	7.1 U	6.3 U	5.6 U	6.1 U	6.4 U	16 U	6.2 U
Dibromochloromethane			7.2 U	7.1 U	6.3 U	5.6 U	6.1 U	6.4 U	16 U	6.2 U
Dichlorodifluoromethane			7.2 U	7.1 U	6.3 U	5.6 U	6.1 U	6.4 U	16 U	6.2 U
Ethyl Benzene	1,000	30,000	7.2 U	7.1 U	6.3 U	5.6 U	6.1 U	6.4 U	16 U	6.2 U
m/p-Xylenes			7.2 U	7.1 U	6.3 U	5.6 U	6.1 U	6.4 U	16 U	6.2 U
Methylene Chloride		51,000	1.9 J	7.1 U	6.3 U	5.6 U	1.8 J	6.4 U	4.4 J	6.2 U
o-Xylene			7.2 U	7.1 U	6.3 U	5.6 U	6.1 U	6.4 U	16 U	6.2 U
Tetrachloroethene	1,300	5,500	7.2 U	18	6.3 U	5.6 U	3.1 J	9.2	350	180
Toluene	700	100,000	7.2 U	7.1 U	6.3 U	5.6 U	6.1 U	6.4 U	16 U	6.2 U
trans-1,2-Dichloroethene	190	100,000	7.2 U	7.1 U	6.3 U	5.6 U	6.1 U	6.4 U	16 U	6.2 U
Trichloroethene	470	10,000	7.2 U	7.1 U	6.3 U	5.6 U	6.1 U	6.4 U	6.7 J	3.7 J
Vinyl Chloride	20	210	7.2 U	7.1 U	6.3 U	5.6 U	6.1 U	6.4 U	16 U	6.2 U
Xylene (mixed)	260	100,000	ND	ND	ND	ND	ND	ND	ND	ND
SVOCs										
bis(2-Ethylhexyl)phthalate			NS	360 J	NS	NS	NS	NS	NS	400 U
Di-n-butylphthalate			NS	430 J	NS	NS	NS	NS	NS	450

Notes

- Concentration exceeds corresponding 6 NYCRR Part 375 Residential Soil Cleanup Objective.

- Concentration exceeds corresponding 6 NYCRR Part 375 Unrestricted Use Soil Cleanup Objective.

- Samples collected during Phase II ESA.

U - The compound was not detected at the indicated concentration.
J - The concentration given is an estimated value.
NJ - The detection is tentative in identification and estimated in value.
D - Sample diluted
R - Rejected based upon data validation.
NS - Not sampled.

TABLE 5
SUMMARY OF SOIL SAMPLING RESULTS (VOCs & SVOCs)
REMEDIAL INVESTIGATION
FORMER S&S CLEANERS AND DYERS SITE
SITE # 401063
13 WILLOW STREET, COHOES, NEW YORK

Sample/Boring ID	6 NYCRR Part 375	6 NYCRR Part 375	SB-16	SB-17	SB-17	SB-17	SB-17	SB-17	SB-18	SB-18
Sample Depth (feet)	Unrestricted Use	Residential	10-11	1-2	5-6	6-7	7-8	8-9	1-2	6-7
Sampling Date	Soil Cleanup	Soil Cleanup	12/20/12	12/20/12	12/20/12	12/20/12	12/20/12	12/20/12	12/20/12	12/20/12
Matrix	Objective	Objective	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Units	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
VOCs										
1,1-Dichloroethene	400	100,000	6.4 U	6.6 U	6.5 U	6.5 U	6.4 U	6.4 U	5.6 U	6.7 U
1,2-Dichloropropane			6.4 U	6.6 U	6.5 U	6.5 U	6.4 U	6.4 U	5.6 U	6.7 U
1,3-Dichlorobenzene	1600	17,000	6.4 U	6.6 U	6.5 U	6.5 U	6.4 U	6.4 U	5.6 U	6.7 U
Acetone	50	100,000	6.4 UJ	6.6 UJ	6.5 UJ	6.5 UJ	6.4 UJ	6.4 UJ	5.6 UJ	6.7 UJ
Benzene		2,900	6.4 U	6.6 U	6.5 U	6.5 U	6.4 U	6.4 U	5.6 U	6.7 U
Carbon Disulfide			6.4 U	6.6 U	6.5 U	6.5 U	6.4 U	6.4 U	5.6 U	6.7 U
Chlorobenzene		100,000	6.4 U	6.6 U	6.5 U	6.5 U	6.4 U	6.4 U	5.6 U	6.7 U
Chloroform		10,000	6.4 U	6.6 U	6.5 U	6.5 U	6.4 U	6.4 U	5.6 U	6.7 U
Chloromethane			6.4 U	6.6 U	6.5 U	6.5 U	6.4 U	6.4 U	5.6 U	6.7 U
cis-1,2-Dichloroethene	250	59,000	6.4 U	6.6 U	6.5 U	6.5 U	6.4 U	6.4 U	5.6 U	6.7 U
cis-1,3-Dichloropropene			6.4 U	6.6 U	6.5 U	6.5 U	6.4 U	6.4 U	5.6 U	6.7 U
Cyclohexane			6.4 U	6.6 U	6.5 U	6.5 U	6.4 U	6.4 U	5.6 U	6.7 U
Dibromochloromethane			6.4 U	6.6 U	6.5 U	6.5 U	6.4 U	6.4 U	5.6 U	6.7 U
Dichlorodifluoromethane			6.4 U	6.6 U	6.5 U	6.5 U	6.4 U	6.4 U	5.6 U	6.7 U
Ethyl Benzene	1,000	30,000	6.4 U	6.6 U	6.5 U	6.5 U	6.4 U	6.4 U	5.6 U	6.7 U
m/p-Xylenes			6.4 U	6.6 U	6.5 U	6.5 U	6.4 U	6.4 U	5.6 U	6.7 U
Methylene Chloride		51,000	6.4 U	2.1 J	2.5 J	6.5 U	6.4 U	6.4 U	5.6 U	1.8 J
o-Xylene			6.4 U	6.6 U	6.5 U	6.5 U	6.4 U	6.4 U	5.6 U	6.7 U
Tetrachloroethene	1,300	5,500	94	6.6 U	3.8 J	6.5 U	6.4 U	1.6 J	5.6 U	4.9 J
Toluene	700	100,000	6.4 U	6.6 U	6.5 U	6.5 U	6.4 U	6.4 U	5.6 U	6.7 U
trans-1,2-Dichloroethene	190	100,000	6.4 U	6.6 U	6.5 U	6.5 U	6.4 U	6.4 U	5.6 U	6.7 U
Trichloroethene	470	10,000	2.1 J	6.6 U	6.5 U	6.5 U	6.4 U	6.4 U	5.6 U	6.7 U
Vinyl Chloride	20	210	6.4 U	6.6 U	6.5 U	6.5 U	6.4 U	6.4 U	5.6 U	6.7 U
Xylene (mixed)	260	100,000	ND	ND	ND	ND	ND	ND	ND	ND
SVOCs										
bis(2-Ethylhexyl)phthalate			NS	NS	NS	NS	NS	110 J	NS	450 U
Di-n-butylphthalate			NS	NS	NS	NS	NS	370 J	NS	510

Notes

- Concentration exceeds corresponding 6 NYCRR Part 375 Residential Soil Cleanup Objective.

- Concentration exceeds corresponding 6 NYCRR Part 375 Unrestricted Use Soil Cleanup Objective.

- Samples collected during Phase II ESA.

U - The compound was not detected at the indicated concentration.
J - The concentration given is an estimated value.
NJ - The detection is tentative in identification and estimated in value.
D - Sample diluted
R - Rejected based upon data validation.
NS - Not sampled.

TABLE 5
SUMMARY OF SOIL SAMPLING RESULTS (VOCs & SVOCs)
REMEDIAL INVESTIGATION
FORMER S&S CLEANERS AND DYERS SITE
SITE # 401063
13 WILLOW STREET, COHOES, NEW YORK

Sample/Boring ID	6 NYCRR Part 375	6 NYCRR Part 375	SB-18	SB-18	SB-19	SB-19	SB-19
Sample Depth (feet)	Unrestricted Use	Residential	8-9	11-12	2-3	7-8	9-10
Sampling Date	Soil Cleanup	Soil Cleanup	12/20/12	12/20/12	12/20/12	12/20/12	12/20/12
Matrix	Objective	Objective	SOIL	SOIL	SOIL	SOIL	SOIL
Units	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
VOCs							
1,1-Dichloroethene	400	100,000	6.2 U	6.8 U	6.7 U	6.4 U	6.7 U
1,2-Dichloropropane			6.2 U	6.8 U	6.7 U	6.4 U	6.7 U
1,3-Dichlorobenzene	1600	17,000	6.2 U	6.8 U	6.7 U	6.4 U	6.7 U
Acetone	50	100,000	6.2 UJ	6.8 UJ	6.7 UJ	6.4 UJ	6.7 UJ
Benzene		2,900	6.2 U	6.8 U	6.7 U	6.4 U	6.7 U
Carbon Disulfide			6.2 U	6.8 U	6.7 U	6.4 U	6.7 U
Chlorobenzene		100,000	6.2 U	6.8 U	6.7 U	6.4 U	6.7 U
Chloroform		10,000	6.2 U	6.8 U	6.7 U	6.4 U	6.7 U
Chloromethane			6.2 U	6.8 U	6.7 U	6.4 U	6.7 U
cis-1,2-Dichloroethene	250	59,000	6.2 U	6.8 U	6.7 U	6.4 U	6.7 U
cis-1,3-Dichloropropene			6.2 U	6.8 U	6.7 U	6.4 U	6.7 U
Cyclohexane			6.2 U	6.8 U	6.7 U	6.4 U	6.7 U
Dibromochloromethane			6.2 U	6.8 U	6.7 U	6.4 U	6.7 U
Dichlorodifluoromethane			6.2 U	6.8 U	6.7 U	6.4 U	6.7 U
Ethyl Benzene	1,000	30,000	6.2 U	6.8 U	6.7 U	6.4 U	6.7 U
m/p-Xylenes			6.2 U	6.8 U	6.7 U	6.4 U	6.7 U
Methylene Chloride		51,000	6.2 U	6.8 U	6.7 U	6.4 U	6.7 U
o-Xylene			6.2 U	6.8 U	6.7 U	6.4 U	6.7 U
Tetrachloroethene	1,300	5,500	140	38 J	2.4 J	6.4 U	6.7 U
Toluene	700	100,000	6.2 U	6.8 U	6.7 U	6.4 U	6.7 U
trans-1,2-Dichloroethene	190	100,000	6.2 U	6.8 U	6.7 U	6.4 U	6.7 U
Trichloroethene	470	10,000	6.2 U	6.8 U	6.7 U	6.4 U	6.7 U
Vinyl Chloride	20	210	6.2 U	6.8 U	6.7 U	6.4 U	6.7 U
Xylene (mixed)	260	100,000	ND	ND			
SVOCs							
bis(2-Ethylhexyl)phthalate			NS	NS	NS	120 J	NS
Di-n-butylphthalate			NS	NS	NS	380 J	NS

Notes

- Concentration exceeds corresponding 6 NYCRR Part 375 Residential Soil Cleanup Objective.

- Concentration exceeds corresponding 6 NYCRR Part 375 Unrestricted Use Soil Cleanup Objective.

- Samples collected during Phase II ESA.

U - The compound was not detected at the indicated concentration.
J - The concentration given is an estimated value.
NJ - The detection is tentative in identification and estimated in value.
D - Sample diluted
R - Rejected based upon data validation.
NS - Not sampled.

TABLE 6
SUMMARY OF SOIL SAMPLING RESULTS (Metals)
REMEDIAL INVESTIGATION
FORMER S&S CLEANERS AND DYERS SITE
SITE # 401063
13 WILLOW STREET, COHOES, NEW YORK

Sample ID	6 NYCRR Part 375	6 NYCRR Part 375	13WS-SB-1	13WS-SB-2	13WS-SB-3	13WS-SB-4	13WS-SB-5	13WS-SB-X	13WS-SB-6	13WS-SB-7
Sample Depth (feet)	Unrestricted Use	Residential	(10-12)	(15-17)	(14-15)	(9-10)	(9-10)	(10-12)	(14-15)	(9-10)
Sampling Date	Soil Cleanup	Soil Cleanup	10-12	15-17	14-15	9-10	9-10	SB-5 Dup	14-15	9-10
Matrix	Objective	Objectives	2/9/09	2/9/09	2/9/09	2/9/09	2/9/09	2/9/09	2/9/09	2/9/09
Units	mg/kg	mg/kg	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
TAL METALS (Total)										
Aluminum			11,800	8,050	6,610	10,500	15,700	13,900	13,800	11,700
Antimony			2.28 U	2.09 U	2.05 U	2.16 U	2.5 U	2.27 U	2.21 U	2.15 U
Arsenic	13	16	10.1	5.66	9.43	18	9.75	6.97	9.23	7.57
Barium	350	350	62.6	60.4	54.4	122	92.9	97.9	131	112
Beryllium	7.2	14	0.817	0.536	0.445	0.724	1.110	0.966	0.962	0.893
Cadmium	2.5	2.5	0.3 U	0.3 U	0.2 U	0.3 U	0.3 U	0.3 U	0.1 J	0.3 U
Calcium			40,100	44,200	37,900	39,500	35,700	27,200	26,700	36,000
Chromium	30	36	14.5 J	10.4 J	9.2 J	13.4 J	19.1 J	17.5 J	17.0 J	14.6 J
Cobalt			15.2 J	9.2 J	7.8 J	10.8 J	19.6 J	12.2 J	18.0 J	10.9 J
Copper	50	270	25.2 J	23.0 J	21.4 J	24.3 J	33.2 J	28.9 J	34.9 J	26.2 J
Iron			30,300	22,800	20,900	31,100	37,200	32,800	33,500	27,800
Lead	63	400	12.4 J	9.9 J	8.9 J	12.5 J	15.9 J	12.8 J	16.5 J	25.3 J
Magnesium			11,300	12,500	10,400	11,000	13,200	11,800	9,940	9,220
Manganese	1,600	2,000	863	626	549	836	967 J	569 J	1,280	761
Mercury	0.18	0.81	0.025 J	0.253 U	0.023 J	0.036 J	0.029 J	0.274 U	0.025 J	0.167 J
Nickel	30	140	26.0	17.6	15.0	26.6	35.3	27.5	34.5	22.6
Potassium			1,760	1,110	801	1,420	2,370	1,980	1,600	1,700
Selenium	3.9	36	0.912 U	0.836 U	0.820 U	0.865 U	1.000 U	0.907 U	0.885 U	0.860 U
Silver	2	36	0.456 U	0.418 U	0.410 U	0.432 U	0.500 U	0.454 U	0.443 U	0.430 U
Sodium			423 J	359 J	306 J	376 J	448 J	416 J	366 J	420 J
Thallium			1.82 U	1.67 U	1.64 U	1.73 U	2.00 U	1.81 U	1.77 U	1.72 U
Vanadium			20.2	16.0	15.8	19.4	25.8	22.9	22.3	23.8
Zinc	109	2,200	63.4 J	45.8 J	40.9 J	61.0 J	81.2 J	72.2 J	77.3 J	64.8 J

Qualifiers

- Concentration exceeds corresponding 6 NYCRR Part 375 Residential Soil Cleanup Objective.

- Concentration exceeds corresponding 6 NYCRR Part 375 Unrestricted Use Soil Cleanup Objective.

- Samples collected during Phase II ESA.

U - The compound was not detected at the indicated concentration.
J - The concentration given is an estimated value.

TABLE 6
SUMMARY OF SOIL SAMPLING RESULTS (Metals)
REMEDIAL INVESTIGATION
FORMER S&S CLEANERS AND DYERS SITE
SITE # 401063
13 WILLOW STREET, COHOES, NEW YORK

Sample ID Sample Depth (feet) Sampling Date Matrix Units	6 NYCRR Part 375 Unrestricted Use Soil Cleanup Objective mg/kg	6 NYCRR Part 375 Residential Soil Cleanup Objectives mg/kg	SB-12 10-11 12/19/12 SOIL mg/kg	SB-13 7-8 12/19/12 SOIL mg/kg	SB-14 5-6 12/19/12 SOIL mg/kg	SB-15 5-6 12/20/12 SOIL mg/kg	SB-16 9-10 12/20/12 SOIL mg/kg	SB-17 8-9 12/20/12 SOIL mg/kg	SB-18 6-7 12/20/12 SOIL mg/kg	SB-19 7-8 12/20/12 SOIL mg/kg
TAL METALS (Total)										
Aluminum			9,570	20,400	22,100	15,600	17,500	9,000	16,500	20,800
Antimony			0.42 U	0.46 U	0.41 U	0.59 J	0.62 J	0.47 J	0.61 J	1.1 J
Arsenic	13	16	6.8	6	2.7	8.2	7.5	8.1	9.5	8.8
Barium	350	350	66.1	109	119	101	117	34.7	102	131
Beryllium	7.2	14	0.5	1.3	0.96	0.73	0.86	0.41	0.98	1.2
Cadmium	2.5	2.5	0.017 U	0.018 U	0.016 U	0.5	0.52	0.4	0.46	0.61
Calcium			43,100	1660	4,780	31,600	37,900	53,400	30,000	32,600
Chromium	30	36	13	22.3	22.5	19.3	20.7	12.1	21.6	23.2
Cobalt			12.7	19	20.6	13.3	14.7	9.3	16.2	17.5
Copper	50	270	33.4	31	19.6	56.7	40.4	34.3	87.7	54.3
Iron			24,200	42,900	34,200	34,600	35,500	25,500	36,800	40,400
Lead	63	400	12.5	13	15.8	17.4 *	15.3 *	10.5 *	12.8 *	11.6 *
Magnesium			12,500	6,170	6,780	11,300	12,300	13,200	9,020	8,130
Manganese	1,600	2,000	730	319	357	566	639	584	580	564
Mercury	0.18	0.81	0.035 B	0.035 B	0.028 B	0.029 B	0.034 B	0.025 B	0.034 B	0.044
Nickel	30	140	23.3	33.2	27.3	31.1	31.4	19.2	34.5	35.2
Potassium			1,250	2030	2,300	1,930	2,300	980	2,270	3,130
Selenium	3.9	36	0.7 U	0.77 U	0.92 B	0.68 U	0.73 U	0.59 U	0.84 U	0.8 U
Silver	2	36	0.07 U	0.077 U	0.069 U	0.26 B	0.4 B	0.16 B	0.25 B	0.12 B
Sodium			172	594	644	153 J	170 J	112 J	168 J	309 J
Thallium			0.51 B	0.4 B	0.24 U	0.24 U	0.25 U	0.2 U	0.29 U	0.27 U
Vanadium			20.1	38.5	33.5	22.2	25	17.8	32.1	36.6
Zinc	109	2,200	59.9	85.3	81.2	82.5	82	51.5	88.9	89.5

Qualifiers

- Concentration exceeds corresponding 6 NYCRR Part 375 Residential Soil Cleanup Objective.

- Concentration exceeds corresponding 6 NYCRR Part 375 Unrestricted Use Soil Cleanup Objective.

- Samples collected during Phase II ESA.

U - The compound was not detected at the indicated concentration.
J - The concentration given is an estimated value.

TABLE 7
SUMMARY OF SOIL SAMPLING RESULTS (Pesticides & PCBs)
REMEDIAL INVESTIGATION
FORMER S&S CLEANERS AND DYERS SITE
SITE # 401063
13 WILLOW STREET, COHOES, NEW YORK

Sample ID	6 NYCRR Part 375	6 NYCRR Part 375	SB-12	SB-13	SB-14	SB-15	SB-16	SB-17	SB-18	SB-19
Sample Depth (feet)			10-11	7-8	5-6	5-6	9-10	8-9	6-7	7-8
Sampling Date	Unrestricted Use Soil Cleanup Objective	Residential Soil Cleanup Objective	12/19/12	12/19/12	12/19/12	12/20/12	12/20/12	12/20/12	12/20/12	12/20/12
Matrix			SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Units	ug/kg	ug/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Organochlorine Pesticides										
4,4'-DDD	3.3	2,600	4.1 U	4.3 U	4.2 U	4.4 U	4.1 U	4 U	4.4 U	4.2 U
4,4'-DDE	3.3	1,800	4.1 U	4.3 U	4.2 U	4.4 UJ	4.1 U	4 U	4.4 U	4.2 U
4,4'-DDT	3.3	1,700	4.1 U	4.3 U	4.2 U	4.4 U	4.1 U	4 U	4.4 U	4.2 U
Aldrin	5	19	2.1 U	2.2 U	2.2 U	2.3 U	2.1 U	2.1 U	2.3 U	2.2 U
alpha-BHC	20	97	2.1 U	2.2 U	2.2 U	2.3 U	2.1 U	2.1 U	2.3 U	2.2 U
alpha-Chlordane	94	910	2.1 U	2.2 U	2.2 U	2.3 U	2.1 U	2.1 U	2.3 U	2.2 U
beta-BHC	40	72	2.1 U	2.2 U	2.2 U	2.3 U	2.1 U	2.1 U	2.3 U	2.2 U
delta-BHC	40	100,000	2.1 U	2.2 U	2.2 U	2.3 U	2.1 U	2.1 U	2.3 U	2.2 U
Dieldrin	5	39	4.1 U	4.3 U	4.2 U	4.4 U	4.1 U	4 U	4.4 U	4.2 U
Endosulfan I	2,400	4,800	2.1 U	2.2 U	2.2 U	2.3 U	2.1 U	2.1 U	2.3 U	2.2 U
Endosulfan II	2,400	4,800	4.1 U	4.3 U	4.2 U	4.4 U	4.1 U	4 U	4.4 U	4.2 U
Endosulfan Sulfate	2,400	4,800	4.1 U	4.3 U	4.2 U	4.4 U	4.1 U	4 U	4.4 U	4.2 U
Endrin	14	2,200	4.1 U	4.3 U	4.2 U	4.4 U	4.1 U	4 U	4.4 U	4.2 U
Endrin aldehyde			4.1 U	4.3 U	4.2 U	4.4 U	4.1 U	4 U	4.4 U	4.2 U
Endrin ketone			4.1 U	4.3 U	4.2 U	4.4 U	4.1 U	4 U	4.4 U	4.2 U
gamma-BHC (Lindane)	100	280	2.1 U	2.2 U	2.2 U	2.3 U	2.1 U	2.1 U	2.3 U	2.2 U
gamma-Chlordane			2.1 U	2.2 U	2.2 U	2.3 UJ	2.1 U	2.1 U	2.3 U	2.2 U
Heptachlor	42	420	2.1 U	2.2 U	2.2 U	2.3 U	2.1 U	2.1 U	2.3 U	2.2 U
Heptachlor epoxide			2.1 U	2.2 U	2.2 U	2.3 U	2.1 U	2.1 U	2.3 U	2.2 U
Methoxychlor			21 U	22 U	22 U	23 U	21 U	21 U	23 U	22 U
Toxaphene			210 U	220 U	220 U	230 U	210 U	210 U	230 U	220 U
PCBs										
Aroclor-1016	-	-	41 U	43 U	42 U	44 U	41 U	40 U	44 U	42 U
Aroclor-1221	-	-	41 U	43 U	42 U	44 U	41 U	40 U	44 U	42 U
Aroclor-1232	-	-	41 U	43 U	42 U	44 U	41 U	40 U	44 U	42 U
Aroclor-1242	-	-	41 U	43 U	42 U	44 U	41 U	40 U	44 U	42 U
Aroclor-1248	-	-	41 U	43 U	42 U	44 U	41 U	40 U	44 U	42 U
Aroclor-1254	-	-	41 U	43 U	42 U	44 U	41 U	40 U	44 U	42 U
Aroclor-1260	-	-	41 U	43 U	42 U	44 U	41 U	40 U	44 U	42 U
Aroclor-1262		-	41 U	43 U	42 U	44 U	41 U	40 U	44 U	42 U
Aroclor-1268		-	41 U	43 U	42 U	44 U	41 U	40 U	44 U	42 U
Total PCBs	100	1,000								

Notes

- Concentration exceeds corresponding 6 NYCRR Part 375 Residential Soil Cleanup Objective.

- Concentration exceeds corresponding 6 NYCRR Part 375 Unrestricted Use Soil

U - The compound was not detected at the indicated concentration.

TABLE 8
SUMMARY OF GROUNDWATER SAMPLING RESULTS
(VOCs and SVOCs)
REMEDIAL INVESTIGATION
FORMER S&S CLEANERS AND DYERS SITE
SITE # 401063
13 WILLOW STREET, COHOES, NEW YORK

Sample ID Sampling Date Matrix Units	NYSDEC Class GA Standard ug/L	MW-1			
		3/9/2009 WATER µg/L	11/18/2009 WATER µg/L	10/1/2012 WATER µg/L	11/11/2013 WATER µg/L
VOCs					
1,1-Dichloroethene	5	1 U	1 U	1 U	1 U
1,2-Dichloropropane		1 U	1 U	1 U	1 U
2-Butanone	50	5 U	5 U	5 U	5 UJ
Acetone	50	13	5 U	5 U	5 UJ
Benzene	1	1 U	1 U	1 U	1 U
Carbon Disulfide		1 U	1 U	1 U	1 U
Chlorobenzene	5	1 U	1 U	1 U	1 U
Chloroform	7	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U
Ethyl Benzene	5	1 U	1 U	1 U	1 U
m/p-Xylenes	5	2 U	2 U	1 U	1 U
Methylene Chloride	5	1 U	1 U	1 U	1 U
o-Xylene	5	1 U	1 U	1 U	1 U
Tetrachloroethene	5	1 U	1 U	0.93 J	1.4
Toluene	5	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U
Trichloroethene	5	1 U	1 U	1 U	1 U
Vinyl Chloride	2	1 U	1 U	1 U	1 U
SVOCs					
Di-n-butylphthalate	50	NS	NS	NS	NS

Notes

- Concentration exceeds corresponding NYSDEC Class GA Standard.

- Samples collected during Phase II ESA.

U - The compound was not detected at the indicated concentration.
J - Estimated value.
NJ - Tentative in identification and estimated in value.
D - Results obtained from a dilution.
NS- Not sampled.

TABLE 8
SUMMARY OF GROUNDWATER SAMPLING RESULTS
(VOCs and SVOCs)
REMEDIAL INVESTIGATION
FORMER S&S CLEANERS AND DYERS SITE
SITE # 401063
13 WILLOW STREET, COHOES, NEW YORK

Sample ID Sampling Date Matrix Units	NYSDEC Class GA Standard ug/L	MW-2				
		3/9/2009 WATER µg/L	DUP (3/9/2009) WATER µg/L	11/18/2009 WATER µg/L	DUP (11/18/2009) WATER µg/L	10/1/2012 WATER µg/L
VOCs						
1,1-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane		1 U	1 U	1 U	1 U	1 U
2-Butanone	50	5 U	5 U	5 U	5 U	5 U
Acetone	50	16	17	5 U	5 U	5 U
Benzene	1	1 U	1 U	1 U	1 U	1 U
Carbon Disulfide		1 U	1 U	1 U	1 U	1 U
Chlorobenzene	5	1 U	1 U	1 U	1 U	1 U
Chloroform	7	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	5	1 U	1 U	1 U	0.49 J	1 U
Ethyl Benzene	5	1 U	1 U	1 U	1 U	1 U
m/p-Xylenes	5	2 U	2 U	2 U	2 U	1 U
Methylene Chloride	5	1 U	1 U	1 U	0.54 J	1 U
o-Xylene	5	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	5	18	14	17	25	8.1
Toluene	5	1 U	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U
Trichloroethene	5	1 U	1 U	1 U	1 U	1 U
Vinyl Chloride	2	1 U	1 U	1 U	1 U	1 U
SVOCs						
Di-n-butylphthalate	50	NS	NS	NS	NS	NS

Notes
- Concentration exceeds corresponding NYSDEC Class GA Standard.
- Samples collected during Phase II ESA.

U - The compound was not detected at the indicated concentration.
J - Estimated value.
NJ - Tentative in identification and estimated in value.
D - Results obtained from a dilution.
NS- Not sampled.

TABLE 8
SUMMARY OF GROUNDWATER SAMPLING RESULTS
(VOCs and SVOCs)
REMEDIAL INVESTIGATION
FORMER S&S CLEANERS AND DYERS SITE
SITE # 401063
13 WILLOW STREET, COHOES, NEW YORK

Sample ID Sampling Date Matrix Units	NYSDEC Class GA Standard ug/L	MW-3			
		3/9/2009 WATER µg/L	11/19/2009 WATER µg/L	10/1/2012 WATER µg/L	11/11/2013 WATER µg/L
VOCs					
1,1-Dichloroethene	5	1 U	1 U	1 U	1 U
1,2-Dichloropropane		1 U	1 U	1 U	1 U
2-Butanone	50	5 U	5 U	5 U	5 UJ
Acetone	50	5 U	5 U	5 U	5 UJ
Benzene	1	1 U	1 U	1 U	1 U
Carbon Disulfide		1 U	1 U	1 UJ	1 U
Chlorobenzene	5	1 U	1 U	1 U	1 U
Chloroform	7	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U
Ethyl Benzene	5	1 U	1 U	1 U	1 U
m/p-Xylenes	5	2 U	2 U	1 U	1 U
Methylene Chloride	5	1 U	1 U	1 UJ	1 U
o-Xylene	5	1 U	1 U	1 U	1 U
Tetrachloroethene	5	1 U	1 U	1 U	7.1
Toluene	5	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U
Trichloroethene	5	1 U	1 U	1 U	1 U
Vinyl Chloride	2	1 U	1 U	1 U	1 U
SVOCs					
Di-n-butylphthalate	50	NS	NS	NS	NS

Notes
- Concentration exceeds corresponding NYSDEC Class GA Standard.
- Samples collected during Phase II ESA.

U - The compound was not detected at the indicated concentration.
J - Estimated value.
NJ - Tentative in identification and estimated in value.
D - Results obtained from a dilution.
NS- Not sampled.

TABLE 8
SUMMARY OF GROUNDWATER SAMPLING RESULTS
(VOCs and SVOCs)
REMEDIAL INVESTIGATION
FORMER S&S CLEANERS AND DYERS SITE
SITE # 401063
13 WILLOW STREET, COHOES, NEW YORK

Sample ID Sampling Date Matrix Units	NYSDEC Class GA Standard ug/L	MW-4 3/9/2009 WATER µg/L	 11/18/2009 WATER µg/L	 12/19/2012 WATER µg/L	 11/11/2013 WATER µg/L
VOCs					
1,1-Dichloroethene	5	1 U	1 U	1 U	1 U
1,2-Dichloropropane		1 U	1 U	1 U	1 U
2-Butanone	50	5 U	5 U	5 UJ	5 UJ
Acetone	50	5 U	14	5 UJ	5 UJ
Benzene	1	1 U	1 U	1 U	1 U
Carbon Disulfide		1 U	1 U	1 UJ	1 U
Chlorobenzene	5	1 U	1 U	1 UJ	1 U
Chloroform	7	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U
Ethyl Benzene	5	1 U	1 U	1 U	1 U
m/p-Xylenes	5	2 U	2 U	1 U	1 U
Methylene Chloride	5	1 U	0.68 J	1 U	1 U
o-Xylene	5	1 U	1 U	1 U	1 U
Tetrachloroethene	5	1 U	1 U	1 U	1 U
Toluene	5	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U
Trichloroethene	5	1 U	1 U	1 U	1 U
Vinyl Chloride	2	1 U	1 U	1 UJ	1 U
SVOCs					
Di-n-butylphthalate	50	NS	NS	NS	NS

Notes

- Concentration exceeds corresponding NYSDEC Class GA Standard.

- Samples collected during Phase II ESA.

U - The compound was not detected at the indicated concentration.
J - Estimated value.
NJ - Tentative in identification and estimated in value.
D - Results obtained from a dilution.
NS- Not sampled.

TABLE 8
SUMMARY OF GROUNDWATER SAMPLING RESULTS
(VOCs and SVOCs)
REMEDIAL INVESTIGATION
FORMER S&S CLEANERS AND DYERS SITE
SITE # 401063
13 WILLOW STREET, COHOES, NEW YORK

Sample ID Sampling Date Matrix Units	NYSDEC Class GA Standard ug/L	MW-5 3/9/2009 WATER µg/L	MW-5 11/19/2009 WATER µg/L	MW-5 10/2/2012 WATER µg/L	MW-5 11/12/2013 WATER µg/L
VOCs					
1,1-Dichloroethene	5	1 U	1 U	1 U	1 U
1,2-Dichloropropane		1 U	1 U	1 U	1 U
2-Butanone	50	5 U	5 U	5 U	5 UJ
Acetone	50	23	11	5 U	6.3 J
Benzene	1	1 U	1 U	1 U	1 U
Carbon Disulfide		1 U	1 U	1 U	1 U
Chlorobenzene	5	1 U	1 U	1 U	1 U
Chloroform	7	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U
Ethyl Benzene	5	1 U	1 U	1 U	1 U
m/p-Xylenes	5	2 U	2 U	1 U	1 U
Methylene Chloride	5	1 U	1 U	1 U	1 U
o-Xylene	5	1 U	1 U	1 U	1 U
Tetrachloroethene	5	1 U	1 U	1 U	1 U
Toluene	5	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U
Trichloroethene	5	1 U	1 U	1 U	1 U
Vinyl Chloride	2	1 U	1 U	1 U	1 U
SVOCs					
Di-n-butylphthalate	50	NS	NS	NS	NS

Notes

- Concentration exceeds corresponding NYSDEC Class GA Standard.

- Samples collected during Phase II ESA.

U - The compound was not detected at the indicated concentration.
J - Estimated value.
NJ - Tentative in identification and estimated in value.
D - Results obtained from a dilution.
NS- Not sampled.

TABLE 8
SUMMARY OF GROUNDWATER SAMPLING RESULTS
(VOCs and SVOCs)
REMEDIAL INVESTIGATION
FORMER S&S CLEANERS AND DYERS SITE
SITE # 401063
13 WILLOW STREET, COHOES, NEW YORK

Sample ID Sampling Date Matrix Units	NYSDEC Class GA Standard ug/L	MW-6			MW-6R
		5/27/2010 WATER µg/L	11/15/2010 WATER µg/L	10/1/2012 WATER µg/L	11/11/2013 WATER µg/L
VOCs					
1,1-Dichloroethene	5	1 U	1 U	1 U	1 U
1,2-Dichloropropane		1 U	1 U	1 U	1 U
2-Butanone	50	5 U	5 U	5 U	5 UJ
Acetone	50	8 J	5 UJ	5 U	5 UJ
Benzene	1	1 U	1 U	1 U	1 U
Carbon Disulfide		1 U	1 U	1 UJ	1 U
Chlorobenzene	5	1 U	1 U	1 U	1 U
Chloroform	7	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	5	1 U	1 U	1 U	76
Ethyl Benzene	5	1 U	1 U	1 U	1 U
m/p-Xylenes	5	2 U	2 U	1 U	1 U
Methylene Chloride	5	1 U	1 U	1 UJ	1 U
o-Xylene	5	1 U	1 U	1 U	1 U
Tetrachloroethene	5	1 U	1.2 J	0.81 J	1 U
Toluene	5	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U
Trichloroethene	5	1 U	1 U	1 U	1.2
Vinyl Chloride	2	1 U	1 U	1 U	18
SVOCs					
Di-n-butylphthalate	50	NS	NS	NS	NS

Notes

- Concentration exceeds corresponding NYSDEC Class GA Standard.

- Samples collected during Phase II ESA.

U - The compound was not detected at the indicated concentration.
J - Estimated value.
NJ - Tentative in identification and estimated in value.
D - Results obtained from a dilution.
NS- Not sampled.

TABLE 8
SUMMARY OF GROUNDWATER SAMPLING RESULTS
(VOCs and SVOCs)
REMEDIAL INVESTIGATION
FORMER S&S CLEANERS AND DYERS SITE
SITE # 401063
13 WILLOW STREET, COHOES, NEW YORK

Sample ID Sampling Date Matrix Units	NYSDEC Class GA Standard ug/L	MW-7				MW-7R	
		5/27/2010 WATER µg/L	DUP (5/27/2010) WATER µg/L	11/15/2010 WATER µg/L	10/4/2012 WATER µg/L	11/11/2013 WATER µg/L	DUP (11/11/13) WATER µg/L
VOCs							
1,1-Dichloroethene	5	7 J	7 J	11	4.6 J	1 U	1.1
1,2-Dichloropropane		2 J	3 J	3.8	1 U	1 U	1 U
2-Butanone	50	5 UJ	5 U	5 U	5 UJ	40 UJ	40 UJ
Acetone	50	12 J	10 J	5 UJ	5 UJ	5 UJ	5 UJ
Benzene	1	1 J	1 J	1 U	1 U	1 U	1 U
Carbon Disulfide		1 UJ	1 UJ	0.6 J	1 U	1 U	1 U
Chlorobenzene	5	6.2 J	5.9 J	9.7	4.1 J	1 U	1 U
Chloroform	7	1 UJ	1 UJ	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	5	56 J	57 J	100 D	110 J	620 D	650 D
Ethyl Benzene	5	1 NJ	1 J	0.7 NJ	1 U	1 U	1 U
m/p-Xylenes	5	1.5 J	1.5 J	2 U	1 U	1 U	1 U
Methylene Chloride	5	1 UJ	1 UJ	1 U	1 UJ	1 U	1 U
o-Xylene	5	1 J	1 J	1.1	0.57 J	1 U	1 U
Tetrachloroethene	5	51,000 D	58,000 D	130,000 DJ	45,000	1 U	1 U
Toluene	5	3 J	3 J	4.8	1.4 J	1 U	1 U
trans-1,2-Dichloroethene	5	1 J	1 J	1.6	1.1 J	1.9	1.7
Trichloroethene	5	210 D	200 D	230 D	120 J	1.1	1.1
Vinyl Chloride	2	3 J	3 J	8	7.8 J	110	110
SVOCs							
Di-n-butylphthalate	50	NS	NS	NS	1.1 J	NS	NS

Notes

- Concentration exceeds corresponding NYSDEC Class GA Standard.

- Samples collected during Phase II ESA.

U - The compound was not detected at the indicated concentration.
J - Estimated value.
NJ - Tentative in identification and estimated in value.
D - Results obtained from a dilution.
NS- Not sampled.

TABLE 8
SUMMARY OF GROUNDWATER SAMPLING RESULTS
(VOCs and SVOCs)
REMEDIAL INVESTIGATION
FORMER S&S CLEANERS AND DYERS SITE
SITE # 401063
13 WILLOW STREET, COHOES, NEW YORK

Sample ID Sampling Date Matrix Units	NYSDEC Class GA Standard ug/L	MW-8					
		5/27/2010 WATER µg/L	11/15/2010 WATER µg/L	DUP (11/15/2010) WATER µg/L	10/1/2012 WATER µg/L	DUP (10/1/2012) WATER µg/L	11/13/2013 WATER µg/L
VOCs							
1,1-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane		1 U	1 U	1 U	1 U	1 U	1 U
2-Butanone	50	5 U	5 U	5 U	5 U	5 U	5 UJ
Acetone	50	6.9 J	5 U	5 UJ	5 U	5 U	5 UJ
Benzene	1	1 U	1 U	1 U	1 U	1 U	1 U
Carbon Disulfide		1 U	1 U	1 U	1 UJ	1 UJ	1 U
Chlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	7	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	5	5	2.4	2.3	1 U	0.51 J	1.2
Ethyl Benzene	5	1 U	1 U	1 U	1 U	1 U	1 U
m/p-Xylenes	5	2 U	2 U	2 U	1 U	1 U	1 U
Methylene Chloride	5	1 U	1 U	1 U	1 U	1 UJ	1 U
o-Xylene	5	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	5	7	1 U	1 U	1 U	1 U	1 U
Toluene	5	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	5	1	1 U	1 U	1 U	1 U	1 U
Trichloroethene	5	14	1 U	1.1	1 U	1 U	1 U
Vinyl Chloride	2	1 U	1 U	1 U	1 U	1 U	1 U
SVOCs							
Di-n-butylphthalate	50	NS	NS	NS	10 U	10 U	10 U

Notes

- Concentration exceeds corresponding NYSDEC Class GA Standard.

- Samples collected during Phase II ESA.

U - The compound was not detected at the indicated concentration.
J - Estimated value.
NJ - Tentative in identification and estimated in value.
D - Results obtained from a dilution.
NS- Not sampled.

TABLE 8
SUMMARY OF GROUNDWATER SAMPLING RESULTS
(VOCs and SVOCs)
REMEDIAL INVESTIGATION
FORMER S&S CLEANERS AND DYERS SITE
SITE # 401063
13 WILLOW STREET, COHOES, NEW YORK

Sample ID Sampling Date Matrix Units	NYSDEC Class GA Standard ug/L	MW-9		MW-10B		
		12/27/2012 WATER µg/L	11/12/2013 WATER µg/L	9/18/2013 WATER µg/L	DUP (9/18/2013) WATER µg/L	11/11/2013 WATER µg/L
VOCs						
1,1-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane		1 U	1 U	1 U	1 U	1 U
2-Butanone	50	5 UJ	5 UJ	5 UJ	5 UJ	13 J
Acetone	50	23 J	5 UJ	5 U	5 U	36 J
Benzene	1	1 U	1 U	1 U	1 U	1 U
Carbon Disulfide		1 U	1 U	2.4 J	1 UJ	1 U
Chlorobenzene	5	1 U	1 U	1 U	1 U	1 U
Chloroform	7	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U
Ethyl Benzene	5	1 U	1 U	1 U	1 U	1 U
m/p-Xylenes	5	1 U	1 U	1 U	1 U	1 U
Methylene Chloride	5	1 U	1 U	1 U	1 U	1 U
o-Xylene	5	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	5	8.6	5.4	1 U	1 U	1 U
Toluene	5	0.82 J	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U
Trichloroethene	5	4.2	6.3	1 U	1 U	1 U
Vinyl Chloride	2	1 UJ	1 U	1 U	1 U	1 U
SVOCs						
Di-n-butylphthalate	50	NS	NS	NS	NS	NS

Notes

- Concentration exceeds corresponding NYSDEC Class GA Standard.

- Samples collected during Phase II ESA.

U - The compound was not detected at the indicated concentration.
J - Estimated value.
NJ - Tentative in identification and estimated in value.
D - Results obtained from a dilution.
NS- Not sampled.

TABLE 8
SUMMARY OF GROUNDWATER SAMPLING RESULTS
(VOCs and SVOCs)
REMEDIAL INVESTIGATION
FORMER S&S CLEANERS AND DYERS SITE
SITE # 401063
13 WILLOW STREET, COHOES, NEW YORK

Sample ID Sampling Date Matrix Units	NYSDEC Class GA Standard ug/L	MW-11B		MW-12	
		9/18/2013 WATER µg/L	11/13/2013 WATER µg/L	8/28/2013 WATER µg/L	11/11/2013 WATER µg/L
VOCs					
1,1-Dichloroethene	5	1 U	1 U	1 U	1 U
1,2-Dichloropropane		1 U	1 U	1 U	1 U
2-Butanone	50	1 UJ	12 J	5 UJ	13 J
Acetone	50	5 U	33 J	5 U	30 J
Benzene	1	1 U	1 U	1 U	1 U
Carbon Disulfide		1 U	1 U	1 U	1 U
Chlorobenzene	5	1 U	1 U	1 U	1 U
Chloroform	7	0.56 J	1.0 U	1 U	1 U
cis-1,2-Dichloroethene	5	1 U	1 U	1 U	1.3
Ethyl Benzene	5	1 U	1 U	1 U	1 U
m/p-Xylenes	5	1 U	1 U	1 U	1 U
Methylene Chloride	5	1 U	1 U	1 U	1 U
o-Xylene	5	1 U	1 U	1 U	1 U
Tetrachloroethene	5	1 U	1 U	1 U	1 U
Toluene	5	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U
Trichloroethene	5	1 U	1 U	0.9 J	1 U
Vinyl Chloride	2	1 U	1 U	1 U	1 U
SVOCs					
Di-n-butylphthalate	50	NS	NS	NS	NS

Notes

- Concentration exceeds corresponding NYSDEC Class GA Standard.

- Samples collected during Phase II ESA.

U - The compound was not detected at the indicated concentration.
J - Estimated value.
NJ - Tentative in identification and estimated in value.
D - Results obtained from a dilution.
NS- Not sampled.

TABLE 9
SUMMARY OF GROUNDWATER SAMPLING RESULTS (Metals)
REMEDIAL INVESTIGATION
FORMER S&S CLEANERS AND DYERS SITE
SITE # 401063
13 WILLOW STREET, COHOES, NEW YORK

Sample ID	NYSDEC	MW-01			MW-02	
Sample Depth (feet)	Class GA					(MW-2 Duplicate)
Sampling Date	Standard	3/9/2009	11/18/2009	11/18/2009	3/9/2009	3/9/2009
Matrix	or Guidance Value	WATER	WATER	WATER	WATER	WATER
Filtered/Unfiltered		Unfiltered	Unfiltered	Filtered	Unfiltered	Unfiltered
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Metals						
Aluminum		2,090	82	21 J	4,710	5,830
Antimony	3	25 U	25 U	25 U	25 U	25 U
Arsenic	25	10 U	4.25 J	10 U	10 U	10 U
Barium	1,000	198	34.6 J	32.9 J	151	163
Beryllium	3	3 U	3 U	3 U	3 U	3 U
Cadmium	5	3 U	3 U	3 U	3 U	3 U
Calcium		81,800 J	154,000	155,000	45,700 J	51,000 J
Chromium	50	2.74 J	5 U	5 U	7.14	8.61
Cobalt		15 U	15 U	15 U	15 U	15 U
Copper	200	7.17 J	10 U	10 U	10.5	12.3
Iron	500**	4,470 J	178	53	8,990 J	11,100 J
Lead	25	6.63	8.37	6.3	15	18
Magnesium	35,000*	87,300 J	181,000	181,000	36,000 J	37,800 J
Manganese	500**	233 J	208	197	208 J	257 J
Mercury	0.7	0.2 U	0.2 U	0.12 J	0.2 U	0.2 U
Nickel	100	4.68 J	20 U	20 U	7.88 J	11.7 J
Potassium		4,170	4,490	4,400	5,480	6,130
Selenium	10	10 U	10 U	10 U	8.14 J	7.46 J
Silver	50	5 U	5 U	5 U	5 U	5 U
Sodium	20,000	126,000	268,000	273,000	90,700	96,800
Thallium	0.5*	20 U	6.43 J	5.16 J	20 U	20 U
Vanadium		20 U	20 U	20 U	9.41 J	10.7 J
Zinc	2,000*	18.4 J	65.7	58.2	33	38

Notes

- Concentration exceeds corresponding NYSDEC Class GA Standard.
- Sampes collected during Phase II ESA.

U - The compound was not detected at the indicated concentration.
J - Estimated value.
B - Analyte detected in the method blank.
*Guidance Value.
**Applies to the sum of these compounds.

TABLE 9
SUMMARY OF GROUNDWATER SAMPLING RESULTS (Metals)
REMEDIAL INVESTIGATION
FORMER S&S CLEANERS AND DYERS SITE
SITE # 401063
13 WILLOW STREET, COHOES, NEW YORK

Sample ID	NYSDEC	MW-02				MW-03		
Sample Depth (feet)	Class GA		(MW-2 Duplicate)		(MW-2 Duplicate)			
Sampling Date	Standard	11/18/2009	11/18/2009	11/18/2009	11/18/2009	3/9/2009	11/19/2009	11/19/2009
Matrix	or Guidance Value	WATER	WATER	WATER	WATER	WATER	WATER	WATER
Filtered/Unfiltered		Unfiltered	Unfiltered	Filtered	Filtered	Unfiltered	Unfiltered	Filtered
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Metals								
Aluminum		25 J	12 J	13 J	14 J	945	70	21 J
Antimony	3	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Arsenic	25	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Barium	1,000	71	71	72	69	176	94	88
Beryllium	3	3 U	3 U	3 U	3 U	3 U	3 U	3 U
Cadmium	5	3 U	3 U	3 U	3 U	3 U	3 U	3 U
Calcium		35,800	35,900	37,000	36,300	136,000 J	125,000	121,000
Chromium	50	5 U	5 U	14.6	5 U	1 J	5 U	5 U
Cobalt		15 U	15 U	15 U	15 U	15 U	15 U	15 U
Copper	200	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Iron	500**	67	57	109 J	30 J	1,770 J	148	40 J
Lead	25	5 J	5 J	5 J	6 J	7	12	10
Magnesium	35,000*	31,000	31,300	32,100	31,600	85,800 J	77,600	75,800
Manganese	500**	121	116	115	108	862 J	1,110	1,080
Mercury	0.7	0.2 U	0.13 J	0.12 J	0.13 J	0.20 U	0.10 J	0.20 U
Nickel	100	20 U	20 U	5.23 J	20 U	20 U	20 U	20 U
Potassium		1,970	1,950	1,970	1,870	2,540	807 J	790 J
Selenium	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Silver	50	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Sodium	20,000	79,600	78,700	81,400	78,900	72,200	52,300	50,700
Thallium	0.5*	20 U	20 U	20 U	2.89 J	20 U	20 U	20 U
Vanadium		20 U	20 U	20 U	20 U	20 U	20 U	20 U
Zinc	2,000*	49 J	20 UJ	44	46	16.9 J	38.8	27.6

Notes

- Concentration exceeds corresponding NYSDEC Class GA Standard.

- Sampes collected during Phase II ESA.

U - The compound was not detected at the indicated concentration.
J - Estimated value.
B - Analyte detected in the method blank.
*Guidance Value.
**Applies to the sum of these compounds.

TABLE 9
SUMMARY OF GROUNDWATER SAMPLING RESULTS (Metals)
REMEDIAL INVESTIGATION
FORMER S&S CLEANERS AND DYERS SITE
SITE # 401063
13 WILLOW STREET, COHOES, NEW YORK

Sample ID	NYSDEC	MW-04			MW-05		
Sample Depth (feet)	Class GA						
Sampling Date	Standard	3/9/2009	11/18/2009	11/18/2009	3/9/2009	11/19/2009	11/19/2009
Matrix	or Guidance Value	WATER	WATER	WATER	WATER	WATER	WATER
Filtered/Unfiltered		Unfiltered	Unfiltered	Filtered	Unfiltered	Unfiltered	Filtered
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Metals							
Aluminum		1,150	14 J	50 U	154,000	97,000	6,840
Antimony	3	25 U	25 U	25 U	25 U	25 U	25 U
Arsenic	25	10 U	10 U	10 U	43.3	35.1	8.03 J
Barium	1,000	64.9	57.5	55.5	1,560	931	300
Beryllium	3	3 U	3 U	3 U	11.4	5.56	3 U
Cadmium	5	3 U	3 U	3 U	12.5	10.8	3 U
Calcium		134,000 J	70,200	69,400	685,000 J	425,000	128,000
Chromium	50	2.33 J	5 U	3.65 J	183	119	6.97
Cobalt		15 U	15 U	15 U	134	98.6	15 U
Copper	200	10 U	10 U	10 U	307	151	13
Iron	500**	2300 J	24 J	38.9 J	312,000 J	192,000	13,500
Lead	25	5.92 J	5.58 J	4.49 J	195	162	20.5
Magnesium	35,000*	162,000 J	93,700	90,800	222,000 J	156,000	89,400
Manganese	500**	270 J	161	170	10600 J	6480	822
Mercury	0.7	0.2 U	0.2 U	0.2 U	0.3	0.26	0.1 J
Nickel	100	20 U	20 U	20 U	283	206	14.2 J
Potassium		5,880	2,960	2,890	19,200	13,600	6,390
Selenium	10	5.35 J	12.6	7.92 J	10 U	10 U	10 U
Silver	50	5 U	5 U	5 U	5 U	5 U	5 U
Sodium	20,000	80,200	25,400	24,600	188,000	387,000	398,000
Thallium	0.5*	20 U	4.05 J	3.73 J	20 U	4.29 J	5.21 J
Vanadium		20 U	20 U	20 U	237	142	11.2 J
Zinc	2,000*	13.4 J	49.6	40.2	743	505	39

Notes

- Concentration exceeds corresponding NYSDEC Class GA Standard.
- Sampes collected during Phase II ESA.

U - The compound was not detected at the indicated concentration.
J - Estimated value.
B - Analyte detected in the method blank.
*Guidance Value.
**Applies to the sum of these compounds.

TABLE 9
SUMMARY OF GROUNDWATER SAMPLING RESULTS (Metals)
REMEDIAL INVESTIGATION
FORMER S&S CLEANERS AND DYERS SITE
SITE # 401063
13 WILLOW STREET, COHOES, NEW YORK

Sample ID	NYSDEC	MW-07	MW-08	
Sample Depth (feet)	Class GA			DUP
Sampling Date	Standard	10/4/2012	10/1/2012	10/1/2012
Matrix	or Guidance Value	WATER	WATER	WATER
Filtered/Unfiltered		Unfiltered	Unfiltered	Unfiltered
Units	ug/L	ug/L	ug/L	ug/L
Metals				
Aluminum		123 B	72 B	66 U
Antimony	3	9.3 U	11.4 B	13.5 B
Arsenic	25	4.3 U	4.3 U	4.3 U
Barium	1,000	60.8 B	52.4 B	51.4 B
Beryllium	3	0.26 U	0.26 U	0.26 U
Cadmium	5	0.89 U	0.89 U	0.89 U
Calcium		101,000	64,400	63,300
Chromium	50	0.64 U	3.7 B	3.9 B
Cobalt		0.67 U	0.67 U	0.67 U
Copper	200	3.6 U	3.6 U	4.1 B
Iron	500**	218	101 B	88.3 B
Lead	25	4.2 U	4.2 U	4.2 U
Magnesium	35,000*	99,600	16,100	15,700
Manganese	500**	92.7	28.9 B	25.3 B
Mercury	0.7	0.028 U	0.028 U	0.028 U
Nickel	100	1.70 B	0.86 B	0.85 U
Potassium		5,340 J	7,550 J	7,380 J
Selenium	10	12 U	12 U	12 U
Silver	50	6.9 U	6.9 U	6.9 U
Sodium	20,000	100,000	42,000	140,000
Thallium	0.5*	6.2 U	6.2 U	6.2 U
Vanadium		1.1 U	2.8 B	3.1 B
Zinc	2,000*	7.7 B	6.6 B	8.9 B

Notes

- Concentration exceeds corresponding NYSDEC Class GA Standard.

- Sampes collected during Phase II ESA.

U - The compound was not detected at the indicated concentration.
J - Estimated value.
B - Analyte detected in the method blank.
*Guidance Value.
**Applies to the sum of these compounds.

TABLE 10
SUMMARY OF GROUNDWATER SAMPLING RESULTS (Pesticides/PCBs)
REMEDIAL INVESTIGATION
FORMER S&S CLEANERS AND DYERS SITE
SITE # 401063
13 WILLOW STREET, COHOES, NEW YORK

Sample ID Sampling Date Matrix Units	NYSDEC Class GA Standard ug/L	MW-7 10/4/2012 WATER µg/L	MW-8 10/1/2012 WATER µg/L	 DUP (10/1/2012) WATER µg/L
Pesticides				
4,4'-DDD	0.3	0.1 U	0.1 U	0.1 U
4,4'-DDE	0.2	0.1 U	0.1 U	0.1 U
4,4'-DDT	0.2	0.1 U	0.1 U	0.1 U
Aldrin	ND	0.05 U	0.05 U	0.05 U
alpha-BHC	0.01	0.05 U	0.05 U	0.05 U
Chlordane (alpha)	0.05	0.05 U	0.05 UJ	0.05 U
beta-BHC	0.04	0.05 U	0.05 U	0.05 U
delta-BHC	0.04	0.05 U	0.05 U	0.05 U
Dieldrin	0.004	0.1 U	0.1 U	0.1 U
Endosulfan I		0.05 U	0.05 U	0.05 U
Endosulfan II		0.1 U	0.1 U	0.1 U
Endosulfan sulfate		0.1 U	0.1 U	0.1 U
Endrin	ND	0.1 U	0.1 U	0.1 U
Endrin aldehyde	5	0.1 U	0.1 U	0.1 U
Endrin ketone	5	0.1 U	0.1 U	0.1 U
gamma-BHC (lindane)	0.05	0.05 U	0.05 U	0.05 U
gamma-Chlordane	0.05	0.05 U	0.05 UJ	0.05 U
Heptachlor	0.04	0.05 U	0.05 U	0.05 U
Heptachlor epoxide	0.03	0.05 U	0.05 U	0.05 U
Methoxychlor	35	0.5 U	0.5 U	0.5 U
Toxaphene	0.06	5 U	5 U	5.0 U
PCBs				
Aroclor-1016	0.09*	1 U	1 U	1 U
Aroclor-1221	0.09*	1 U	1 U	1 U
Aroclor-1232	0.09*	1 U	1 U	1 U
Aroclor-1242	0.09*	1 U	1 U	1 U
Aroclor-1248	0.09*	1 U	1 U	1 U
Aroclor-1254	0.09*	1 U	1 U	1 U
Aroclor-1260	0.09*	1 U	1 U	1 U

Notes
- Concentration exceeds corresponding NYSDEC Class GA Standard.

U - The compound was not detected at the indicated concentration.
J - Estimated value.
*Appies to the sum of these compounds.
ND - Non-detectable concentration by the approved analytical methods.

TABLE 11
SUMMARY OF AIR SAMPLING RESULTS
REMEDIAL INVESTIGATION
FORMER S&S CLEANERS AND DYERS SITE
SITE # 401063
13 WILLOW STREET, COHOES, NEW YORK

Sample ID	AA-1	13WAA	13WAA2	AA	Ambient Air 2	AA-010913	SV-01			SV-02	SV-03	SV-04	SV-05		SV-06		SV-07		
Sample Type	Ambient Air	Ambient Air	Ambient Air	Ambient Air	Ambient Air	Ambient Air	Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas	DUP	Soil Gas	Soil Gas	Soil Gas	Soil Gas	DUP
Date	2/16/2009	11/18/2009	11/18/2009	5/26/2010	10/5/2012	1/9/2013	2/16/2009	5/26/2010	10/5/2012	10/5/2012	3/17/2009	3/17/2009	2/16/2009	2/16/2009	2/16/2009	10/5/2012	3/17/2009	10/5/2012	10/5/2012
Units	µg/m^3	µg/m^3	µg/m^3	µg/m^3	µg/m^3	µg/m^3	µg/m^3	µg/m^3	µg/m^3	µg/m^3	µg/m^3	µg/m^3	µg/m^3	µg/m^3	µg/m^3	µg/m^3	µg/m^3	µg/m^3	µg/m^3
VOCs																			
Acetone	5.3	8.5	19	37	18	9.9 J	41	46	95 U	20	9.8 UJ	77 J	28 R	10 J	14	95 U	37 J	9.5 UJ	17 J
Benzene	0.41	1.1	1.6	0.56	0.77	0.8	0.7	0.81	0.98 U	1.2	0.81 J	0.94 J	0.87 R	0.53 J	2.4	3.2 U	1.4 J	1.1	0.91
Bromodichloromethane	0.24 U	0.27 U	0.27 U	0.24 U	0.67 U	0.24 U	0.66 U	0.67 U	6.7 U	0.67 U	0.66 UJ	0.66 UJ	0.66 R	0.66 UJ	1.7 U	6.7 U	0.66 UJ	0.67 U	0.67 U
Bromoform	0.36 U	0.41 U	0.41 U	0.36 U	1 U	0.36 U	1.1	1 U	10 U	1 U	1.1 UJ	1.1 UJ	1.1 R	1.1 UJ	2.6 U	10 U	1.1 UJ	1 U	1 U
Bromomethane	0.14 U	0.16 U	0.16 U	0.14 U	0.39 U	0.14 U	0.38 U	0.39 U	3.9 U	0.39 U	0.38 UJ	0.38 UJ	0.38 R	0.38 UJ	0.95 U	3.9 U	0.38 UJ	0.39 U	0.39 U
1,3-Butadiene	0.08 U	0.088 U	0.31 NJ	0.078 U	0.22 U	0.078 U	0.22 U	0.22 U	2.2 U	0.22 U	0.22 UJ	0.22 UJ	0.22 R	0.22 UJ	0.55 U	2.2 U	0.22 UJ	0.22 U	0.22 U
2-Butanone (MEK)	1.3	1.8 U	2.9 U	7.5	12 U	4.1 U	49	5.5	120 U	12 U	1.2 UJ	6.1 J	4.6 R	1.8 J	1.6	120 U	7.8 J	12 U	12 U
Carbon Disulfide	0.12 U	0.12 U	0.12 U	0.2	3.1 U	1.1 U	0.5	1.6	31 U	7.4	0.32 UJ	0.32 UJ	0.32 R	0.32 UJ	0.8 U	31 U	0.89 J	3.1 U	3.1 U
Carbon Tetrachloride	0.66	0.45	0.44	0.45	0.63 U	0.42	0.62 U	0.63 U	6.3 U	0.63 U	0.62 UJ	0.62 UJ	0.62 R	0.62 UJ	1.6 U	6.3 U	0.62 UJ	0.63 U	0.63 U
Chloroform	0.17 U	0.2 U	0.26	0.17 U	0.49 U	0.17 U	0.48 U	0.49 U	12	1.4	0.48 UJ	0.48 UJ	0.58 R	0.48 UJ	4.6	25	0.48 UJ	0.49 U	0.49 U
Chloromethane	0.99	1.8	2	1.3	0.95	1.2	1.1	1.2	2.1 NJ	0.93	1.7 J	2.2 J	0.93 R	1.1 J	0.5 U	2.1 U	2.1 J	0.87	0.89 NJ
Cyclohexane	0.12 U	0.32 NJ	0.48	0.12 U	0.34 U	0.12 U	0.34 U	0.47	3.4 U	0.34 U	0.34 UJ	1.5 J	3.1 R	0.34 UJ	11	3.4 U	0.34 UJ	0.34 U	0.34 U
1,3-Dichlorobenzene	0.21 U	7.8	2.9	0.29	0.6 U	0.21 U	0.6 U	0.6 U	6 U	0.6 U	0.6 UJ	0.6 UJ	0.6 R	0.6 UJ	1.5 U	6 U	0.6 UJ	0.6 U	0.6 U
1,4-Dichlorobenzene	0.21 U	0.24 U	0.24 U	0.21 U	0.6 U	0.21 U	0.6 U	0.6 U	6 U	0.6 U	0.6 UJ	0.6 UJ	0.6 R	0.6 UJ	1.5 U	6 U	0.6 UJ	0.6 U	0.6 U
Dichlorodifluoromethane	2.5	1.7	2	2.2	2.2	1.7	2.5	2.3	4.9 U	2.2	2.3 J	2.1 J	2.3 R	2.3 J	2.4	4.9 U	1.9 J	2.2	2.3
1,1-Dichloroethane	0.14 U	0.16 U	0.16 U	0.14 U	0.4 U	0.14 U	0.4 U	0.4 U	4 U	0.4 U	0.4 UJ	0.4 UJ	0.4 R	0.4 UJ	1 U	4 U	0.4 UJ	0.4 U	0.4 U
1,2-Dichloroethane	0.14 U	0.16 U	0.16 U	0.14 U	0.4 U	0.14 U	0.4 U	0.4 U	4 U	0.4 U	0.4 UJ	0.4 UJ	0.4 R	0.4 UJ	1 U	4 U	0.4 UJ	0.4 U	0.4 U
1,1-Dichloroethylene					0.4 U	0.14 U			4 U	0.4 U						4 U		0.4 U	0.4 U
cis-1,2-Dichloroethylene	0.14 U	0.16 U	0.16 U	0.14 U	0.4 U	0.14 U	0.4 U	0.4 U	72	0.4 U	0.4 UJ	0.4 UJ	27 R	10 J	220	72	0.4 UJ	1.9 J	0.4 UJ
trans-1,2-Dichloroethylene	0.14 U	0.16 U	0.16 U	0.14 U	0.4 U	0.14 U	0.4 U	0.4 U	4 U	0.4 U	0.4 UJ	0.4 UJ	0.56 R	0.4 UJ	3.9	4 U	0.4 UJ	0.4 U	0.4 U
1,4-Dioxane	NS	NS	NS	NS	NS	1.7	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Ethanol	2.4	58 J	57 J	8.8	7.5 U	6 J	2.9	8.2	75 U	7.5 U	8.9 UJ	65 J	13 R	6 J	3.1	75 U	22 J	7.5 U	15 J
Ethyl Acetate	0.26 U	0.3	0.45	0.13 U	0.36 U	0.6	0.73 U	0.36 U	3.6 U	1.3 U	0.73 UJ	1.9 J	0.73 R	0.73 UJ	1.9 U	3.6 U	0.73 UJ	1.8 NJ	3.4 NJ
Ethylbenzene	0.16 U	1.4	0.85	0.35	0.46	0.2	0.44 U	0.64	4.3 U	0.53	0.44 UJ	3.5 J	0.46 R	0.44 UJ	1.1 U	4.3 U	1.3 J	0.68	0.7
4-Ethyl Toluene	0.18 U	0.57	0.35	0.18	0.49 U	0.17 U	0.5 U	0.49 U	4.9 U	0.49 U	0.5 UJ	0.5 UJ	0.5 R	0.5 UJ	1.3 U	4.9 U	0.88 J	0.49 U	0.49 U
n-Heptane	0.14 U	0.6	0.57	0.41	0.52	0.26	0.4 U	3.4	4.1 U	0.81	0.5 UJ	1.5 J	0.51 R	0.4 UJ	1 U	4.1 U	1.2 J	0.78	0.69
Hexane	0.36	1.5	1.7	1.6	14 U	4.9 U	0.56	1.8	140 U	14 U	1.1 J	5.2 J	6.8 R	2.5 J	0.9 U	140 U	2.2 J	14 U	14 U
2-Hexanone	0.27	0.16 UJ	0.33 J	1.8	0.41 U	0.14 U	0.68	1.3	4.1 U	0.41 U	0.4 UJ	0.52 J	1 R	0.4 UJ	1 U	4.1 U	1.7 J	0.41 U	0.41 U
Isopropanol	0.39	55	60	1.4	9.8 U	3.4 U	1.1	1.3	98 U	9.8 U	1.3 J	12 J	4.5 R	1.8 J	1.3 U	98 U	3.4 J	9.8 U	9.8 U
Methyl tert-Butyl Ether (MTBE)	0.13 U	0.14 U	0.14 U	0.13 U	0.36 U	0.13 U	0.36 U	0.36 U	3.6 U	0.4	0.36 UJ	0.36 UJ	0.36 R	0.36 UJ	0.9 U	3.6 U	0.36 UJ	0.36 U	0.36 U
Methylene Chloride	0.58	2.5 U	1.9 U	3.1	3.5 U	1.2 U	1.1	0.69 U	35 U	3.5 U	3.7 J	22 J	51 R	28 J	6.1	35 U	5.6 J	3.5 U	3.5 U
4-Methyl-2-Pentanone (MIBK)	0.14 U	0.16 U	0.16 U	0.14 U	0.41 U	0.14 U	0.72	0.41 U	4.1 U	0.41 U	0.4 UJ	0.93 J	0.4 R	0.4 UJ	1 U	4.1 U	0.79 J	0.41 U	0.41 U
Naphthalene	NS	NS	NS	NS	NS	0.18 UJ	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Styrene	0.15 U	0.17 U	0.17 U	0.15 U	0.43 U	0.15 U	0.42 U	0.43 U	4.3 U	0.43 U	0.42 UJ	0.71 J	0.42 R	0.42 UJ	1.7 U	4.3 U	0.42 UJ	0.43 U	0.43 U
Tetrachloroethylene	0.24 U	0.51	2.2	1.6	0.68 U	0.24 U	3.2	23	120,000	2	0.68 UJ	0.68 UJ	1,800 R	790 J	14,000	11,000	7.9 J	210 J	23 J
Tetrahydrofuran	0.11 U	0.2	0.27	0.84	0.29 U	0.1 U	4.6	0.29 U	2.9 U	0.29 U	0.3 UJ	0.66 J	0.3 R	0.3 UJ	0.75 U	2.9 U	0.44 J	0.29 U	0.29 U
Toluene	0.43	5.5	6.4	2.9	2.9	0.98	2.3	5	3.8 U	4.3	4.5 J	14 J	3.8 R	1 J	0.95 U	3.8 U	6.9 J	4.2	4
1,1,1-Trichloroethane	0.19 U	0.22 U	0.22 U	0.19 U	0.55 U	0.19 U	0.54 U	0.55 U	120	0.55 U	0.54 UJ	0.54 UJ	0.54 R	0.54 UJ	1.4 U	5.5 U	0.54 UJ	0.55 U	0.55 U
1,1,2-Trichloroethane	0.19 U	0.22 U	0.22 U	0.19 U	0.55 U	0.19 U	0.54 U	0.55 U	5.5 U	0.55 U	0.54 UJ	0.54 UJ	0.54 R	0.54 UJ	2.3	5.5 U	0.54 UJ	0.55 U	0.55 U
Trichloroethylene	0.19 U	0.21 U	0.21 U	0.19 U	0.54 U	0.19 U	0.54 U	0.54 U	1,200	0.54 U	0.54 UJ	0.54 UJ	50 R	21 J	370	230	0.54 UJ	2.3 J	0.54 UJ
Trichlorofluoromethane	1.6	2.1	2.2	1.3	1.4	1.5	1.4	1.3	69	1.3	1.1 J	1.7 J	7 R	3.3 J	48	120	1 J	1.6	1.4
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.75	0.72	0.77	0.51	0.77 U	0.67	0.76 U	0.77 U	7.7 U	0.77 U	0.76 UJ	0.76 UJ	0.76 R	0.76 UJ	1.9 U	7.7 U	0.76 UJ	0.77 U	0.77 U
1,2,4-Trimethylbenzene	0.24	2.8	1.8	0.6	0.49 U	0.18	0.5 U	0.75	4.9 U	0.55	0.5 UJ	0.71 J	0.56 R	0.5 UJ	1.3 U	4.9 U	1.6 J	0.65	0.49
1,3,5-Trimethylbenzene	0.18 U	0.47	0.33	0.33	0.49 U	0.17 U	0.5 U	0.49 U	4.9 U	0.49 U	0.5 UJ	0.5 UJ	0.5 R	0.5 UJ	1.3 U	4.9 U	0.5 UJ	0.49 U	0.49 U
m/p-Xylene	0.33	5.4	2.8	1.2	1.4	0.57	1.1	2.1	8.7 U	1.8	0.98 J	13 J	1.2 R	0.86 UJ	2.2 U	8.7 U	4.2 J	2.3	2.2
o-Xylene	0.16	1.9	1	0.47	0.52	0.22	0.44 U	0.67	4.3 U	0.56	0.44 UJ	2.4 J	0.45 R	0.44 UJ	1.1 U	4.3 U	1.4 J	0.69	0.71

Notes:
Blue - Samples collected during Phase II ESA.
Yellow - Mitigation required based on NYSDOH requirements.
Orange - Mitigation potentially required based on NYSDOH requirements.
U - Compound not detected above listed concentration.
J - Estimated value.
N - Tentative identification.
NS - Not sampled.

TABLE 11
SUMMARY OF AIR SAMPLING RESULTS
REMEDIAL INVESTIGATION
FORMER S&S CLEANERS AND DYERS SITE
SITE # 401063
13 WILLOW STREET, COHOES, NEW YORK

Sample ID	SV-08	SV-09		SV-10		SV-12	SV-13	SV-15	17WBA	17WIA	9W-SS	9W-BA	9W-X (9W-BA)	19W-SS	19W-BA	19W-IA	21W-BA	Dup (21W-BA)
Sample Type	Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas	Basement Air	1st Floor Air	Sub-Slab Air	Basement Air	Basement Air	Sub-Slab Air	Basement Air	Basement Air	Basement Air	Basement Air
Date	5/26/2010	5/26/2010	10/5/2012	5/26/2010	10/5/2012	1/9/2013	1/9/2013	1/9/2013	11/18/2009	11/18/2009	11/18/2009	11/18/2009	11/18/2009	5/26/2010	5/26/2010	11/15/2010	5/26/2010	5/26/2010
Units	µg/m^3	µg/m^3	µg/m^3	µg/m^3	µg/m^3	µg/m^3	µg/m^3	µg/m^3	µg/m^3	µg/m^3	µg/m^3	µg/m^3	µg/m^3	µg/m^3	µg/m^3	µg/m^3	µg/m^3	µg/m^3
VOCs																		
Acetone	33 J	39	95 U	23	16	50 J	12 UJ	22 UJ	10 U	14 NJ	17 NJ	66	66 U	22	41	19	38	29
Benzene	6.3	3.2 U	3.2 U	0.38	0.32 U	1.1	1.9	1.9	0.94	1.3	0.47	1.6	1.6	0.37	1.3	1.6	0.98	0.96
Bromodichloromethane	6.7 U	6.7 U	6.7 U	0.67 U	0.67 U	0.67 U	0.67 U	0.67 U	0.47 U	0.27 U	0.27 U	0.27 U	0.27 U	0.67 U	0.24 U	0.24 U	0.24	0.24
Bromoform	10 U	10 U	10 U	1 U	1 U	1 U	1 U	1 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	1 U	0.36 U	0.36 U	0.36	0.36
Bromomethane	3.9 U	3.9 U	3.9 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.39 U	0.14 U	0.14 U	0.14	0.14
1,3-Butadiene	2.2 U	2.2 U	2.2 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.30	0.32	0.088 U	0.29 NJ	0.22 NJ	0.22 U	0.078 U	0.078 U	0.078	0.078
2-Butanone (MEK)	4.1	4.3	120 U	3.2	12 U	12 U	12 U	12 U	1.4 U	2.5 U	2.9 U	2.1 U	2.4 U	3.2	4.9	2.5	3.3 J	1.6 J
Carbon Disulfide	15	4.4	31 U	47	3.1 U	14	14	5	0.12 U	0.12 U	1.9	0.12 U	0.12 U	0.31 U	0.42	0.11 U	0.29	0.3
Carbon Tetrachloride	6.3 U	6.3 U	6.3 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.39	0.41	0.39	0.42	0.45	0.63 U	0.5	0.46	0.49	0.51
Chloroform	12	12	18	11	20	0.56	1.7	0.49 U	4.7	2.6	6.5	2	2	36	2.2	2	3.4	3.6
Chloromethane	2.1 U	2.1 U	2.1 U	0.33	0.43 U	0.21 U	0.21 U	0.21 U	1.2	1.6	0.95 NJ	1.7	1.6	0.21 U	0.6	0.81	0.64	0.58
Cyclohexane	3.4 U	3.4 U	3.4 U	0.34 U	0.34 U	0.59	1.3	1.1	0.39 NJ	0.48	3.6	0.8	0.78	0.34 U	0.95	0.59	0.12 U	0.12 U
1,3-Dichlorobenzene	6 U	6 U	6 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.6 U	0.21 U	0.21 U	0.21 U	0.21 U
1,4-Dichlorobenzene	6 U	6 U	6 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	0.26	0.24 U	0.24 U	0.24 U	0.24 U	0.6 U	0.3	0.21 U	0.21 U	0.31
Dichlorodifluoromethane	4.9 U	4.9 U	4.9 U	2.7	2.2	1.6	2.2	2.1	2.1	2.1	1.8	1.7	2	2.5	2.3	1.4	2.3	2.3
1,1-Dichloroethane	4 U	4 U	4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.4 U	0.14 U	0.14 U	0.14	0.14 U
1,2-Dichloroethane	4 U	4 U	4 U	0.54	0.4 U	0.4 U	0.4 U	0.4 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.4 U	0.14 U	0.14 U	0.14 U	0.14 U
1,1-Dichloroethylene			4 U		0.4 U	0.4 U	0.4 U	0.4 U								0.14 U		
cis-1,2-Dichloroethylene	58	370	250	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.91	0.43	0.16 U	0.16 U	0.16 U	0.4 U	0.14 U	0.14 U	0.14 U	0.14 U
trans-1,2-Dichloroethylene	4 U	4 U	4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.4 U	0.14 U	0.14 U	0.14 U	0.14 U
1,4-Dioxane	NS	NS	NS	NS	NS	0.36 U	0.36 U	0.36 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Ethanol	19 U	24	75 U	4.5	7.5 U	7.5 U	13 J	7.5 U	2.7 J	6.9 J	5.6 J	16 J	13 J	4.7	7.5	33	4.5	3.4
Ethyl Acetate	3.6 U	3.6 U	3.6 U	0.36 U	0.36 U	0.36 U	0.36 U	2	0.14 U	0.14 U	0.14 U	0.61	0.59	0.36 U	0.13 U	0.13 U	0.67	0.57
Ethylbenzene	4.3 U	4.3 U	4.3 U	0.43 U	0.43 U	22	11	8.9	0.39	0.63	0.39	0.62	0.57	0.43 U	0.73	0.8	0.61	0.6
4-Ethyl Toluene	4.9 U	4.9 U	4.9 U	0.49 U	0.49 U	8.4	8.7	7.5	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.49 U	0.43 NJ	0.37	0.27 NJ	0.29 NJ
n-Heptane	4.1 U	4.1 U	4.1 U	1.1	0.41 U	1.9	2.9	2.6	0.3	0.47	0.27	4.1 J	1.5 J	0.63	1.5	0.96	2.5 J	0.94 J
Hexane	3.5 U	3.5 U	140 U	0.84	14 U	14 U	14 U	14 U	1.3	1.7	0.47	2.8	2.8	1.1	3	2.2	2.9	2
2-Hexanone	4.1 U	4.1 U	4.1 U	0.85	0.7	0.97	0.1 U	0.95	0.28 J	0.27 J	0.43 J	0.16 UJ	0.68 J	0.83	1.3	0.39	0.78 J	0.14 UJ
Isopropanol	2.5 U	2.5 U	98 U	0.86	9.8 U	9.8 U	9.8 U	9.8 U	0.83	4.1	0.73	1.1	0.93	1.1	1.5	1.6	0.086 U	0.086 U
Methyl tert-Butyl Ether (MTBE)	3.6 U	3.6 U	3.6 U	0.46	0.36 U	0.36 U	0.36 U	0.36 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.36 U	0.13 U	0.13 U	0.13 U	0.13 U
Methylene Chloride	6.9 U	6.9 U	35 U	0.69 U	3.5 U	3.5 U	3.5 U	3.5 U	1.1 U	0.97 U	0.56 U	1.6 U	1.5 U	0.69 U	1.4	1.8	2.5 J	1.1 J
4-Methyl-2-Pentanone (MIBK)	4.1 U	4.1 U	4.1 U	0.41 U	0.41 U	0.66	0.41 U	0.74	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.41 U	0.14 U	0.14 U	0.14 U	0.14 U
Naphthalene	NS	NS	NS	NS	NS	1.7 J	2.2 J	1.8 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Styrene	4.3 U	4.3 U	4.3 U	0.43 U	0.43 U	0.16 NJ	0.77	0.17 NJ	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.43 U	0.3	0.19	0.2	0.26
Tetrachloroethylene	140,000	64,000	57,000	32	20	1	6	3	77	37	160	16	15	430	5	2	4	3.9
Tetrahydrofuran	2.9 U	2.9 U	2.9 U	0.29 U	0.29 U	11	5.7	4.4	0.14	0.22	0.54	0.13	0.12 U	0.29 U	0.83	0.56	0.65	0.76
Toluene	3.8 U	3.8 U	3.8 U	1.5	0.41	28	33	30	3.2	5.3	2	7.8	5.6	2.6	7.1	5.8	6.3	5.8
1,1,1-Trichloroethane	190	9.9	13	0.6	0.69	0.55 U	0.55 U	0.55 U	0.22 U	0.22 U	0.31	0.22 U	0.22 U	0.55 U	0.19 U	0.19 U	0.19 U	0.19 U
1,1,2-Trichloroethane	5.5 U	5.5 U	5.5 U	0.55 U	0.55 U	0.55 U	0.55 U	0.55 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.55 U	0.19 U	0.19 U	0.19 U	0.19 U
Trichloroethylene	1200	1700	1600	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U	1.6	0.85	0.23	0.46	0.5	5.1	0.19 U	0.19 U	0.19 U	0.19 U
Trichlorofluoromethane	93	110	260	2	2	0.64	0.67	0.91	2.7	2.3	2.1	2.6	2.3	2.3	2.3	1.4	2.3	2.2
1,1,2-Trichloro-1,2,2-Trifluoroethane	7.7 U	7.7 U	7.7 U	0.77 U	0.77 U	0.77 U	0.77 U	0.77 U	0.69	0.71	0.78	1.1	0.67	0.77 U	0.61	0.59	0.63	0.63
1,2,4-Trimethylbenzene	4.9 U	4.9 U	4.9 U	0.49 U	0.49 U	27	31	27	0.55	0.29	0.99	0.74	0.71	0.49 U	1.7	1.3	0.78	1.1
1,3,5-Trimethylbenzene	4.9 U	4.9 U	4.9 U	0.49 U	0.49 U	8.2	8.3	7.1	0.2 U	0.2 U	0.25	0.2 U	0.2 U	0.49 U	0.54	0.38	0.33	0.4
m/p-Xylene	8.7 U	8.7 U	8.7 U	0.87 U	0.87 U	50	38	35	1.1	1..5	1.7	1.9	1.6	1.1	2.4	2.6	2	2
o-Xylene	4.3 U	4.3 U	4.3 U	0.43 U	0.43 U	27	17	14	0.46	0.41	1.3	0.67	0.6	0.43 U	0.88	0.95	0.72	0.76

Notes:
Blue - Samples collected during Phase II ESA.
Yellow - Mitigation required based on NYSDOH requirements.
Orange - Mitigation potentially required based on NYSDOH requirements.
U - Compound not detected above listed concentration.
J - Estimated value.
N - Tentative identification.
NS - Not sampled.

TABLE 11
SUMMARY OF AIR SAMPLING RESULTS
REMEDIAL INVESTIGATION
FORMER S&S CLEANERS AND DYERS SITE
SITE # 401063
13 WILLOW STREET, COHOES, NEW YORK

Sample ID	8W-SS-1		8W-DUP		8W-BA-1	
Sample Type	Sub-Slab Air		Sub-Slab Air		Basement Air	
Date	1/10/2013		1/10/2013		1/10/2013	
Units	µg/m^3		µg/m^3		µg/m^3	
VOCs						
Acetone	25	UJ	23	UJ	28	J
Benzene	1.8		0.32	U	1.1	
Bromodichloromethane	0.67	U	0.67	U	0.24	U
Bromoform	1	U	1	U	0.36	U
Bromomethane	0.39	U	0.39	U	0.14	U
1,3-Butadiene	0.22	U	0.22	U	0.078	U
2-Butanone (MEK)	12	U	12	U	4.1	U
Carbon Disulfide	3.1	U	3.1	U	1.1	U
Carbon Tetrachloride	0.63	U	0.63	U	0.44	
Chloroform	1.1		0.49	U	1.5	
Chloromethane	1	NJ	0.21	U	0.53	NJ
Cyclohexane	0.45		0.34	U	0.12	U
1,3-Dichlorobenzene	0.6	U	0.6	U	0.21	U
1,4-Dichlorobenzene	0.6	U	0.6	U	0.22	
Dichlorodifluoromethane	2.7		2.3		1.6	
1,1-Dichloroethane	0.4	U	0.4	U	0.14	U
1,2-Dichloroethane	0.4	U	0.4	U	0.14	U
1,1-Dichloroethylene	0.4	U	0.4	U	0.14	U
cis-1,2-Dichloroethylene	0.4	U	0.4	U	0.14	U
trans-1,2-Dichloroethylene	0.4	U	0.4	U	0.14	U
1,4-Dioxane	0.36	U	0.36	U	0.13	U
Ethanol	53	J	7.5	U	44	J
Ethyl Acetate	2.4		3.4		12	
Ethylbenzene	0.93		0.43	U	0.61	
4-Ethyl Toluene	0.49	U	0.49	U	0.18	
n-Heptane	0.8		0.41	U	0.42	
Hexane	14	U	14	U	4.9	U
2-Hexanone	0.41	U	0.48		0.3	
Isopropanol	9.8	U	9.8	U	3.4	U
Methyl tert-Butyl Ether (MTBE)	0.36	U	0.36	U	0.13	U
Methylene Chloride	3.5	U	4.1	U	1.4	U
4-Methyl-2-Pentanone (MIBK)	0.41	U	0.41	U	0.22	
Naphthalene	0.52	UJ	0.52	UJ	0.28	J
Styrene	0.43	U	0.43	U	0.039	NJ
Tetrachloroethylene	2.1		11		1	
Tetrahydrofuran	0.29	U	0.29	U	0.1	U
Toluene	5		0.41		3.3	
1,1,1-Trichloroethane	0.55	U	0.76		0.19	U
1,1,2-Trichloroethane	0.55	U	0.55	U	0.19	U
Trichloroethylene	0.54	U	0.54	U	0.19	U
Trichlorofluoromethane	1.8		1.6		1.9	
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.77	U	1.1		1	
1,2,4-Trimethylbenzene	0.88		0.49	U	0.7	
1,3,5-Trimethylbenzene	0.49	U	0.49	U	0.19	
m/p-Xylene	2.9		0.87	U	1.8	
o-Xylene	1.1		0.43	U	0.67	

Notes:
Blue - Samples collected during Phase II ESA.
Yellow - Mitigation required based on NYSDOH requirements.
Orange - Mitigation potentially required based on NYSDOH requirements.
U - Compound not detected above listed concentration.
J - Estimated value.
N - Tentative identification.
NS - Not sampled.

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Appendix A

Soil Boring and Well Construction Logs

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TEST BORING LOG

BORING No.SB-12

PROJECT	**Former S&S Cleaners**	LOCATION **Cohoes, New York**	SHEET **1** OF **1**
CLIENT	**New York State Department of Environmental Conservation**		PROJECT No. **00266396.0000**
DRILLING CONTRACTOR	**Aztech Technologies**		MEAS. PT. ELEV.
PURPOSE	**Remedial Investigation**		GROUND ELEV.
WELL MATERIAL			DATUM
DRILLING METHOD(S)	**Geoprobe**	SAMPLE / CORE / CASING	DATE STARTED **12/19/12**
DRILL RIG TYPE	TYPE		DATE FINISHED **12/19/12**
GROUND WATER DEPTH	**11.0'** DIA. **"**		DRILLER **Ray**
MEASURING POINT	WEIGHT **#**		PIRNIE STAFF **S. Bagnato**
DATE OF MEASUREMENT	FALL **"**		

DEPTH FT.	SAMPLE TYPE, RECOVERY, NUMBER	BLOWS ON SAMPLE SPOON PER 6"	PID	GRAPHIC LOG	GEOLOGIC DESCRIPTION KEY - Color, Major, Minor Moisture, Etc.	ELEV. / DEPTH	WELL Constr.	REMARKS
2	6"		35		Brick.			
					Gray SILT and fine-coarse GRAVEL, moist.	0.3		
						0.5		
4								
6	5		7.5		Brown CLAY, trace silt, moist.			Collect sample 6'-7'
8					Gray CLAY, moist.	8.0		Collect sample 8'-9'
					Brown CLAY, moist-wet.	9.0		Collect sample 9'-10'
10					Gray CLAY, moist-wet.	10.0		Collect sample 10'-11'
12	5		0		Brown SILT & CLAY, wet.	12.0		
14					Brown-Gray CLAY, wet.	13.5		
16	5		0		Gray SILT, Some Clay and fine-coarse Sand, wet.	15.0		
18								
20						20.0		End of Boring

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TEST BORING LOG

BORING No.SB-13

PROJECT	**Former S&S Cleaners**	LOCATION **Cohoes, New York**	SHEET **1** OF **1**
CLIENT	**New York State Department of Environmental Conservation**		PROJECT No. **00266396.0000**
DRILLING CONTRACTOR	**Aztech Technologies**		MEAS. PT. ELEV.
PURPOSE	**Remedial Investigation**		GROUND ELEV.
WELL MATERIAL			DATUM
DRILLING METHOD(S)	**Geoprobe**	SAMPLE / CORE / CASING	DATE STARTED **12/19/12**
DRILL RIG TYPE	TYPE		DATE FINISHED **12/19/12**
GROUND WATER DEPTH	**10.0'** DIA. **"**		DRILLER **Ray**
MEASURING POINT	WEIGHT **#**		PIRNIE STAFF **S. Bagnato**
DATE OF MEASUREMENT	FALL **"**		

DEPTH FT.	SAMPLE TYPE, RECOVERY, NUMBER	BLOWS ON SAMPLE SPOON PER 6"	PID	GRAPHIC LOG	GEOLOGIC DESCRIPTION KEY - Color, Major, Minor Moisture, Etc.	ELEV. / DEPTH	WELL Constr.	REMARKS
					Concrete.			
					Brown fine-medium SAND, damp.	0.3		PID 51 ppm @ 0.5'
2	3.5		51		Brown CLAY, Some fine Gravel, trace silt, dry.	0.5		
4						3.5		
6					Brown SILT & CLAY, damp.			Collect sample 5'-6'
					Gray fine SAND, SILT, & CLAY, moist.	6.5		
8	5		0		Gray/Green CLAY, little silt & coarse sand, moist.	7.0		Collect sample 7'-8'
					Brown CLAY, little silt, moist-wet.	8.5		Collect 8'-9'
10					Brown SILT & CLAY, wet.	10.0		Collect sample 9'-10'
12	5		0					Collect sample 10'-11'
14					Brown SILT, Some Clay & coarse gravel, moist.	14.0		
16					Brown SILT, little coarse gravel, trace clay, moist.	15.0		
18	5		0					
					Brown/Gray CLAY, little coarse gravel & silt, moist.	19.0		
20						20.0		End of Boring

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TEST BORING LOG

BORING No.SB-14

PROJECT	**Former S&S Cleaners**	LOCATION **Cohoes, New York**	SHEET **1** OF **1**
CLIENT	**New York State Department of Environmental Conservation**		PROJECT No. **00266396.0000**
DRILLING CONTRACTOR	**Aztech Technologies**		MEAS. PT. ELEV.
PURPOSE	**Remedial Investigation**		GROUND ELEV.
WELL MATERIAL			DATUM
DRILLING METHOD(S)	**Geoprobe**	SAMPLE / CORE / CASING	DATE STARTED **12/19/12**
DRILL RIG TYPE	TYPE		DATE FINISHED **12/19/12**
GROUND WATER DEPTH	**9.0'** DIA. **"**		DRILLER **Ray**
MEASURING POINT	WEIGHT **#**		PIRNIE STAFF **S. Bagnato**
DATE OF MEASUREMENT	FALL **"**		

DEPTH FT.	SAMPLE TYPE, RECOVERY, NUMBER	BLOWS ON SAMPLE SPOON PER 6"	PID	GRAPHIC LOG	GEOLOGIC DESCRIPTION KEY - Color, Major, Minor Moisture, Etc.	ELEV. / DEPTH	WELL Constr.	REMARKS
					Concrete/stone.			
					Brown fine SAND, moist.	0.5		PID=150 ppm @ 0.5' Collect sample 0-1'
2	4		150		Brown CLAY, little coarse gravel, moist. Lenses of coarse gravel @ 2' and 3'.	0.8		Collect sample 2'-3' PID=20 ppm @ 3'
4								
6	5		0		Mottled Gray/Green CLAY, little silt & medium sand, moist-wet @ 9'.	5.0		Collect sample 5'-6'
8								Collect sample 7'-8' Collect sample 8'-9'
10					Brown/Gray mottled CLAY, SILT, & find SAND, moist-wet.	10.0		
12	4.5		0		Brown SILT & CLAY, Some coarse Sand, moist-wet.	12.0		
14								
16					TILL: Gray SILT & CLAY, Some coarse Gravel (shale), moist.	16.0		
18	3		0					
20						20.0		End of Boring

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TEST BORING LOG

BORING No.SB-15

PROJECT	**Former S&S Cleaners**	LOCATION **Cohoes, New York**	SHEET **1** OF **1**
CLIENT	**New York State Department of Environmental Conservation**		PROJECT No. **00266396.0000**
DRILLING CONTRACTOR	**Aztech Technologies**		MEAS. PT. ELEV.
PURPOSE	**Remedial Investigation**		GROUND ELEV.
WELL MATERIAL			DATUM
DRILLING METHOD(S)	**Geoprobe**	SAMPLE / CORE / CASING	DATE STARTED **12/20/12**
DRILL RIG TYPE	TYPE		DATE FINISHED **12/20/12**
GROUND WATER DEPTH	**10.0'** DIA. **"**		DRILLER **Ray**
MEASURING POINT	WEIGHT **#**		PIRNIE STAFF **S. Bagnato**
DATE OF MEASUREMENT	FALL **"**		

DEPTH FT.	SAMPLE TYPE, RECOVERY, NUMBER	BLOWS ON SAMPLE SPOON PER 6"	PID	GRAPHIC LOG	GEOLOGIC DESCRIPTION KEY - Color, Major, Minor Moisture, Etc.	ELEV. / DEPTH	WELL Constr.	REMARKS
0					Brick, wood, & gravel, moist.			
						1.0		
2	1		0					
4								
					Brown CLAY, little silt, moist-wet.			
6								Collect sample 5'-6'
	5		0					
8								Collect sample 7'-8'
					Gray CLAY, little silt & fine sand, moist-wet.	9.5		▼Collect sample 9'-10'
10					Gray CLAY, Some Silt & coarse Sand, wet.			
						10.0		
12	5		0					
14								
16								
	5		0					
18								
20						20.0		End of Boring

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TEST BORING LOG

BORING No.SB-16

PROJECT	**Former S&S Cleaners**	LOCATION **Cohoes, New York**	SHEET **1** OF **1**
CLIENT	**New York State Department of Environmental Conservation**		PROJECT No. **00266396.0000**
DRILLING CONTRACTOR	**Aztech Technologies**		MEAS. PT. ELEV.
PURPOSE	**Remedial Investigation**		GROUND ELEV.
WELL MATERIAL			DATUM
DRILLING METHOD(S)	**Geoprobe**	SAMPLE / CORE / CASING	DATE STARTED **12/20/12**
DRILL RIG TYPE	TYPE		DATE FINISHED **12/20/12**
GROUND WATER DEPTH	**11.0'** DIA. **"**		DRILLER **Ray**
MEASURING POINT	WEIGHT **#**		PIRNIE STAFF **S. Bagnato**
DATE OF MEASUREMENT	FALL **"**		

DEPTH FT.	SAMPLE TYPE, RECOVERY, NUMBER	BLOWS ON SAMPLE SPOON PER 6"	PID	GRAPHIC LOG	GEOLOGIC DESCRIPTION KEY - Color, Major, Minor Moisture, Etc.	ELEV. / DEPTH	WELL Constr.	REMARKS
2	1		0		Brown/Gray SILT, fine-medium SAND, & CLAY, Brick, tree root, moist.	1.0		
4					Gray CLAY & broken concrete, moist.			
6	4.5		0		Gray/Green CLAY, little silt, moist.	5.5		Collect sample 5'-6' Collect sample 6'-7'
8					Brown SILT & CLAY, moist.	7.0		Collect sample 8'-9'
10	5		0		Brown/Black SILT & CLAY, little fine sand, moist-wet.	10.0		Collect sample 9'-10' Collect sample 10'-11'
12					Brown SILT & CLAY, wet.	11.0		
14					Brown CLAY, wet.	13.0		
16	5		0		TILL: Gray SILT & CLAY, Some fine-coarse Sand, trace fine gravel, wet.	16.0		
18								
20						20.0		End of Boring

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TEST BORING LOG

BORING No.SB-17

PROJECT	**Former S&S Cleaners**	LOCATION **Cohoes, New York**	SHEET **1** OF **1**
CLIENT	**New York State Department of Environmental Conservation**		PROJECT No. **00266396.0000**
DRILLING CONTRACTOR	**Aztech Technologies**		MEAS. PT. ELEV.
PURPOSE	**Remedial Investigation**		GROUND ELEV.
WELL MATERIAL			DATUM
DRILLING METHOD(S)	**Geoprobe**	SAMPLE / CORE / CASING	DATE STARTED **12/20/12**
DRILL RIG TYPE	TYPE		DATE FINISHED **12/20/12**
GROUND WATER DEPTH	**10.0'** DIA. **"**		DRILLER **Ray**
MEASURING POINT	WEIGHT **#**		PIRNIE STAFF **S. Bagnato**
DATE OF MEASUREMENT	FALL **"**		

DEPTH FT.	SAMPLE TYPE, RECOVERY, NUMBER	BLOWS ON SAMPLE SPOON PER 6"	PID	GRAPHIC LOG	GEOLOGIC DESCRIPTION KEY - Color, Major, Minor Moisture, Etc.	ELEV. / DEPTH	WELL Constr.	REMARKS
2	2		0		FILL: Brown-Black SILT, Some Clay, cinders, ash, moist.	2.0		Collect sample 1'-2'
4								
6	4.5		5.5		Brown-Black SILT & CLAY, concrete, litle fine-coarse sand, moist, slight odor.	6.0		Collect sample 5'-6' PID=5.5 ppm @ 6' Collect sample 6'-7'
8					Brown SILT & CLAY, moist.			Collect sample 7'-8' Collect sample 8'-9'
10								▼
12	5		0		Brown SILT & CLAY, trace fine sand, wet.	10.0		
14								
16								
18	5		0		TILL: Gray SILT & CLAY, Some coarse Sand, wet.	17.0		
20						20.0		End of Boring

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TEST BORING LOG

BORING No.SB-18

PROJECT	**Former S&S Cleaners**	LOCATION **Cohoes, New York**	SHEET **1** OF **1**
CLIENT	**New York State Department of Environmental Conservation**		PROJECT No. **00266396.0000**
DRILLING CONTRACTOR	**Aztech Technologies**		MEAS. PT. ELEV.
PURPOSE	**Remedial Investigation**		GROUND ELEV.
WELL MATERIAL			DATUM
DRILLING METHOD(S)	**Geoprobe**	SAMPLE / CORE / CASING	DATE STARTED **12/20/12**
DRILL RIG TYPE	TYPE		DATE FINISHED **12/20/12**
GROUND WATER DEPTH	**11.0'** DIA. **"**		DRILLER **Ray**
MEASURING POINT	WEIGHT **#**		PIRNIE STAFF **S. Bagnato**
DATE OF MEASUREMENT	FALL **"**		

DEPTH FT.	SAMPLE TYPE, RECOVERY, NUMBER	BLOWS ON SAMPLE SPOON PER 6"	PID	GRAPHIC LOG	GEOLOGIC DESCRIPTION KEY - Color, Major, Minor Moisture, Etc.	ELEV. / DEPTH	WELL Constr.	REMARKS
2	2		0		FILL: Black SILT & fine SAND, brick, cinders, trace fine gravel, damp.			Collect sample 1'-2'
4								
					Concrete.	5.3		
6					Brown CLAY, Some Silt, damp.	5.8		Collect sample 6'-7'
8	4.5		0					Collect sample 8'-9'
10					Brown SILT & CLAY, moist-wet.	10.0		
12	5		0					Collect sample 11'-12'
14								
16					TILL: Gray SILT, CLAY, and fine-coarse SAND, moist-wet.	15.0		
18	4		0					
20						20.0		End of Boring

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TEST BORING LOG

BORING No.SB-19/MW-9

PROJECT	**Former S&S Cleaners**	LOCATION **Cohoes, New York**	SHEET **1** OF **1**
CLIENT	**New York State Department of Environmental Conservation**		PROJECT No. **00266396.0000**
DRILLING CONTRACTOR	**Aztech Technologies**		MEAS. PT. ELEV.
PURPOSE	**Remedial Investigation**		GROUND ELEV.
WELL MATERIAL	**1" PVC**		DATUM
DRILLING METHOD(S)	**Geoprobe**	SAMPLE / CORE / CASING	DATE STARTED **12/20/12**
DRILL RIG TYPE	TYPE		DATE FINISHED **12/20/12**
GROUND WATER DEPTH	**10.0'** DIA. **"**		DRILLER **Ray**
MEASURING POINT	WEIGHT **#**		PIRNIE STAFF **S. Bagnato**
DATE OF MEASUREMENT	FALL **"**		

DEPTH FT.	SAMPLE TYPE, RECOVERY, NUMBER	BLOWS ON SAMPLE SPOON PER 6"	PID	GRAPHIC LOG	GEOLOGIC DESCRIPTION KEY - Color, Major, Minor Moisture, Etc.	ELEV. / DEPTH	WELL Constr.	REMARKS
2	3		0		FILL: Brown/Green SILT & CLAY, brick, cinders, moist-wet.			Collect sample 2'-3'
						3.0		
4					FILL: Black fine-medium SAND & SILT, metal, glass, slag.	5.5		
6	4		0		Concrete.	6.0		
					Brown CLAY, little silt, moist.		7.0	
8								Collect sample 7'-8'
							9.0	
10							10.0 ▼	Collect sample 9'-10'
					Brown CLAY & SILT, moist-wet.	10.0		
12	5		0					
14								
16					Brown SILT & fine-coarse SAND, little clay, moist-wet.	15.0		
	5		0					
18					TILL: Gray SILT, CLAY, & coarse SAND, moist-wet.	18.0		
20							20.0	
						20.0		End of Boring

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TEST BORING LOG

BORING No.MW-6R

PROJECT	**S&S Cleaners and Dyers**	LOCATION **Cohoes, NY**	SHEET **1** OF **1**
CLIENT	**NYSDEC**		PROJECT No. **00266396.0000**
DRILLING CONTRACTOR	**Aztech**		MEAS. PT. ELEV.
PURPOSE	**Subsurface Investigation**		GROUND ELEV.
WELL MATERIAL	**2" PVC**		DATUM
DRILLING METHOD(S)	**HSA**	SAMPLE / CORE / CASING	DATE STARTED **8/6/13**
DRILL RIG TYPE	**Combo**	TYPE	DATE FINISHED **8/6/13**
GROUND WATER DEPTH	**6.1'**	DIA. **"**	DRILLER **Aztech**
MEASURING POINT		WEIGHT **#**	PIRNIE STAFF **S. Bagnato**
DATE OF MEASUREMENT		FALL **"**	

DEPTH FT.	SAMPLE TYPE, RECOVERY, NUMBER	BLOWS ON SAMPLE SPOON PER 6"	PID	GRAPHIC LOG	GEOLOGIC DESCRIPTION KEY - Color, Major, Minor Moisture, Etc.	ELEV. / DEPTH	WELL Constr.	REMARKS
2							1.0	
4								
6							▼	
8							8.0	
10								
12								
14								
16								
18								
							20.0	

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TEST BORING LOG

BORING No.MW-7R

PROJECT	**S&S Cleaners and Dyers**	LOCATION **Cohoes, NY**	SHEET **1** OF **1**
CLIENT	**NYSDEC**		PROJECT No. **00266396.0000**
DRILLING CONTRACTOR	**Aztech**		MEAS. PT. ELEV.
PURPOSE	**Subsurface Investigation**		GROUND ELEV.
WELL MATERIAL	**2" PVC**		DATUM
DRILLING METHOD(S)	**HSA**	SAMPLE / CORE / CASING	DATE STARTED **8/6/13**
DRILL RIG TYPE	**Combo**	TYPE	DATE FINISHED **8/6/13**
GROUND WATER DEPTH	**5.8'**	DIA. **"**	DRILLER **Aztech**
MEASURING POINT		WEIGHT **#**	PIRNIE STAFF **S. Bagnato**
DATE OF MEASUREMENT		FALL **"**	

DEPTH FT.	SAMPLE TYPE, RECOVERY, NUMBER	BLOWS ON SAMPLE SPOON PER 6"	PID	GRAPHIC LOG	GEOLOGIC DESCRIPTION KEY - Color, Major, Minor Moisture, Etc.	ELEV. / DEPTH	WELL Constr.	REMARKS
2							1.0	
4								
6							▼	
8							8.0	
10								
12								
14								
16								
18								
							20.0	

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TEST BORING LOG

BORING No.MW-10B

PROJECT	**S&S Cleaners and Dyers**	LOCATION **Cohoes, NY**	SHEET **1** OF **1**
CLIENT	**NYSDEC**		PROJECT No. **00266396.0000**
DRILLING CONTRACTOR	**Aztech**		MEAS. PT. ELEV.
PURPOSE	**Subsurface Investigation**		GROUND ELEV.
WELL MATERIAL	**4" PVC/Open Bedrock**		DATUM
DRILLING METHOD(S)	**HSA**	SAMPLE / CORE / CASING	DATE STARTED **8/8/13**
DRILL RIG TYPE	**Combo**	TYPE	DATE FINISHED **8/15/13**
GROUND WATER DEPTH	**11.9'**	DIA. **"**	DRILLER **Aztech**
MEASURING POINT		WEIGHT **#**	PIRNIE STAFF **S. Bagnato**
DATE OF MEASUREMENT		FALL **"**	

DEPTH FT.	SAMPLE TYPE, RECOVERY, NUMBER	BLOWS ON SAMPLE SPOON PER 6"	PID	GRAPHIC LOG	GEOLOGIC DESCRIPTION KEY - Color, Major, Minor Moisture, Etc.	ELEV. / DEPTH	WELL Constr.	REMARKS
2–42								
30–32					Bedrock first encountered.			
34–36	92%				Shale, change in rock type from 37.3-38' siltstone and sandstone with quartz veins.	33.0	34.0	Open bedrock section from 34-43.5'
38–42	45%				Shale.	38.0	43.5	
						43.5		

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TEST BORING LOG

BORING No.MW-11B

PROJECT	**S&S Cleaners and Dyers**	LOCATION **Cohoes, NY**	SHEET **1** OF **1**
CLIENT	**NYSDEC**		PROJECT No. **00266396.0000**
DRILLING CONTRACTOR	**Aztech**		MEAS. PT. ELEV.
PURPOSE	**Subsurface Investigation**		GROUND ELEV.
WELL MATERIAL	**4" PVC/Open Bedrock**		DATUM
DRILLING METHOD(S)	**HSA**	SAMPLE / CORE / CASING	DATE STARTED **8/9/13**
DRILL RIG TYPE	**Combo**	TYPE	DATE FINISHED **8/15/13**
GROUND WATER DEPTH	**38.8'**	DIA. **"**	DRILLER **Aztech**
MEASURING POINT		WEIGHT **#**	PIRNIE STAFF **S. Bagnato**
DATE OF MEASUREMENT		FALL **"**	

DEPTH FT.	SAMPLE TYPE, RECOVERY, NUMBER	BLOWS ON SAMPLE SPOON PER 6"	PID	GRAPHIC LOG	GEOLOGIC DESCRIPTION KEY - Color, Major, Minor Moisture, Etc.	ELEV. / DEPTH	WELL Constr.	REMARKS
2								
4								
6								
8								
10								
12								
14								
16								
18								
20								
22								
24								
26								
28								
30					Bedrock.			
32						32.0		Open bedrock section from 32-42'.
34								
36								
38								▼
40								
42						42.0		
						42.0		

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TEST BORING LOG

BORING No.MW-12

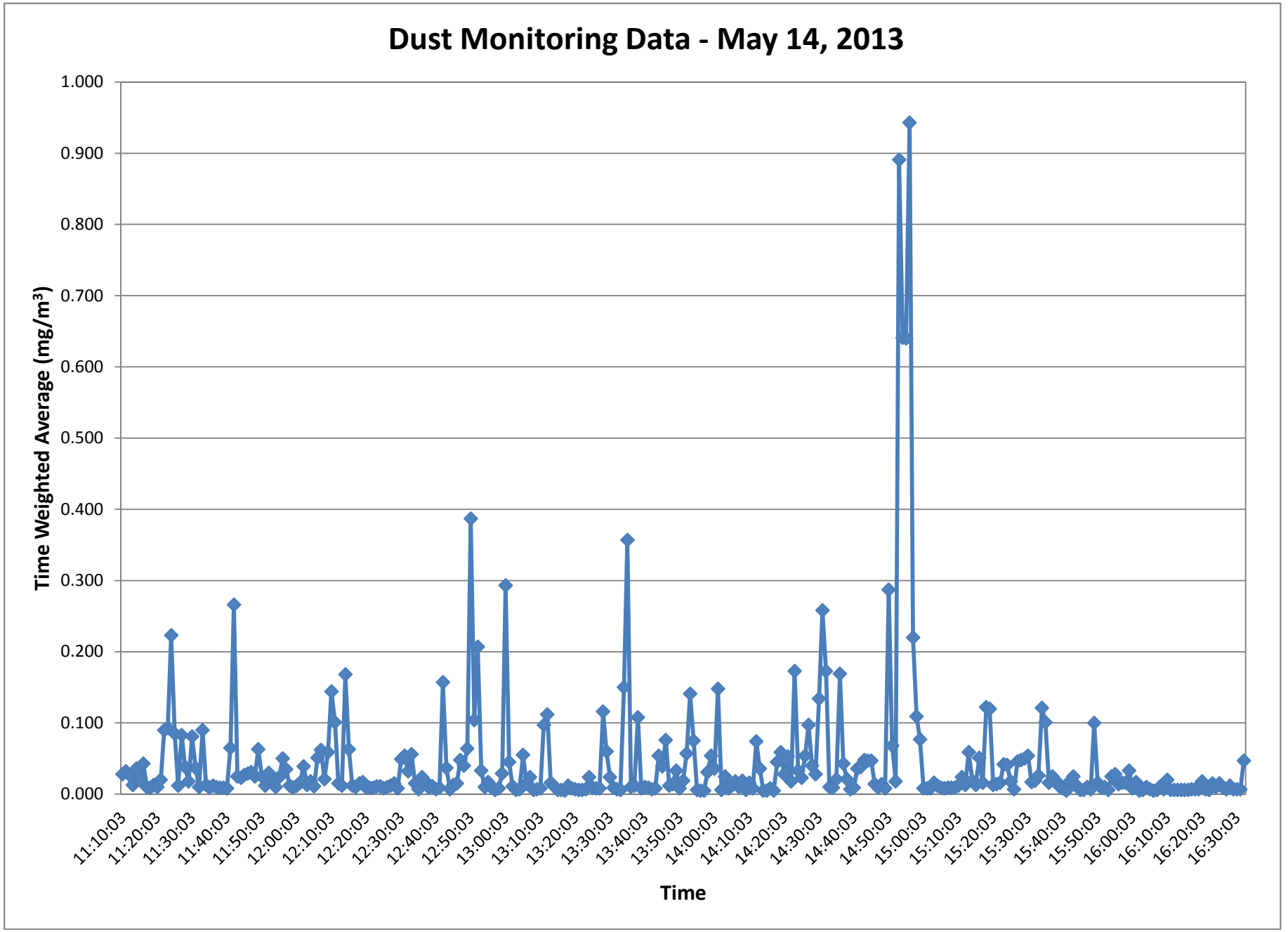
PROJECT	**S&S Cleaners and Dyers**	LOCATION	**Cohoes, NY**	SHEET	**1** OF **1**
CLIENT	**NYSDEC**			PROJECT No.	**00266396.0000**
DRILLING CONTRACTOR	**Aztech**			MEAS. PT. ELEV.	
PURPOSE	**Subsurface Investigation**			GROUND ELEV.	
WELL MATERIAL	**2" PVC**			DATUM	
DRILLING METHOD(S)	**HSA**	SAMPLE	CORE / CASING	DATE STARTED	**8/12/13**
DRILL RIG TYPE	**Combo**	TYPE		DATE FINISHED	**8/12/13**
GROUND WATER DEPTH	**7.0'**	DIA.	"	DRILLER	**Aztech**
MEASURING POINT		WEIGHT	#	PIRNIE STAFF	**S. Bagnato**
DATE OF MEASUREMENT		FALL	"		

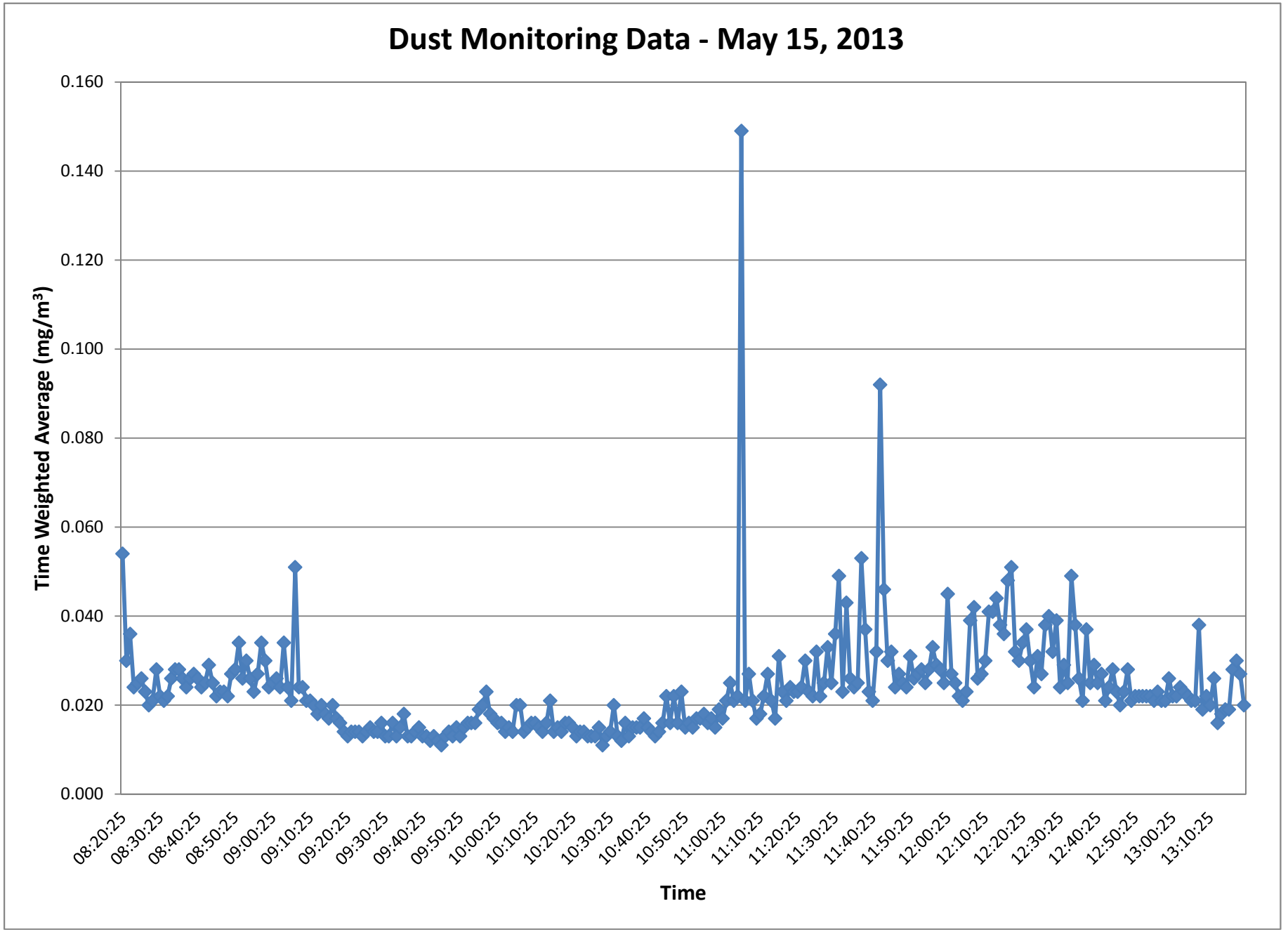
DEPTH FT.	SAMPLE TYPE, RECOVERY, NUMBER	BLOWS ON SAMPLE SPOON PER 6"	PID	GRAPHIC LOG	GEOLOGIC DESCRIPTION KEY - Color, Major, Minor Moisture, Etc.	ELEV. / DEPTH	WELL Constr.	REMARKS
2								
4								
6								
8								
10								
12								
14								
16								
18								
20								
22								
24								
26								
28								
30								
32						32.0		
34								
36								
38						38.0		
40								
42								
44								
46								
48								
						50.0		

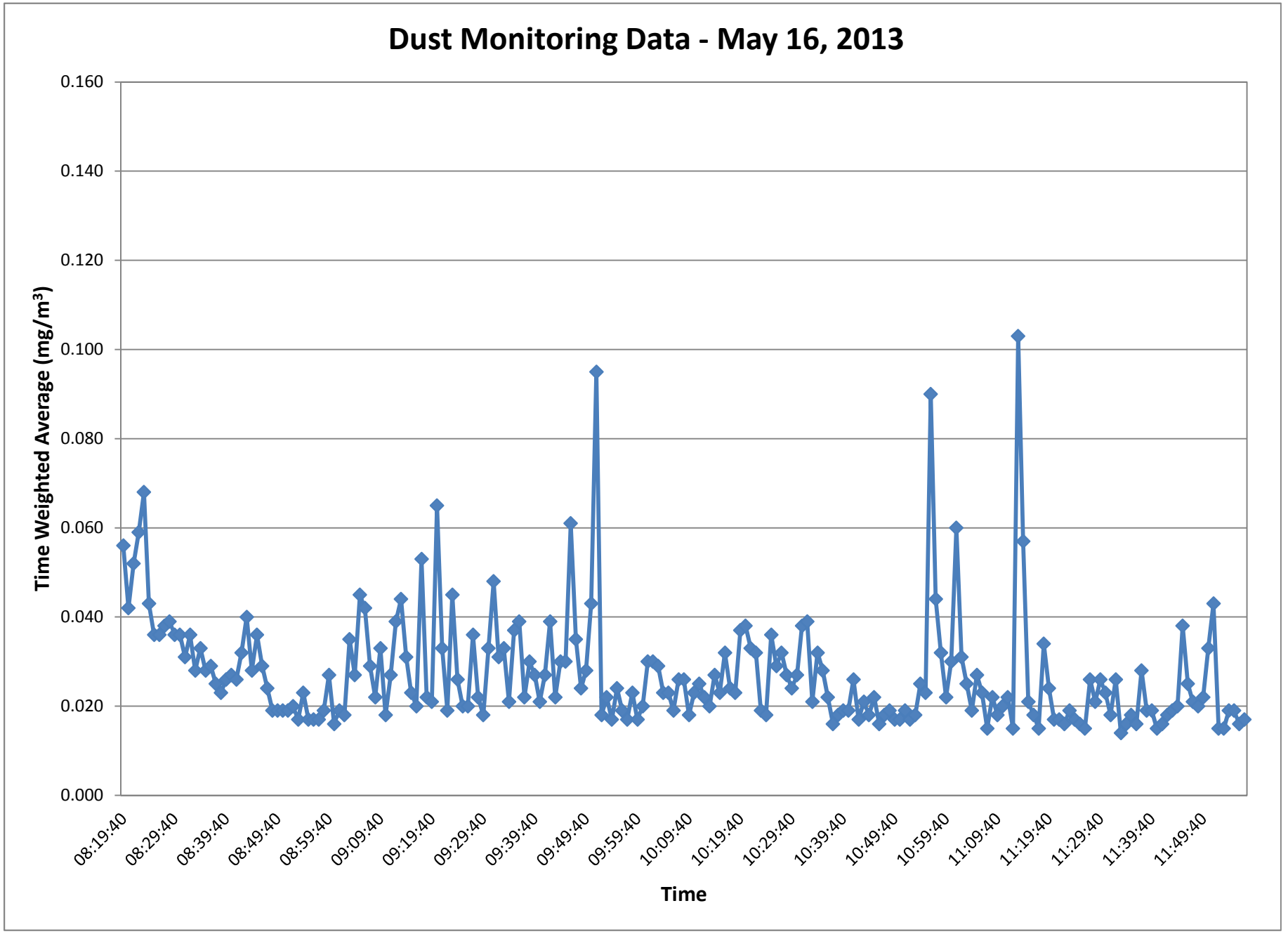
ARCADIS

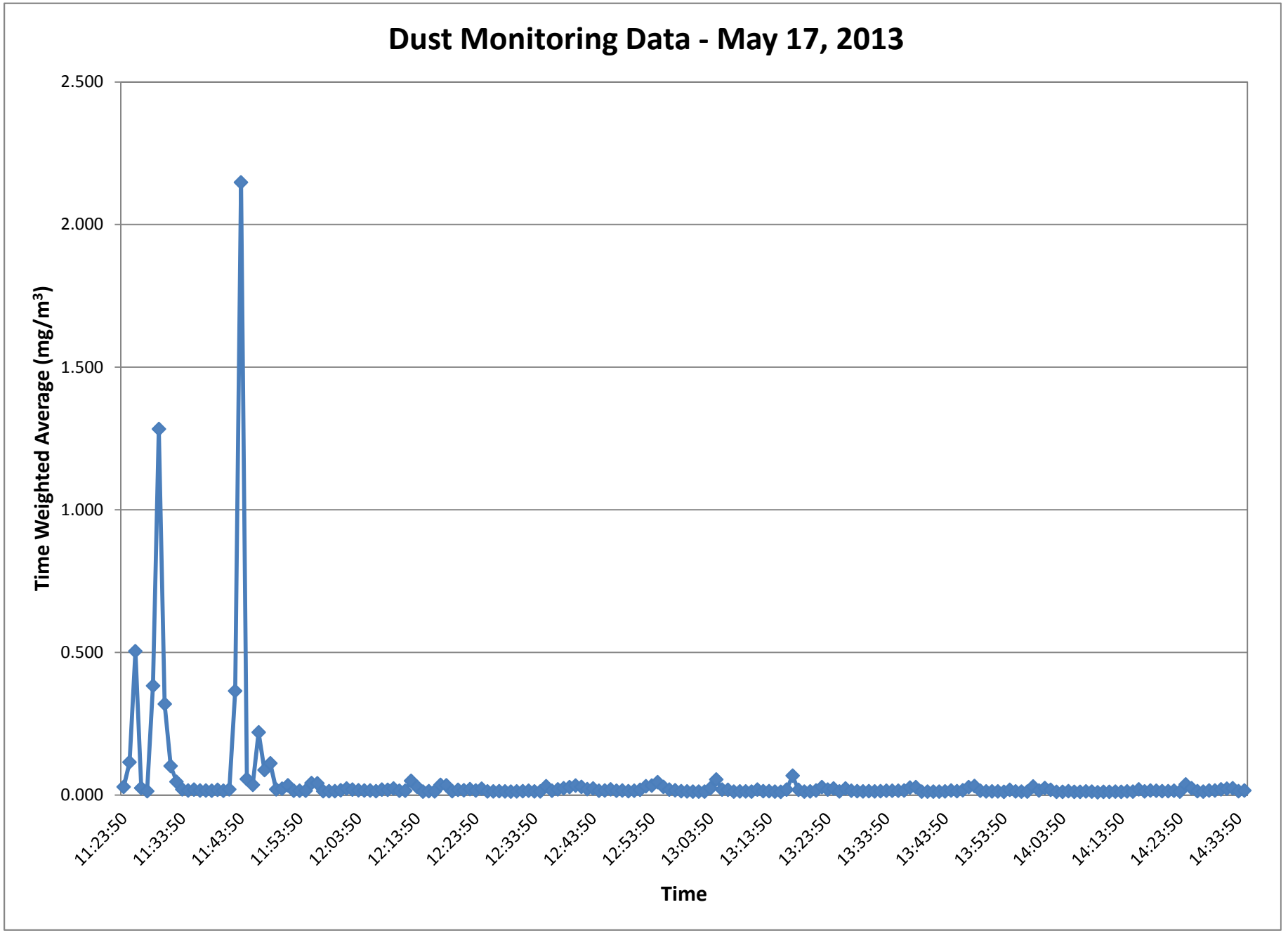
Appendix B

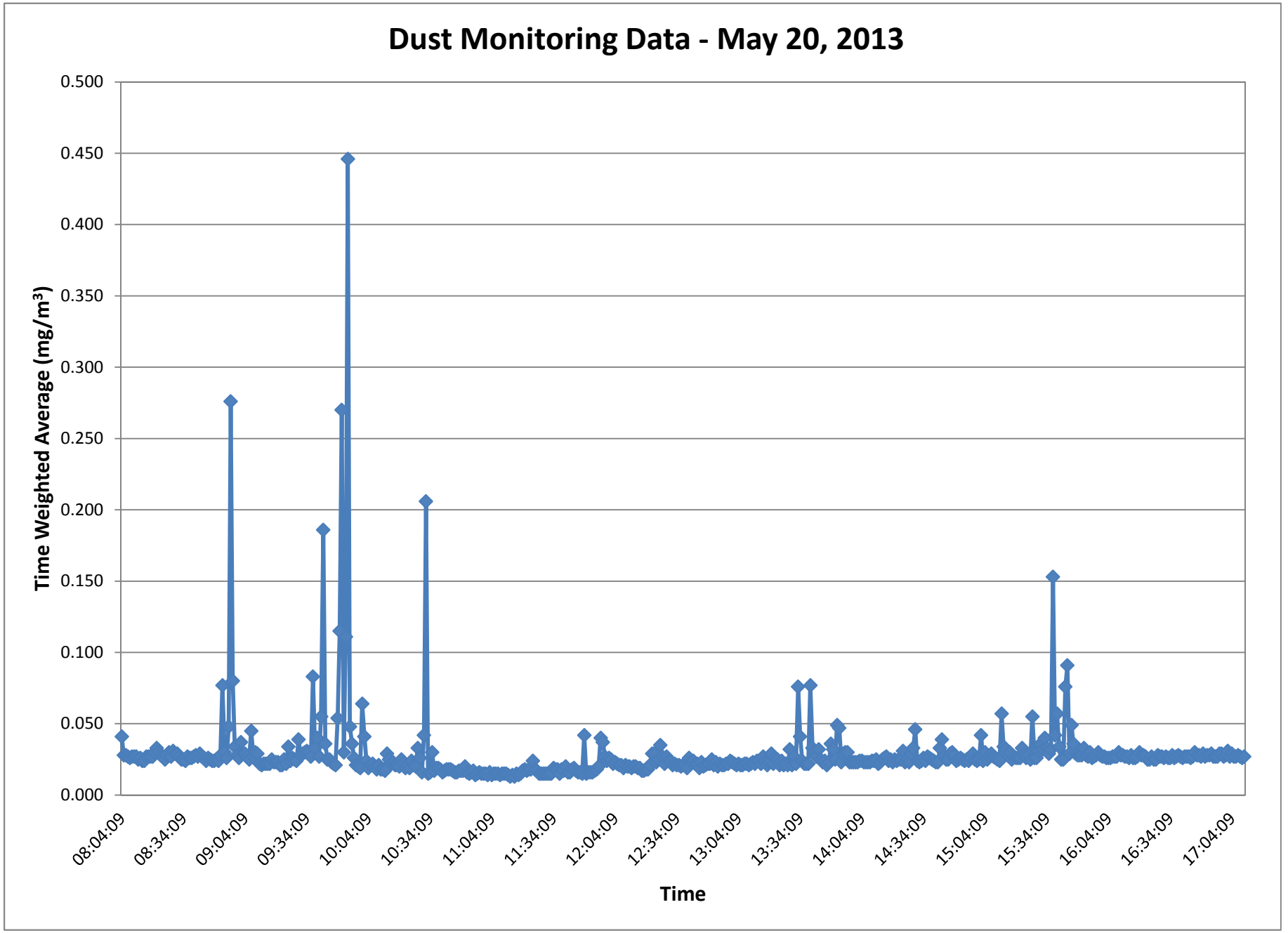
Soil IRM Air Monitoring Data

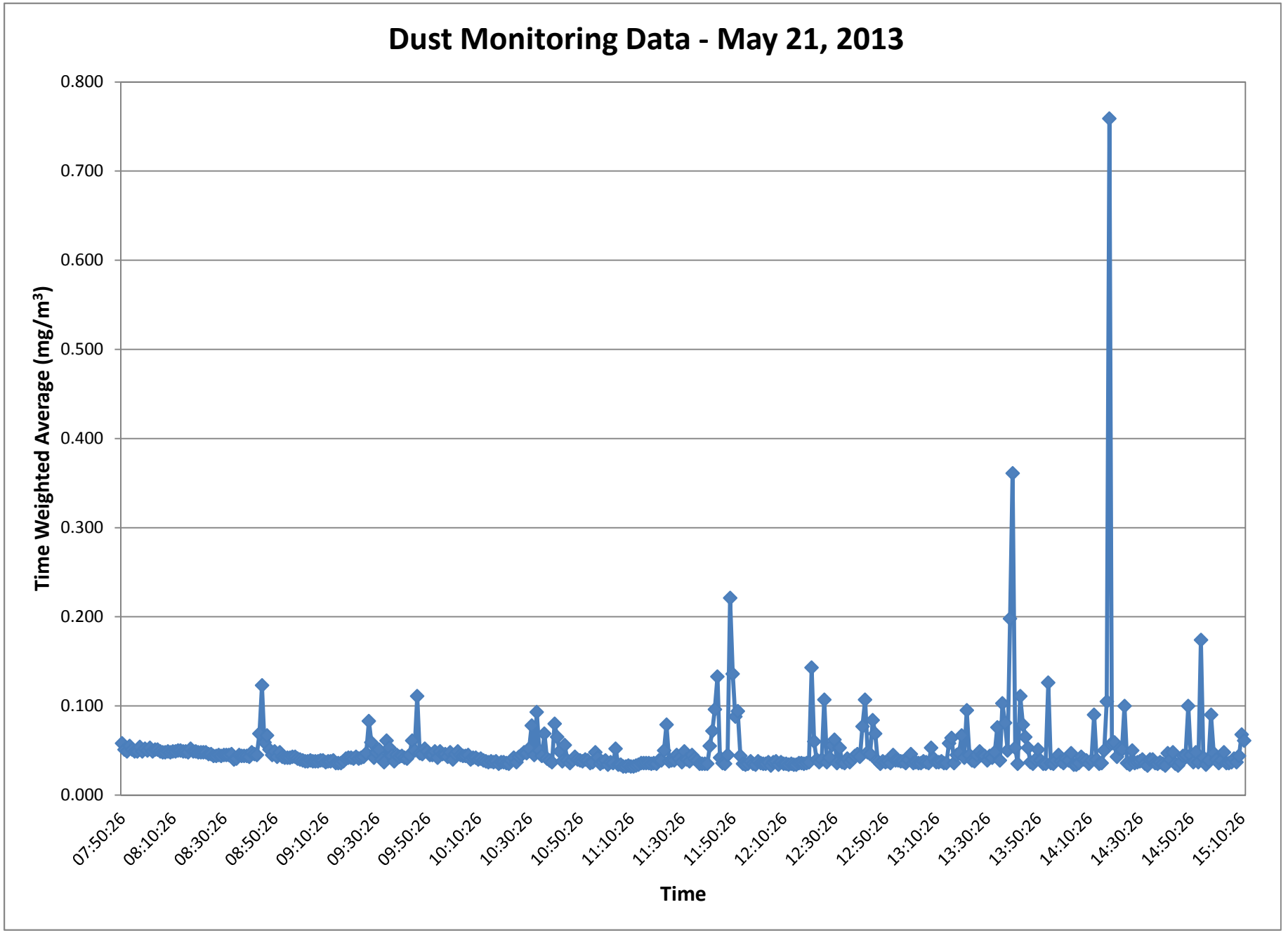

Dust Monitoring Data - May 14, 2013
Time Weighted Average (mg/m³)
1.000
0.900
0.800
0.700
0.600
0.500
0.400
0.300
0.200
0.100
0.000
11:10:03
11:20:03
11:30:03
11:40:03
11:50:03
12:00:03
12:10:03
12:20:03
12:30:03
12:40:03
12:50:03
13:00:03
13:10:03
13:20:03
13:30:03
13:40:03
13:50:03
14:00:03
14:10:03
14:20:03
14:30:03
14:40:03
14:50:03
15:00:03
15:10:03
15:20:03
15:30:03
15:40:03
15:50:03
16:00:03
16:10:03
16:20:03
16:30:03
Time

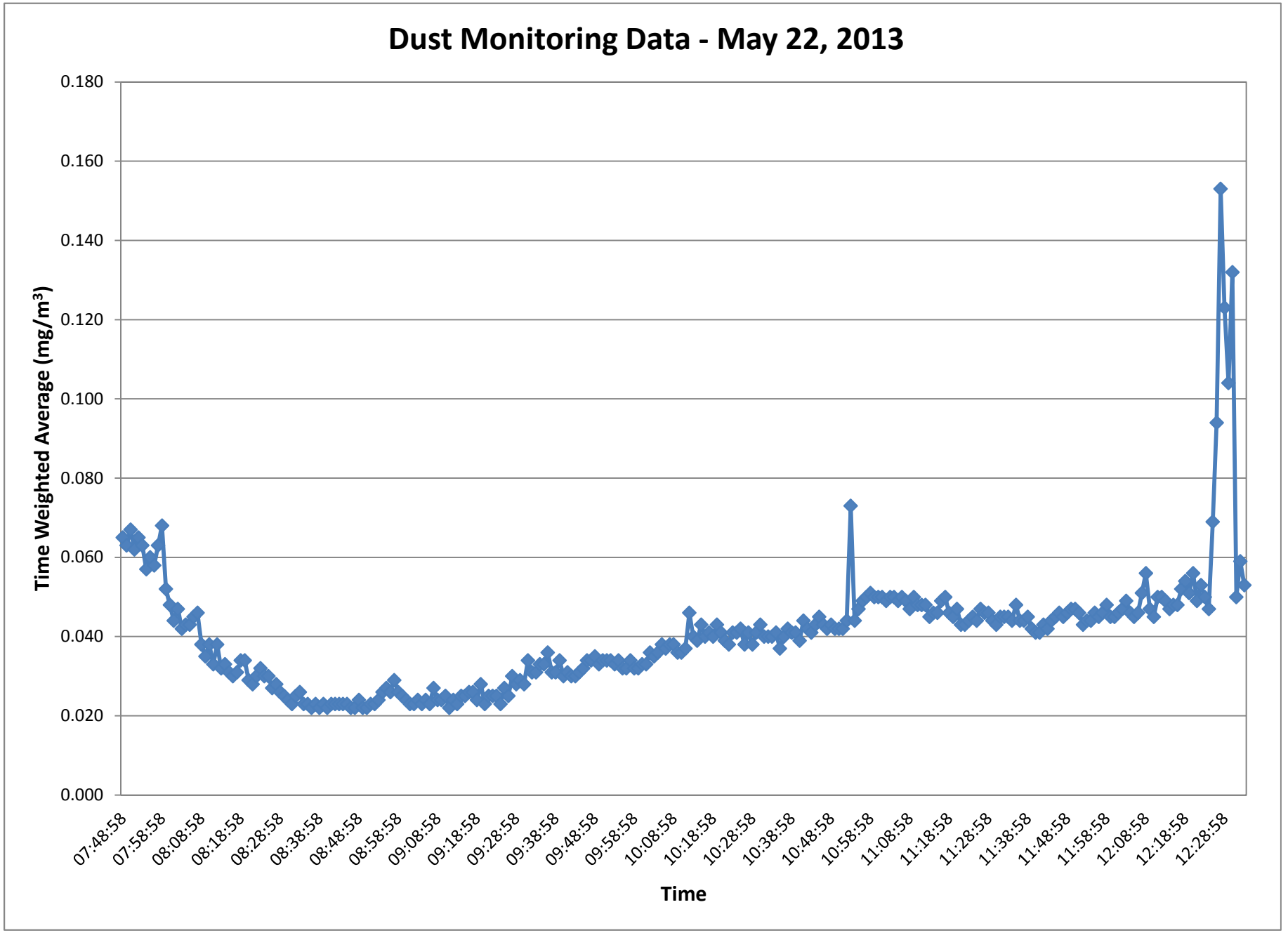

Dust Monitoring Data - May 15, 2013
Time Weighted Average (mg/m³)
0.160
0.140
0.120
0.100
0.080
0.060
0.040
0.020
0.000
08:20:25
08:30:25
08:40:25
08:50:25
09:00:25
09:10:25
09:20:25
09:30:25
09:40:25
09:50:25
10:00:25
10:10:25
10:20:25
10:30:25
10:40:25
10:50:25
11:00:25
11:10:25
11:20:25
11:30:25
11:40:25
11:50:25
12:00:25
12:10:25
12:20:25
12:30:25
12:40:25
12:50:25
13:00:25
13:10:25
Time

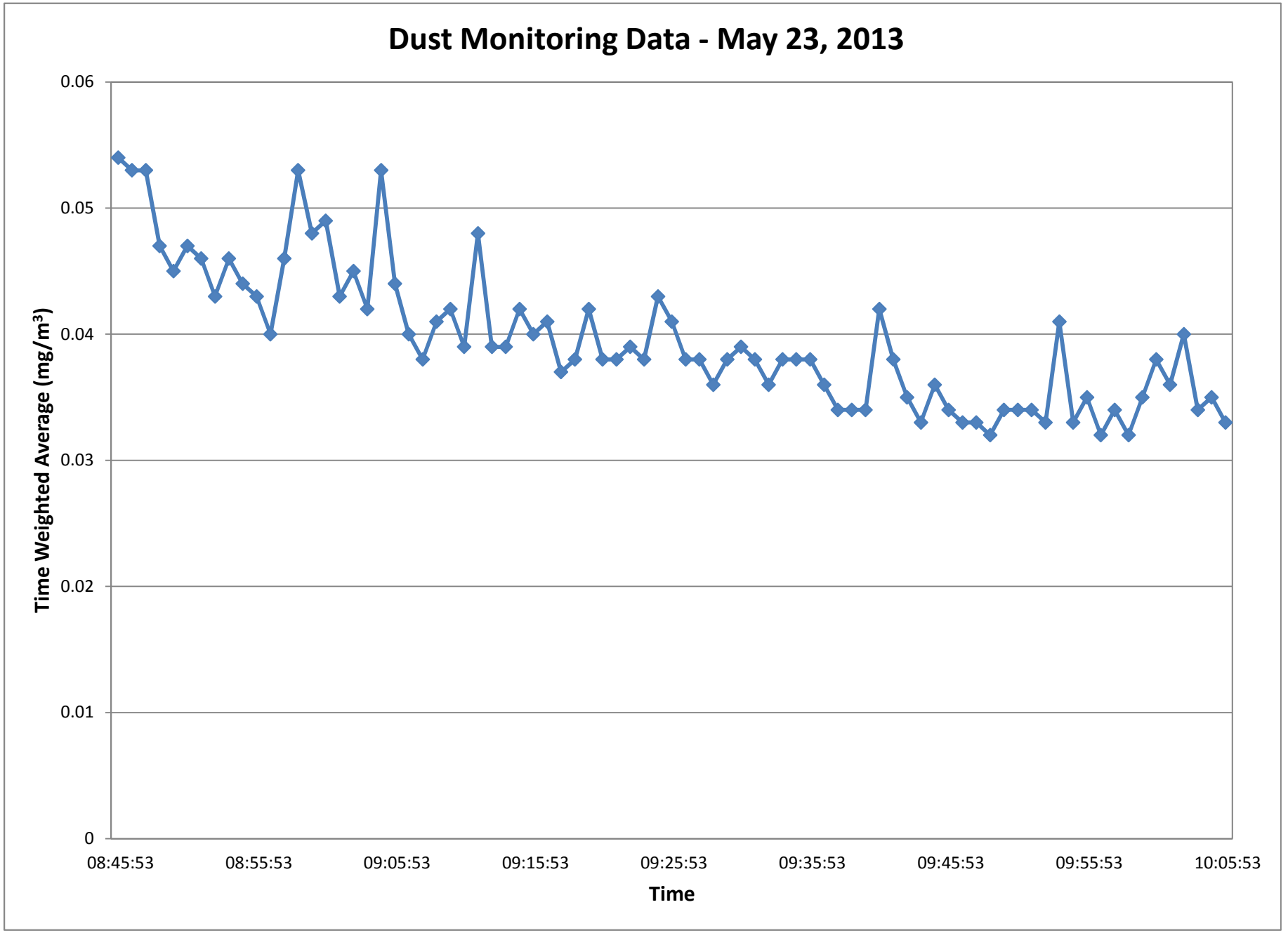

Dust Monitoring Data - May 16, 2013
Time Weighted Average (mg/m³)
0.160
0.140
0.120
0.100
0.080
0.060
0.040
0.020
0.000
08:19:40
08:29:40
08:39:40
08:49:40
08:59:40
09:09:40
09:19:40
09:29:40
09:39:40
09:49:40
09:59:40
10:09:40
10:19:40
10:29:40
10:39:40
10:49:40
10:59:40
11:09:40
11:19:40
11:29:40
11:39:40
11:49:40
Time


Dust Monitoring Data - May 17, 2013
Time Weighted Average (mg/m³)
2.500
2.000
1.500
1.000
0.500
0.000
11:23:50
11:33:50
11:43:50
11:53:50
12:03:50
12:13:50
12:23:50
12:33:50
12:43:50
12:53:50
13:03:50
13:13:50
13:23:50
13:33:50
13:43:50
13:53:50
14:03:50
14:13:50
14:23:50
14:33:50
Time


Dust Monitoring Data - May 20, 2013
Time Weighted Average (mg/m³)
0.500
0.450
0.400
0.350
0.300
0.250
0.200
0.150
0.100
0.050
0.000
08:04:09
08:34:09
09:04:09
09:34:09
10:04:09
10:34:09
11:04:09
11:34:09
12:04:09
12:34:09
13:04:09
13:34:09
14:04:09
14:34:09
15:04:09
15:34:09
16:04:09
16:34:09
17:04:09
Time


Dust Monitoring Data - May 21, 2013
Time Weighted Average (mg/m³)
0.800
0.700
0.600
0.500
0.400
0.300
0.200
0.100
0.000
07:50:26
08:10:26
08:30:26
08:50:26
09:10:26
09:30:26
09:50:26
10:10:26
10:30:26
10:50:26
11:10:26
11:30:26
11:50:26
12:10:26
12:30:26
12:50:26
13:10:26
13:30:26
13:50:26
14:10:26
14:30:26
14:50:26
15:10:26
Time


Dust Monitoring Data - May 22, 2013
Time Weighted Average (mg/m³)
0.180
0.160
0.140
0.120
0.100
0.080
0.060
0.040
0.020
0.000
07:48:58
07:58:58
08:08:58
08:18:58
08:28:58
08:38:58
08:48:58
08:58:58
09:08:58
09:18:58
09:28:58
09:38:58
09:48:58
09:58:58
10:08:58
10:18:58
10:28:58
10:38:58
10:48:58
10:58:58
11:08:58
11:18:58
11:28:58
11:38:58
11:48:58
11:58:58
12:08:58
12:18:58
12:28:58
Time


Dust Monitoring Data - May 23, 2013
Time Weighted Average (mg/m³)
0.06
0.05
0.04
0.03
0.02
0.01
0
08:45:53
08:55:53
09:05:53
09:15:53
09:25:53
09:35:53
09:45:53
09:55:53
10:05:53
Time

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Appendix C

Soil IRM Photographs



Photo 1: Excavation and staging of un-impacted upper five feet.



Photo 2: Loading of soil for transport and disposal.



Photo 3: Western portion of excavation area, excavated to 10 feet bgs.



Photo 4: Excavation area showing completion of western portion and live loading of soil from eastern portion of excavation.



Photo 5: Initial backfilling of western portion of excavation area, reusing stockpiled on-site soil/debris.



Photo 6: Live loading of soil from eastern portion of excavation.



Photo 7: View of overnight site security measures.



Photo 8: View of overnight site security measures.



Photo 9: Temporary staging of final load of soil from eastern portion of excavation in roll-off container.



Photo 10: View of eastern portion of excavation, excavated to 14 feet bgs and likely former sewer connection on eastern sidewall.



Photo 11: Delivery of off-site backfill materials.



Photo 12: Compaction of backfill materials.



Photo 13: Compaction of crusher run top coat.



Photo 14: Repaired property line fence.



Photo 15: Loading of staged soil for transport and disposal.



Photo 16: View of site following final restoration.

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Appendix D

SVI Building Questionnaires and Photographs

8 WILLOW STREET

OSR – 3

0

NEW YORK STATE DEPARTMENT OF HEALTH
INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY
CENTER FOR ENVIRONMENTAL HEALTH

This form must be completed for each residence involved in indoor air testing.

Preparer's Name DANIELLE GIRARD Date/Time Prepared 1/9/13 1000

Preparer's Affiliation ARCADIS Phone No. 518-250-7300

Purpose of Investigation S&S CLEANERS RI/FS - SVI INVESTIGATION

1. OCCUPANT:

Interviewed: (Y) N

Last Name: DuBois First Name: Sophie

Address: 8 Willow St.

County: Albany

Home Phone: 518-237-0022 Office Phone: _____

Number of Occupants/persons at this location 4 Age of Occupants 3 upstairs – 80
1 downstairs – 52, 51
22

2. OWNER OR LANDLORD: (Check if same as occupant X)

Interviewed: Y / N

Last Name: DuBois First Name: Sophie

Address: _____

County: _____

Home Phone: _____ Office Phone: _____

3. BUILDING CHARACTERISTICS

Type of Building: (Circle appropriate response)

(Residential)	School	Commercial/Multi-use
Industrial	Church	Other: _____

~1924 - meat market 1st level, convenient store converted to residence approx 46 yrs ago

If the property is residential, type? (Circle appropriate response)

Ranch	(2-Family)	3-Family	prior = 1 family
Raised Ranch	Split Level	Colonial	
Cape Cod	Contemporary	Mobile Home	
Duplex	Apartment House	Townhouses/Condos	
Modular	Log Home	Other:_____	

If multiple units, how many? 2

If the property is commercial, type? Residence now

Business Type(s) _____

Does it include residences (i.e., multi-use)? Y / N If yes, how many? _____

Other characteristics:

Number of floors 2 Building age Built approx 1924

Is the building insulated? (Y) / N How air tight? Tight / Average / Not Tight

4. AIRFLOW

Use air current tubes or tracer smoke to evaluate airflow patterns and qualitatively describe:

Airflow between floors

_____

_____

_____

Airflow near source

_____

_____

_____

Outdoor air infiltration

_____

_____

_____

Infiltration into air ducts

_____

_____

_____

5. **BASEMENT AND CONSTRUCTION CHARACTERISTICS** (Circle all that apply)

a. Above grade construction:	wood frame	concrete	stone	(brick)
b. Basement type:	(full)	crawlspace	slab	other _____
c. Basement floor:	(concrete)	dirt	stone	other _____
d. Basement floor:	(uncovered)	covered	covered with _____	
e. Concrete floor:	(unsealed)	sealed	sealed with _____	
f. Foundation walls:	(poured)	block	stone	other _____
g. Foundation walls:	(unsealed)	sealed	sealed with _____	~15% sealed w/ masonry sealant
h. The basement is:	wet	(damp)	dry	moldy
i. The basement is:	finished	(unfinished)	partially finished	
j. Sump present?	Y / (N)			
k. Water in sump?	Y / N	(not applicable)		

Basement/Lowest level depth below grade: _____(feet)

Identify potential soil vapor entry points and approximate size (e.g., cracks, utility ports, drains)

TWO CRACKS (~1-2") TWO DRAINS (~2" PIPE)

6. **HEATING, VENTING and AIR CONDITIONING** (Circle all that apply)

Type of heating system(s) used in this building: (circle all that apply – note primary)

Hot air circulation	Heat pump	(Hot water baseboard)	
Space Heaters	Stream radiation	Radiant floor	
Electric baseboard	Wood stove	Outdoor wood boiler	Other _____

The primary type of fuel used is:

(Natural Gas)	Fuel Oil	Kerosene
Electric	Propane	Solar
Wood	Coal	

Domestic hot water tank fueled by: GAS

Boiler/furnace located in:	(Basement)	Outdoors	Main Floor	Other_____
Air conditioning:	Central Air	(Window units)	Open Windows	None

Are there air distribution ducts present? Y / N

Describe the supply and cold air return ductwork, and its condition where visible, including whether there is a cold air return and the tightness of duct joints. Indicate the locations on the floor plan diagram.

7. OCCUPANCY

Is basement/lowest level occupied? Full-time Occasionally (Seldom) Almost Never

Level	**General Use of Each Floor (e.g., familyroom, bedroom, laundry, workshop, storage)**
Basement	storage
1st Floor	living space kitchen bed bath
2nd Floor	living space kitchen bed bath
3rd Floor	
4th Floor	

8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

a. Is there an attached garage? Y (N) 2 detached

b. Does the garage have a separate heating unit? Y / (N) / NA

c. Are petroleum-powered machines or vehicles stored in the garage (e.g., lawnmower, atv, car) (Y) / N / NA Please specify snowblower lawnmower

d. Has the building ever had a fire? Y / (N) When? _____

e. Is a kerosene or unvented gas space heater present? Y / (N) Where? _____

f. Is there a workshop or hobby/craft area? Y / (N) Where & Type? _____

g. Is there smoking in the building? Y / (N) How frequently? 1 smokes, outside only

h. Have cleaning products been used recently? Y / (N) When & Type? furniture polish 1x/month

i. Have cosmetic products been used recently? Y / (N) When & Type? _____

j. Has painting/staining been done in the last 6 months? Y (N) Where & When? _____

k. Is there new carpet, drapes or other textiles? Y (N) Where & When? _____

l. Have air fresheners been used recently? Y (N) When & Type? None first Floor

m. Is there a kitchen exhaust fan? Y (N) If yes, where vented? _____

n. Is there a bathroom exhaust fan? Y (N) If yes, where vented? _____

o. Is there a clothes dryer? (Y) N If yes, is it vented outside? (Y) N

p. Has there been a pesticide application? Y (N) When & Type? _____

Are there odors in the building? Y (N)
If yes, please describe: _____

Do any of the building occupants use solvents at work? Y / N
(e.g., chemical manufacturing or laboratory, (auto mechanic) or auto body shop, painting, fuel oil delivery, boiler mechanic, pesticide application, cosmetologist — 2nd floor occupant, own laundry 2nd flor

If yes, what types of solvents are used? _____

If yes, are their clothes washed at work? Y (N)

Do any of the building occupants regularly use or work at a dry-cleaning service? (Circle appropriate response)

Yes, use dry-cleaning regularly (weekly)
Yes, use dry-cleaning infrequently (monthly or less)
Yes, work at a dry-cleaning service
(No)
Unknown

Is there a radon mitigation system for the building/structure? Y (N) Date of Installation: _____
Is the system active or passive? Active/Passive

9. WATER AND SEWAGE

Water Supply: (Public Water) Drilled Well Driven Well Dug Well Other: _____

Sewage Disposal: (Public Sewer) Septic Tank Leach Field Dry Well Other: _____

10. RELOCATION INFORMATION (for oil spill residential emergency)

a. Provide reasons why relocation is recommended: _____

b. Residents choose to: remain in home relocate to friends/family relocate to hotel/motel

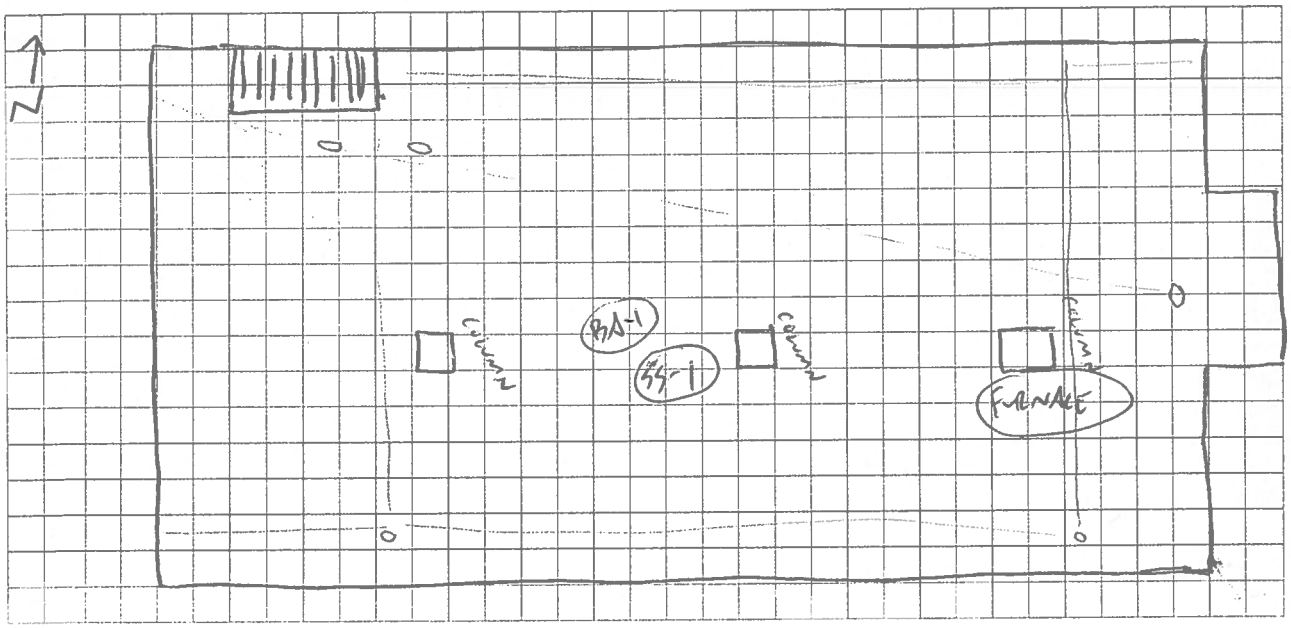
c. Responsibility for costs associated with reimbursement explained? Y / N

d. Relocation package provided and explained to residents? Y / N

11. FLOOR PLANS

Draw a plan view sketch of the basement and first floor of the building. Indicate air sampling locations, possible indoor air pollution sources and PID meter readings. If the building does not have a basement, please note.

Basement:

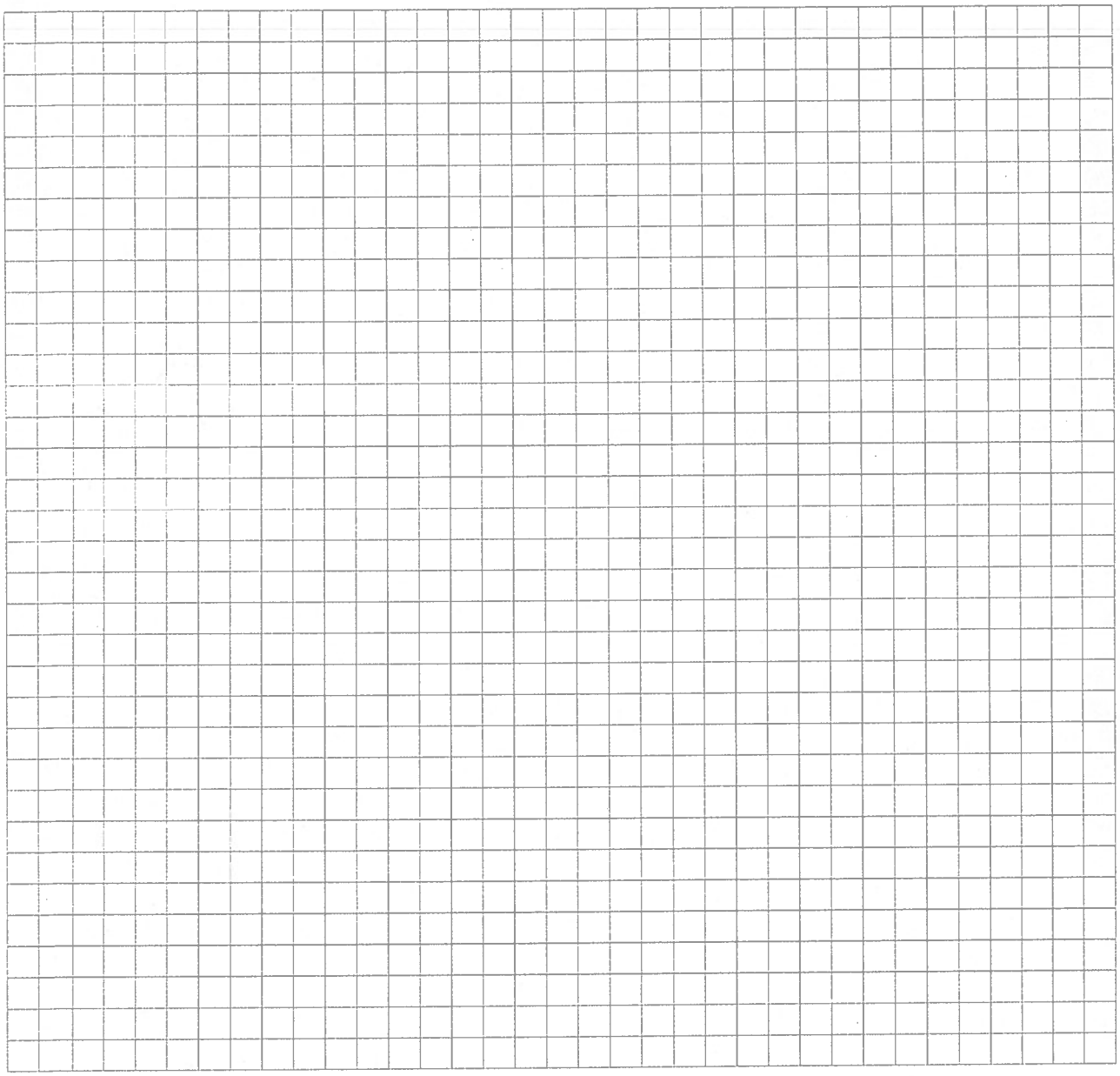


First Floor:

12. OUTDOOR PLOT

Draw a sketch of the area surrounding the building being sampled. If applicable, provide information on spill locations, potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.

Also indicate compass direction, wind direction and speed during sampling, the locations of the well and septic system, if applicable, and a qualifying statement to help locate the site on a topographic map.



13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: MINI RAE PPB RAE

List specific products found in the residence that have the potential to affect indoor air quality.

AMBIENT AIR = 240 ppb

Location	Product Description	Size (units)	Condition*	Chemical Ingredients	Field Instrument Reading (units)	Photo ** Y / N
BASEMENT N WALL	PENETRATING OIL	3 oz.	U		240 ppb	Y
↓	PRIMER	32 oz.	U		296 ppb	Y
	STAIN/POLYURETHANE	1 QT	U		1480 ppb	Y
	"	1 GAL	U		1480 ppb	Y
	ACRYLIC LATEX PAINT	2x 1 GAL	U		308 ppb	Y
	GAS POWERED WOOD				220 ppb	Y
	WACKER					
↓	FOUNDATION WATERPROOFER	5 GAL	U		276 ppb	Y

* Describe the condition of the product containers as **Unopened (UO), Used (U),** or **Deteriorated (D)**
** Photographs of the **front and back** of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

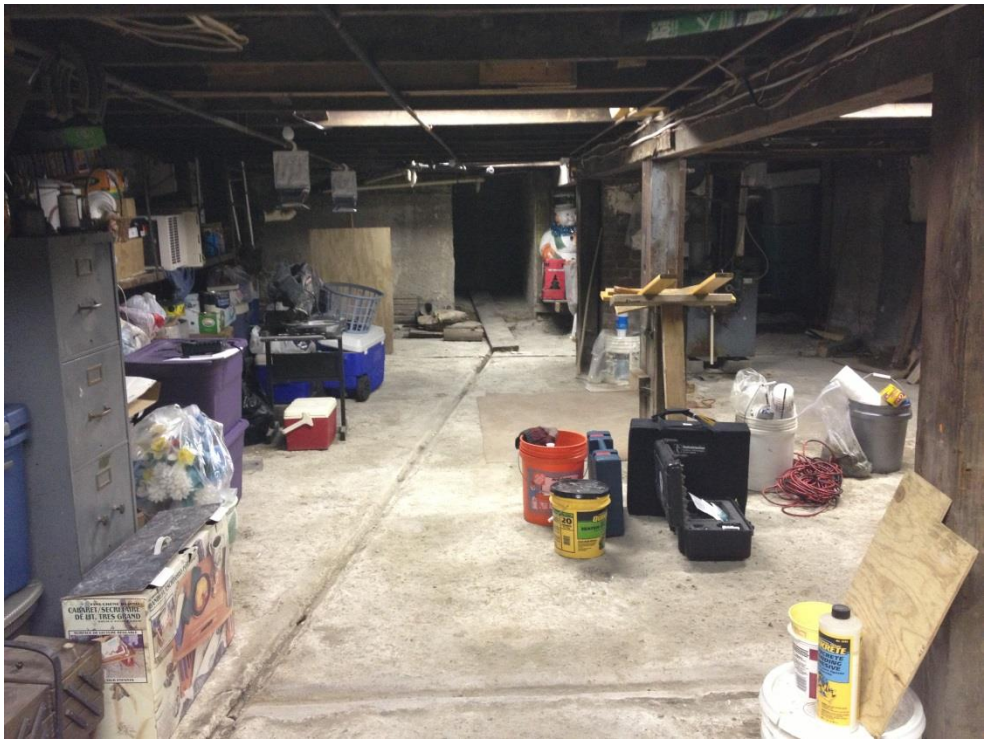


Photo 1: View of 8 Willow Street basement.

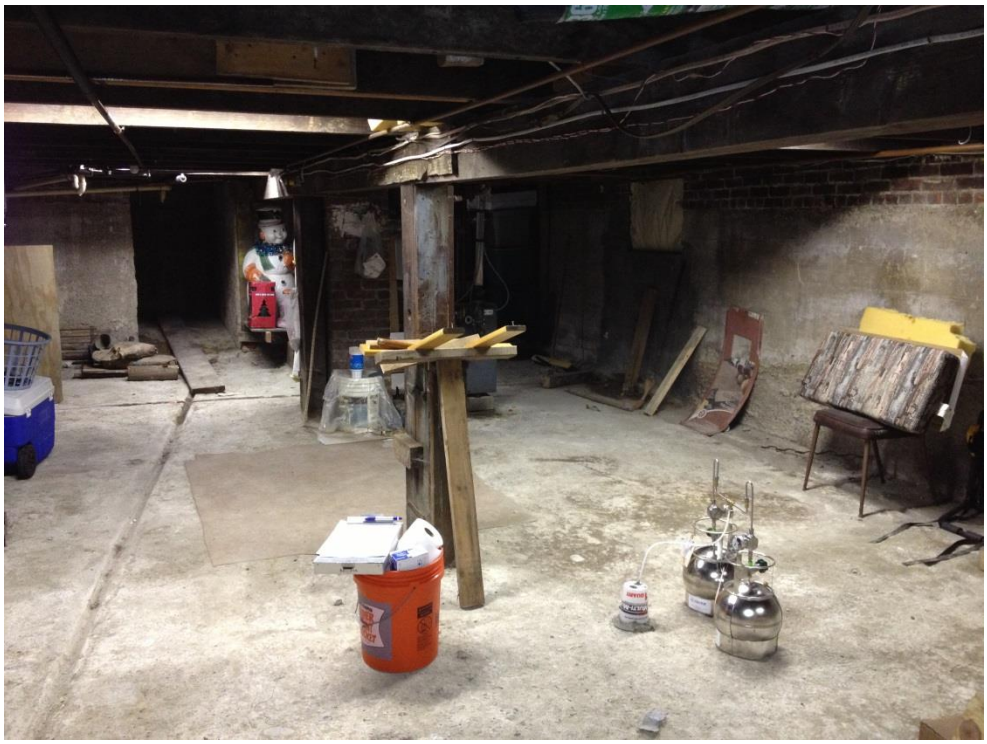


Photo 2: View of 8 Willow Street basement and sub-slab sampling location.



Photo 3: View of 8 Willow Street basement, sub-slab, and indoor air sampling locations.



Photo 4: Penetrating oil on shelf in 8 Willow Street basement.



Photo 5: Oil-based primer in basement of 8 Willow Street.



Photo 6: Stain and acrylic latex paint in 8 Willow Street basement.



Photo 7: Paint and primer on shelf in basement of 8 Willow Street.



Photo 8: Gas powered weedwacker in 8 Willow Street basement.



Photo 9: Cracks in basement floor of 8 Willow Street near north wall staircase.



Photo 10: Floor drain near south wall of 8 Willow Street basement.

Appendix E

Groundwater Purge Logs

MALCOLM PIRNIE

WELL DEVELOPMENT/ PURGING LOG

WELL NUMBER: MW-1 **DATE:** 10/11/12

PROJECT NAME: Willow St. Caves

PROJECT NUMBER: 21069369

SAMPLERS: BRG + AAW

A: Total Casing and Screen Length: _____

B: Casing Internal Diameter: _____

C: Water Level Below Top of Casing: 6.73

D: Volume of Water in Casing: _____

v = 0.0408 (B)² x (A-C) = D

v = 0.0408 ( )² x (-) = _____ gal.

Well I.D.	Vol. Gal./ft.
1"	0.04
2"	0.17
3"	0.38
4"	0.66
5"	1.04
6"	1.50
8"	2.60

PARAMETER	ACCUMULATED VOLUME PURGED											
Time	1045	1055	1100	1105	1110	1115	1120	1125	1130	1135		
Gallons												
Well Volume												
pH	6.90	6.74	6.74	6.74	6.77	6.78	6.79	6.78	6.77	6.76		
Conductivity (mohm/cm)	1.98	2.11	2.13	2.13	1.3	1.95	1.97	2.06	2.12	2.12		
Turbidity	12.3	7.7	6.6	5.8	1.2	1.3	0.8	1.3	1.3	1.3		
Dissolved Oxygen	0.40	0.00	0.00	0.00	0.14	0.70	0.27	0.00	0.00	0.00		
Temperature (°C)	19.21	19.06	19.00	18.98	18.96	18.98	18.99	19.00	18.99	18.94		
Salinity	1.0	1.1	1.1	1.1	1.0	1.0	1.0	1.0	1.1	1.1		
TDS	1.26	1.35	1.37	1.36	1.28	1.25	1.26	1.32	1.36	1.35		
REDOX (mV)	100	101	101	103	109	113	116	118	119	116		
DTW	7.20				10.24		10.68					

Notes: MW-1 for VOCs at 11:35

MALCOLM PIRNIE

WELL DEVELOPMENT/ PURGING LOG

WELL NUMBER: MW-2 **DATE:** 10/11/12

PROJECT NAME: _____

PROJECT NUMBER: _____

SAMPLERS: _____

A: Total Casing and Screen Length: _____

B: Casing Internal Diameter: _____

C: Water Level Below Top of Casing: 8.78

D: Volume of Water in Casing: _____

$v = 0.0408 (B)^2 \times (A-C) = D$

v = 0.0408 ( )² x (-) = _____ gal.

Well I.D.	Vol. Gal./ft.
1"	0.04
2"	0.17
3"	0.38
4"	0.66
5"	1.04
6"	1.50
8"	2.60

PARAMETER	ACCUMULATED VOLUME PURGED											
Time	935	940	945	950	955	1000	1005	1010	1015	1020	1025	
Gallons			1			2.5			3			
Well Volume												
pH	7.44	7.09	7.02	6.95	6.91	6.93	6.97	7.01	7.03	7.04	7.05	
Conductivity (mohm/cm)	.618	.623	.627	.626	.626	.629	.632	.635	.641	.645	.649	
Turbidity	8.9	2.7	4.3	4.0	4.4	3.6	3.5	2.8	3.2	3.4	3.4	
Dissolved Oxygen	1.58	0.0	0.0	0.0	3.7	0.0	0.0	0.0	0.0	0.0	0.0	
Temperature (°C)	20.40	9.14	18.77	18.85	18.94	19.00	18.98	18.98	18.89	18.80	18.69	
Salinity	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	
TDS	.392	.399	.401	.401	.400	.403	.404	.407	.410	.412	.415	
REDOX (mV)	-20	-65	-73	-61	-25	-3	-1	-1	-3	-4	-8	
	7.92		10.18	10.25			11.06		11.66			

Notes: MW-2 for VOCs @ 1025

MALCOLM PIRNIE

WELL DEVELOPMENT/ PURGING LOG

WELL NUMBER: MW-3 **DATE:** 8/10/12

PROJECT NAME: Willow St. Cohoes

PROJECT NUMBER: 26039.16

SAMPLERS: BRD + MAW

A: Total Casing and Screen Length: _____

B: Casing Internal Diameter: _____

C: Water Level Below Top of Casing: 6.55

D: Volume of Water in Casing: _____

$v = 0.0408 (B)^2 \times (A-C) = D$

v = 0.0408 ( )² x (-) = _____ gal.

Well I.D.	Vol. Gal./ft.
1"	0.04
2"	0.17
3"	0.38
4"	0.66
5"	1.04
6"	1.50
8"	2.60

PARAMETER	ACCUMULATED VOLUME PURGED											
Time	1155	1200	1205	1210	1215	1220	1225	1230	1235	1240	1245	
Gallons									3			
Well Volume												
pH	6.80	6.55	6.55	6.55	6.53	6.52	6.46	6.45	6.46	6.47	6.49	
Conductivity (mohm/cm)	1.40	1.38	1.36	1.36	1.37	1.35	1.38	1.38	1.38	1.38	1.38	
Turbidity	25.2	11.1	11.9	3.3	4.6	8.4	5.8	4.5	5.2	5.3	5.2	
Dissolved Oxygen	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Temperature (°C)	19.24	19.45	19.42	19.31	19.22	18.65	18.67	18.68	18.62	18.49	18.44	
Salinity	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	
TDS	0.895	0.880	0.872	0.875	.874	.872	.881	.881	.880	.882	.882	
REDOX (mV)	127	122	122	122	119	116	110	109	106	104	100	
DTW	7.86				9.61							

Notes: MW-3 for VOCs @ 1245

MALCOLM PIRNIE

WELL DEVELOPMENT/ PURGING LOG

WELL NUMBER: MW-5 DATE: 10/1/12

PROJECT NAME: 206396

PROJECT NUMBER:

SAMPLERS: BRG + AAW

A: Total Casing and Screen Length: _____

B: Casing Internal Diameter: _____

C: Water Level Below Top of Casing: 7.33

D: Volume of Water in Casing: _____

v = 0.0408 (B)² x (A-C) = D

v = 0.0408 ( )² x (-) = _____ gal.

Well I.D.	Vol. Gal./ft.
1"	0.04
2"	0.17
3"	0.38
4"	0.66
5"	1.04
6"	1.50
8"	2.60

PARAMETER	ACCUMULATED VOLUME PURGED											
Time	805	1510										
Gallons												
Well Volume												
pH	10.91	10.80										
Conductivity (mohm/cm)	4.37	4.91										
Turbidity	100.3											
Dissolved Oxygen	0.0	0.0										
Temperature (°C)	19.50	20.4										
Salinity	2.3	2.4										
TDS	2.8	2.91										
REDOX (mV)	-117	-120										
		11.61										

Notes: Purged dry 10/1/12 at 1510

MALCOLM PIRNIE

WELL DEVELOPMENT/ PURGING LOG

WELL NUMBER: MW-6 DATE: 10/1/12

PROJECT NAME: Willow St.

PROJECT NUMBER: 2663960

SAMPLERS: BRQ + AAW

A: Total Casing and Screen Length: _____

B: Casing Internal Diameter: _____

C: Water Level Below Top of Casing: 5.89

D: Volume of Water in Casing: _____

$v = 0.0408 (B)^2 \times (A-C) = D$

v = 0.0408 ( )² x (-) = _____ gal.

Well I.D.	Vol. Gal./ft.
1"	0.04
2"	0.17
3"	0.38
4"	0.66
5"	1.04
6"	1.50
8"	2.60

PARAMETER	ACCUMULATED VOLUME PURGED											
Time	1310	1315	1320	1325	1330	1335	1340	1345	1355	1400	1405	1410
Gallons		1										
Well Volume												
pH	7.25	7.24	7.24	7.24	7.26	7.27	7.29	7.31	7.30	7.29	7.29	7.27
Conductivity (mohm/cm)	.651	.646	.642	.638	0.629	0.628	0.626	0.624	0.599	0.612	0.615	0.620
Turbidity	11.1	13.1	15.2	7.2	13.9	21.6			244	226	209	194
Dissolved Oxygen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Temperature (°C)	17.09	17.09	17.04	17.03	16.99	16.97	17.02	17.03	17.68	17.70	17.67	17.63
Salinity	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
TDS	.416	.413	.411	.408	0.402	0.402	0.401	0.401	0.385	0.392	0.394	0.397
REDOX (mV)	57	32	26	24	30	38	47	61	75	66	63	58
		9.86							14.19			

Notes:

MALCOLM PIRNIE

WELL DEVELOPMENT/ PURGING LOG

WELL NUMBER: MW-6 (continued) **DATE:** 10/1/12

PROJECT NAME: Willow St.

PROJECT NUMBER: 266396

SAMPLERS: TBQ + AAW

A: Total Casing and Screen Length: _____

B: Casing Internal Diameter: _____

C: Water Level Below Top of Casing: _____

D: Volume of Water in Casing: _____

$v = 0.0408 (B)^2 \times (A-C) = D$

v = 0.0408 ( )² x (-) = _____ gal.

Well I.D.	Vol. Gal./ft.
1"	0.04
2"	0.17
3"	0.38
4"	0.66
5"	1.04
6"	1.50
8"	2.60

PARAMETER	ACCUMULATED VOLUME PURGED											
Time	1415	1420	1425	1430	1435	1440	1445					
Gallons												
Well Volume												
pH	7.26	7.26	7.27	7.27	7.28	7.28	7.28					
Conductivity (mohm/cm)	0.622	0.622	0.618	0.612	0.611	0.606	0.604					
Turbidity	177	166	152	144	137	132	135					
Dissolved Oxygen	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
Temperature (°C)	17.60	17.61	17.67	17.67	17.48	17.63	17.60					
Salinity	0.3	0.3	0.3	0.3	0.3	0.3	0.3					
TDS	0.398	0.399	0.395	0.391	0.391	0.388	0.387					
REDOX (mV)	54	51	51	51	52	54	56					

Notes: MW-6 for VOCs @ 14:45

ARCADIS

WELL DEVELOPMENT/ PURGING LOG

WELL NUMBER: MW 7 DATE: 10/4/12

PROJECT NAME:

PROJECT NUMBER:

SAMPLERS: BRQ + AAW

A: Total Casing and Screen Length: _____

B: Casing Internal Diameter: _____

C: Water Level Below Top of Casing: 6.20

D: Volume of Water in Casing: _____

$v = 0.0408 (B)^2 \times (A-C) = D$

$v = 0.0408 (\quad)^2 \times (\quad - \quad) =$ _____ gal.

Well I.D.	Vol. Gal./ft.
1"	0.04
2"	0.17
3"	0.38
4"	0.66
5"	1.04
6"	1.50
8"	2.60

PARAMETER	ACCUMULATED VOLUME PURGED											
Time	1005	1010	1015	1020	1025	1030	1035	1040	1045			
Gallons												
Well Volume												
Conductivity (mohm/cm)	1.41	1.40	1.39	1.37	1.36	1.34	1.32	1.32	1.33			
Dissolved Oxygen	1.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
REDOX (mV)	139	143	143	143	142	141	142	143	142			
pH	7.00	6.90	6.90	6.89	6.91	6.91	6.91	6.91	6.91			
Temperature (°C)	18.78	18.61	18.57	18.73	18.79	18.89	18.93	18.97	19.05			
Trubidity	165	143	144	90.5	14.9	9.5	9.5	9.6	9.6			
Salinity	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7			
TDS	.906	.879	.890	.878	0.86	0.884	.846	.845	.852			
DTW			9.11		9.11		9.05					

Notes:

WELL DEVELOPMENT/ PURGING LOG

ARCADIS

WELL NUMBER: MW-8

DATE: 10/1/12

PROJECT NAME: Willow St.

PROJECT NUMBER: 2663960

SAMPLERS: BRO AAW

A: Total Casing and Screen Length: _____

B: Casing Internal Diameter: _____

C: Water Level Below Top of Casing: 8.11

D: Volume of Water in Casing: _____

$v = 0.0408\ (B)^2 \times (A-C) = D$

$v = 0.0408\ (\quad)^2 \times (\quad - \quad) = \_\_\_\_\_$ gal.

Well I.D.	Vol. Gal./ft.
1"	0.04
2"	0.17
3"	0.38
4"	0.66
5"	1.04
6"	1.50
8"	2.60

PARAMETER	ACCUMULATED VOLUME PURGED											
Time	1535	1540	1545	1550	1555	1600	1605	1610	1615			
Gallons												
Well Volume												
Conductivity (mohm/cm)	1.00	1.04	.990	.863	.792	.787	.773	.767	.763			
Dissolved Oxygen	0.0	0.0	0.0	0.0	1.94	2.01	2.26	2.19	2.20			
REDOX (mV)	31	18	25	55	81	85	92	98	99			
pH	7.04	6.87	6.86	6.91	6.93	6.94	6.94	6.94	6.94			
Temperature (°C)	17.67	17.80	18.13	18.36	18.43	18.49	18.54	18.58	18.60			
Trubidity	309	22	57	43.3	8.3	6.3	4.1	3.8	4.0			
Salinity	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4			
TDS	.674	.663	.637	.551	.508	.502	.494	.490	.491			
DTW	8.32		9.30				10.28		10.55			

Notes: MW-8 @ 16:15 for VOCs, SVOCs, Pesticides, PCBs
DUP
MW-8 MS/MSD @ 1615

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WELL DEVELOPMENT/ PURGING LOG

WELL NUMBER: MW-4 DATE: 12/19/12

PROJECT NAME: S&S Cleaners & Dyers Site
PROJECT NUMBER: 00266396.0000
SAMPLERS: SB

A: Total Casing and Screen Length: 17.5'
B: Casing Internal Diameter: 2"
C: Water Level Below Top of Casing: 5.34'
D: Volume of Water in Casing: 2.07 GAL

Well I.D.	Vol. Gal./ft.
1"	0.04
2"	0.17
3"	0.38
4"	0.66
5"	1.04
6"	1.50
8"	2.60

$v = 0.0408 (B)^2 \times (A-C) = D$

$v = 0.0408 (\quad)^2 \times (\quad - \quad) = \_\_\_\_\_$ gal.

PARAMETER	ACCUMULATED VOLUME PURGED											
Time	1135	1145	1150	1200	1210	1215	1220	1225	1235	1240		
Gallons	0		1		3.5		4.5	5		6		
Well Volume												
Depth to Water (ft.)												
Temperature (°C)	8.90	9.57	10.15	10.59	10.90	10.97	11.13	11.16	11.16	11.16		
pH	7.51	7.16	7.27	7.23	7.22	7.25	7.31	7.30	7.30	7.31		
REDOX (mV)	11	23	44	54	46	46	41	45	44	44		
Conductivity (mohm/cm)	3.27	1.98	1.16	1.07	1.06	1.08	1.07	1.09	1.09	1.10		
Turbidity	95.3	31.0	9.4	7.8	4.0	3.6	3.7	3.5	3.5	3.8		
Dissolved Oxygen	1.95	1.08	1.00	0.99	1.10	1.18	0.00	0.45	0.20	0.11		
TDS												
Salinity												

Notes: 1135 - BEGIN PURGING W/ PERISTALTIC PUMP.
1240 - COLLECT SAMPLE FOR VOCs.

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WELL DEVELOPMENT/ PURGING LOG

WELL NUMBER: MW-9 DATE: 12/27/12

PROJECT NAME: S&S Cleaners & Dyers Site
PROJECT NUMBER: 00266396.0000
SAMPLERS: SB

A: Total Casing and Screen Length: 20'

B: Casing Internal Diameter: 1"

C: Water Level Below Top of Casing: NM

D: Volume of Water in Casing: -

Well I.D.	Vol. Gal./ft.
1"	0.04
2"	0.17
3"	0.38
4"	0.66
5"	1.04
6"	1.50
8"	2.60

$v = 0.0408 (B)^2 \times (A-C) = D$

v = 0.0408 ( )^2 x (-) = _____ gal.

PARAMETER	ACCUMULATED VOLUME PURGED											
Time	0820	0835										
Gallons	0	1										
Well Volume												
Depth to Water (ft.)												
Temperature (°C)												
pH												
REDOX (mV)												
Conductivity (mohm/cm)												
Turbidity												
Dissolved Oxygen												
TDS												
Salinity												

Notes: 0820 - BEGIN PURGING W/ PERISTALTIC
0835 - WELL DRY.
1000 - RETURN TO COLLECT SAMPLE.

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WELL DEVELOPMENT/ PURGING LOG

WELL NUMBER: MW-12 DATE: 8/28/13

PROJECT NAME: S&S Cleaners and Dyers Site
PROJECT NUMBER: 00266396.0000
SAMPLERS: SB/BO

A: Total Casing and Screen Length: 49.07'

B: Casing Internal Diameter: 2"

C: Water Level Below Top of Casing: 12.32'

D: Volume of Water in Casing: 6.25 GAL

Well I.D.	Vol. Gal./ft.
1"	0.04
2"	0.17
3"	0.38
4"	0.66
5"	1.04
6"	1.50
8"	2.60

$v = 0.0408 (B)^2 \times (A-C) = D$

v = 0.0408 ( )² x (-) = _____ gal.

PARAMETER	ACCUMULATED VOLUME PURGED											
Time	0845	0855	0905	0915	0925	0935	0950	1000	1005	1010		
Gallons	0									5		
Well Volume												
Depth to Water (ft.)							29.50	31.02				
Temperature (°C)	19.25	18.21	18.40	18.73	19.04	19.57	20.32	19.55	19.94	20.30		
pH	8.67	8.65	8.64	8.68	8.70	8.77	8.77	8.56	8.58	8.57		
REDOX (mV)	143	138	136	131	129	123	119	118	113	112		
Conductivity (mohm/cm)	1.82	1.66	1.64	1.62	1.60	1.61	1.68	1.95	1.93	1.92		
Turbidity	21.2	25.3	17.7	22.4	39.7	67.4	109	115	110	114		
Dissolved Oxygen	2.18	0.00	0.00	0.00	0.07	0.40	0.73	0.00	0.00	0.00		
TDS	1.15	1.06	1.05	1.03	1.02	1.03	1.07	1.25	1.23	1.23		
Salinity	0.9	0.8	0.8	0.8	0.8	0.8	0.8	1.0	1.0	1.0		

Notes: 0845 - BEGIN PURGING W/ PERISTALTIC.
1010 - ~~COLLECT VOC SAMPLE~~. WATER LEVEL TOO LOW TO COLLECT SAMPLE.
1130 - RETURN TO COLLECT VOC SAMPLE.

ARCADIS

WELL DEVELOPMENT/ PURGING LOG

WELL NUMBER: MW-1 DATE: 11/ 11 /2013

PROJECT NAME: Former S&S Cleaners - Cohoes
PROJECT NUMBER: 00266396.0000
SAMPLERS: B.Quaglieri

A: Total Casing and Screen Length: 19.37 ft bgs

B: Casing Internal Diameter: 2"

C: Water Level Below Top of Casing: 7.01 ft bgs

D: Volume of Water in Casing: 2.1 gal

Well I.D.	Vol. Gal./ft.
1"	0.04
2"	0.17
3"	0.38
4"	0.66
5"	1.04
6"	1.50
8"	2.60

$v = 0.0408 (B)^2 \times (A-C) = D$

$v = 0.0408 (\quad)^2 \times (\quad - \quad) = \_\_\_\_\_$ gal.

PARAMETER	ACCUMULATED VOLUME PURGED											
Time	0950	1000	1005	1010								
Gallons	0.30	0.75	0.9	1.2								
Depth to Water (ft)	8.85	9.89	9.92	10.11								
pH	7.32	7.25	7.25	7.25								
Conductivity (mS/cm)	2.81	2.82	2.82	2.82								
Turbidity (ntu)	73.3	46.8	49.1	48.4								
Dissolved Oxygen (mg/l)	0.00	0.00	0.00	0.00								
Temperature (°C)	13.73	13.72	13.80	13.86								
Salinity (ppt)	—	—	—	—								
TDS (g/L)	—	—	—	—								
Redox (mV)	70	71	74	77								

Notes: Pump on @ 0945.
Collected sample @ 1015.
Collected MS/MSD.

ARCADIS

WELL DEVELOPMENT/ PURGING LOG

WELL NUMBER: MW-3 DATE: 11/11/2013

PROJECT NAME: Former S&S Cleaners - Cohoes
PROJECT NUMBER: 00266396.0000
SAMPLERS: B.Quaglieri

A: Total Casing and Screen Length: 18.14 ft bgs

B: Casing Internal Diameter: 2"

C: Water Level Below Top of Casing: 6.46 ft bgs

D: Volume of Water in Casing: 2.0 gal

Well I.D.	Vol. Gal./ft.
1"	0.04
2"	0.17
3"	0.38
4"	0.66
5"	1.04
6"	1.50
8"	2.60

v = 0.0408 (B)^2 x (A-C) = D

v = 0.0408 ( )^2 x (-) = _____ gal.

PARAMETER	ACCUMULATED VOLUME PURGED											
Time	1230	1240	1245	1250	1255	1300						
Gallons	0.1	0.75	0.9	1.1	1.3	1.5						
Depth to Water (ft)	7.38	9.17	9.42	9.46	9.51	9.59						
pH	7.77	7.07	7.05	7.07	7.09	7.09						
Conductivity (mS/cm)	1.46	1.43	1.43	1.43	1.44	1.44						
Turbidity (ntu)	18.8	9.3	8.9	11.4	11.2	10.8						
Dissolved Oxygen (mg/l)	0.00	0.00	0.00	0.00	0.00	0.00						
Temperature (°C)	13.98	14.30	14.31	14.34	14.35	14.36						
Salinity (ppt)	—	—	—	—	—	—						
TDS (g/L)	—	—	—	—	—	—						
Redox (mV)	19	59	65	72	80	77						

Notes: Pump on @ 1225
Collected sample @ 1305

ARCADIS

WELL DEVELOPMENT/ PURGING LOG

WELL NUMBER: MW-4 DATE: 11/11 /2013

PROJECT NAME: Former S&S Cleaners - Cohoes
PROJECT NUMBER: 00266396.0000
SAMPLERS: B.Quaglieri

A: Total Casing and Screen Length: 17.43 ft bgs
B: Casing Internal Diameter: 2"
C: Water Level Below Top of Casing: 5.67 ft bgs
D: Volume of Water in Casing: 2.0 gal

Well I.D.	Vol. Gal./ft.
1"	0.04
2"	0.17
3"	0.38
4"	0.66
5"	1.04
6"	1.50
8"	2.60

$v = 0.0408 (B)^2 \times (A-C) = D$

v = 0.0408 ( )² x (-) = _____ gal.

PARAMETER	ACCUMULATED VOLUME PURGED											
Time	1325	1335	1340	1345	1350	1355	1400					
Gallons	0.25	0.6	0.8	1.1	1.4	1.6	1.75					
Depth to Water (ft)	7.15	7.98	8.08	8.35	8.52	8.68	8.84					
pH	7.24	7.23	7.32	7.40	7.41	7.41	7.40					
Conductivity (mS/cm)	2.98	2.02	1.60	1.21	1.12	1.12	1.10					
Turbidity (ntu)	8.3	6.8	8.0	7.8	7.2	7.4	7.2					
Dissolved Oxygen (mg/l)	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
Temperature (°C)	13.08	12.97	12.95	12.93	12.91	12.89	12.87					
Salinity (ppt)	—	—	—	—	—	—	—					
TDS (g/L)	—	—	—	—	—	—	—					
Redox (mV)	14	34	31	37	43	45	45					

Notes: Pump on @ 1320.
Collected sample @ 1405.

ARCADIS

WELL DEVELOPMENT/ PURGING LOG

WELL NUMBER: MW-5 DATE: 11/11/2013

PROJECT NAME: Former S&S Cleaners - Cohoes
PROJECT NUMBER: 00266396.0000
SAMPLERS: B.Quaglieri

A: Total Casing and Screen Length: 15.95 ft bgs

B: Casing Internal Diameter: 2"

C: Water Level Below Top of Casing: 7.51 ft bgs

D: Volume of Water in Casing: 1.4 gal

Well I.D.	Vol. Gal./ft.
1"	0.04
2"	0.17
3"	0.38
4"	0.66
5"	1.04
6"	1.50
8"	2.60

v = 0.0408 (B)^2 x (A-C) = D

v = 0.0408 ( )^2 x (-) = _____ gal.

11/12/13

PARAMETER	ACCUMULATED VOLUME PURGED											
Time	0910	0915	0920	0925	0930	0935	0635					
Gallons	0.25	0.50	0.75	1.00	1.3							
Depth to Water (ft)		11.64	12.48	13.97	15.42		12.62					
pH	7.27	7.25	7.42	7.25	7.25							
Conductivity (mS/cm)	4.22	4.23	4.28	4.26	4.24							
Turbidity (ntu)	1000	1000	1000	1000	1000							
Dissolved Oxygen (mg/l)	0.00	0.00	0.00	0.00	0.00							
Temperature (°C)	16.75	16.78	15.43	16.45	16.56							
Salinity (ppt)	—	—	—	—	—							
TDS (g/L)	—	—	—	—	—							
Redox (mV)	-156	-152	-100	-111	-115							

Notes: Pump on @ 0905
Dry @ 0931

Collected sample @ 0840 (11/12/13)

ARCADIS

WELL DEVELOPMENT/ PURGING LOG

WELL NUMBER: MW-6R DATE: 11/11 /2013

PROJECT NAME: Former S&S Cleaners - Cohoes
PROJECT NUMBER: 00266396.0000
SAMPLERS: B.Quaglieri

A: Total Casing and Screen Length: 19.38 ft bgs

B: Casing Internal Diameter: 2"

C: Water Level Below Top of Casing: 5.99 ft bgs

D: Volume of Water in Casing: 2.3 gal

Well I.D.	Vol. Gal./ft.
1"	0.04
2"	0.17
3"	0.38
4"	0.66
5"	1.04
6"	1.50
8"	2.60

$v = 0.0408 (B)^2 \times (A-C) = D$

v = 0.0408 ( )² x (-) = _____ gal.

PARAMETER	ACCUMULATED VOLUME PURGED												
Time	1035	1045	1050	1055	1100	1105	1110						
Gallons	0.1	0.75	1.0	1.25	1.50	1.75	2.0						
Depth to Water (ft)	6.11	6.08	6.08	6.08	6.08	6.08	6.08						
pH	7.50	7.34	7.32	7.32	7.32	7.33	7.33						
Conductivity (mS/cm)	2.72	2.34	2.31	2.28	2.28	2.29	2.30						
Turbidity (ntu)	184	64.6	38.5	29.0	21.1	19.3	20.4						
Dissolved Oxygen (mg/l)	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
Temperature (°C)	13.85	14.33	14.44	14.56	14.66	14.74	14.73						
Salinity (ppt)	—	—	—	—	—	—	—						
TDS (g/L)	—	—	—	—	—	—	—						
Redox (mV)	-135	-126	-125	-125	-123	-122	-123						

Notes: Pump on @ 1030
Collected sample @ 1115

ARCADIS

WELL DEVELOPMENT/ PURGING LOG

WELL NUMBER: MW-7R DATE: 11/11/2013

PROJECT NAME: Former S&S Cleaners - Cohoes
PROJECT NUMBER: 00266396.0000
SAMPLERS: B.Quaglieri

A: Total Casing and Screen Length: 19.29 ft bgs
B: Casing Internal Diameter: 2"
C: Water Level Below Top of Casing: 5.67 ft bgs
D: Volume of Water in Casing: 2.3 gal

Well I.D.	Vol. Gal./ft.
1"	0.04
2"	0.17
3"	0.38
4"	0.66
5"	1.04
6"	1.50
8"	2.60

$v = 0.0408 (B)^2 \times (A-C) = D$

v = 0.0408 ( )² x (-) = _____ gal.

PARAMETER	ACCUMULATED VOLUME PURGED											
Time	1130	1140	1145	1150	1155	1200	1205	1210				
Gallons	0.1	0.6	1.0	1.25	1.5	1.75	2.0	2.25				
Depth to Water (ft)	5.80	5.80	5.80	5.80	5.80	5.80	5.80	5.80				
pH	7.28	7.17	7.18	7.20	7.21	7.22	7.22	7.22				
Conductivity (mS/cm)	3.93	3.84	3.76	3.73	3.70	3.69	3.69	3.70				
Turbidity (ntu)	76.6	67.6	23.0	16.7	11.1	8.8	8.2	8.5				
Dissolved Oxygen (mg/l)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
Temperature (°C)	14.11	14.53	14.63	14.72	14.76	14.81	14.79	14.81				
Salinity (ppt)	—	—	—	—	—	—	—	—				
TDS (g/L)	—	—	—	—	—	—	—	—				
Redox (mV)	-101	-109	-117	-123	-126	-129	-131	-132				

Notes: Pump on @ 1125
Collected sample @ 1215
Collected MW-X-111113

ARCADIS

WELL DEVELOPMENT/ PURGING LOG

WELL NUMBER: MW-8 DATE: 11/13/2013

PROJECT NAME: Former S&S Cleaners - Cohoes
PROJECT NUMBER: 00266396.0000
SAMPLERS: B.Quaglieri

A: Total Casing and Screen Length: 20.18 ft bgs
B: Casing Internal Diameter: 2"
C: Water Level Below Top of Casing: 7.60 ft bgs
D: Volume of Water in Casing: 2.1 gal

Well I.D.	Vol. Gal./ft.
1"	0.04
2"	0.17
3"	0.38
4"	0.66
5"	1.04
6"	1.50
8"	2.60

$v = 0.0408 (B)^2 \times (A-C) = D$

$v = 0.0408 (\quad)^2 \times (\quad - \quad) = \_\_\_\_\_$ gal.

PARAMETER	ACCUMULATED VOLUME PURGED											
Time	0925	0935	0940	0945	0950	0955	1000	1005	1010	1015	1020	
Gallons	0.1	0.6	0.75	0.9	1.2	1.4	1.6	1.75	2.0	2.25	2.5	
Depth to Water (ft)	7.74	8.45	8.63	8.76	8.99	9.11	9.27	9.46	9.63	9.75	9.86	
pH	3.55	7.50	7.45	7.42	7.39	7.38	7.37	9.45	7.51	7.53	7.53	
Conductivity (mS/cm)	1.38	1.31	1.28	1.27	1.26	1.23	1.14	1.04	0.995	0.996	0.996	
Turbidity (ntu)	1000	134	73.9	69.9	54.4	42.1	45.5	30.9	19.9	20.1	19.3	
Dissolved Oxygen (mg/l)	6.01	4.28	4.88	4.99	4.73	4.39	4.56	5.26	5.36	5.35	5.36	
Temperature (°C)	8.84	12.17	12.19	12.22	12.15	12.12	12.17	12.17	12.08	12.03	11.89	
Salinity (ppt)	—	—	—	—	—	—	—	—	—	—	—	
TDS (g/L)	—	—	—	—	—	—	—	—	—	—	—	
Redox (mV)	143	119	119	119	120	123	135	149	158	163	164	

Notes: Pump on @ 0915
Collected sample @ 1025

ARCADIS

WELL DEVELOPMENT/ PURGING LOG

WELL NUMBER: MW-9 DATE: 11/12/2013

PROJECT NAME: Former S&S Cleaners - Cohoes
PROJECT NUMBER: 00266396.0000
SAMPLERS: B.Quaglieri

A: Total Casing and Screen Length: 19.61 ft bgs
B: Casing Internal Diameter: 1"
C: Water Level Below Top of Casing: 6.70 ft bgs
D: Volume of Water in Casing: 0.5 gal

Well I.D.	Vol. Gal./ft.
1"	0.04
2"	0.17
3"	0.38
4"	0.66
5"	1.04
6"	1.50
8"	2.60

$v = 0.0408 (B)^2 \times (A-C) = D$

v = 0.0408 ( )² x (-) = _____ gal.

PARAMETER	ACCUMULATED VOLUME PURGED											
Time	0910	0915	0920	0925	0930	0935						
Gallons	0.1	0.2	0.3	0.4	0.5	0.6						
Depth to Water (ft)	11.82	12.87	14.25	15.16	16.15	17.49						
pH	7.58	7.50	7.60	7.68	7.72	7.72						
Conductivity (mS/cm)	1.14	1.06	0.999	0.982	0.978	0.980						
Turbidity (ntu)	456	302	135	88.2	86.3	80.9						
Dissolved Oxygen (mg/l)	0.00	0.00	0.00	0.00	0.00	0.00						
Temperature (°C)	10.33	10.58	10.86	11.05	11.02	10.95						
Salinity (ppt)	–	–	–	–	–	–						
TDS (g/L)	–	–	–	–	–	–						
Redox (mV)	-98	-93	-87	-81	-77	-79						

Notes: Pump on @ 0900
Collected sample @ 0940

ARCADIS

WELL DEVELOPMENT/ PURGING LOG

WELL NUMBER: MW-10B DATE: 11/11 /2013

PROJECT NAME: Former S&S Cleaners - Cohoes
PROJECT NUMBER: 00266396.0000
SAMPLERS: B.Quaglieri & A.Goodrich

A: Total Casing and Screen Length: 40.31 ft bgs

B: Casing Internal Diameter: 4"

C: Water Level Below Top of Casing: 9.11 ft bgs

D: Volume of Water in Casing: 20.6 gal

Well I.D.	Vol. Gal./ft.
1"	0.04
2"	0.17
3"	0.38
4"	0.66
5"	1.04
6"	1.50
8"	2.60

$v = 0.0408 (B)^2 \times (A-C) = D$

$v = 0.0408 (\quad)^2 \times (\quad - \quad) = \_\_\_\_\_$ gal.

PARAMETER	ACCUMULATED VOLUME PURGED											
Time												
Gallons												
Depth to Water (ft)												
pH												
Conductivity (mS/cm)												
Turbidity (ntu)												
Dissolved Oxygen (mg/l)												
Temperature (°C)												
Salinity (ppt)												
TDS (g/L)												
Redox (mV)												

Notes: Collected sample @ 0840

ARCADIS

WELL DEVELOPMENT/ PURGING LOG

WELL NUMBER: MW-11B DATE: 11/13/2013

PROJECT NAME: Former S&S Cleaners - Cohoes
PROJECT NUMBER: 00266396.0000
SAMPLERS: B.Quaglieri & A.Goodrich

A: Total Casing and Screen Length: 41.17 ft bgs
B: Casing Internal Diameter: 4"
C: Water Level Below Top of Casing: 27.68 ft bgs
D: Volume of Water in Casing: 8.9 gal

Well I.D.	Vol. Gal./ft.
1"	0.04
2"	0.17
3"	0.38
4"	0.66
5"	1.04
6"	1.50
8"	2.60

$v = 0.0408 (B)^2 \times (A-C) = D$

$v = 0.0408 (\quad)^2 \times (\quad - \quad) = \_\_\_\_\_$ gal.

PARAMETER	ACCUMULATED VOLUME PURGED											
Time												
Gallons												
Depth to Water (ft)												
pH												
Conductivity (mS/cm)												
Turbidity (ntu)												
Dissolved Oxygen (mg/l)												
Temperature (°C)												
Salinity (ppt)												
TDS (g/L)												
Redox (mV)												

Notes: Collected sample @ 0905

ARCADIS

WELL DEVELOPMENT/ PURGING LOG

WELL NUMBER: MW-12 DATE: 11/11 /2013

PROJECT NAME: Former S&S Cleaners - Cohoes
PROJECT NUMBER: 00266396.0000
SAMPLERS: B.Quaglieri & A.Goodrich

A: Total Casing and Screen Length: 49.50 ft bgs

B: Casing Internal Diameter: 2"

C: Water Level Below Top of Casing: 9.22 ft bgs

D: Volume of Water in Casing: 6.8 gal

Well I.D.	Vol. Gal./ft.
1"	0.04
2"	0.17
3"	0.38
4"	0.66
5"	1.04
6"	1.50
8"	2.60

$v = 0.0408 (B)^2 \times (A-C) = D$

$v = 0.0408 (\quad)^2 \times (\quad - \quad) = \_\_\_\_\_$ gal.

PARAMETER	ACCUMULATED VOLUME PURGED											
Time												
Gallons												
Depth to Water (ft)												
pH												
Conductivity (mS/cm)												
Turbidity (ntu)												
Dissolved Oxygen (mg/l)												
Temperature (°C)												
Salinity (ppt)												
TDS (g/L)												
Redox (mV)												

Notes: Collected sample @ 0830

Appendix F

Waste Disposal Manifests

Investigation-Derived Waste

BA24876

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number NYR000202093	2. Page 1 of 1	3. Emergency Response Phone 732-613-1600	4. Manifest Tracking Number 011854566 JJK

5. Generator's Name and Mailing Address
NY Dept. of Environmental Conservation
625 Broadway
Albany, NY 12233
Generator's Phone: 518-402-8799

Generator's Site Address (if different than mailing address)
13 Willow Street
Cohoes, NY

6. Transporter 1 Company Name
Maumee Express, Inc.
U.S. EPA ID Number
NJD986807360

7. Transporter 2 Company Name
ELH TRANSPORTATION, INC.
U.S. EPA ID Number
PAD987271020

8. Designated Facility Name and Site Address
Wayne Disposal, Inc.
49350 N. I-94 Service Drive
Belleville, MI 48111
Facility's Phone: 800-592-5489
U.S. EPA ID Number
MID048090633

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. NA3077, Hazardous Waste, Solids, N.O.S. (F002), 9, PG III - ERG# 171 Debris	XX1	DM	200	P	F002
X	2. ~~NA3077, Hazardous Waste, Solids, N.O.S. (F002), 9, PG III - ERG# 171~~ Did not strip		~~DM~~ HCN		~~P~~ HCN	~~F002~~ HCN
X	3. ~~NA3082, Hazardous Waste, Liquid, N.O.S. (F002), 9, PG III - ERG# 171~~ EK 11/14/13	~~XH~~	~~DM~~	~~600~~	~~G~~	~~F002~~
	4.					

14. Special Handling Instructions and Additional Information
H132082WDI - PCE Contaminated Debris (1)
~~H132084WDI - PCE Contaminated Soil (2)~~
~~H132083WDI - PCE Contaminated Water (3)~~
AWT P.O. # 13184-JLH

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name	Signature	Month	Day	Year
Danielle Giroux on behalf of NYSDEC	Danielle Giroux	10	23	13

INT'L
16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER
17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name	Signature	Month	Day	Year
JTM Kenwith		10	23	13
Transporter 2 Printed/Typed Name	Signature	Month	Day	Year
WAYNE C MOHR	Wayne C Mohr	11	25	13

DESIGNATED FACILITY
18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection RK 11/14/13 ☐ Full Rejection
Line 2 removed per Jennifer Hack Due to Mat. Material on Wayne Manifest
Manifest Reference Number: 010338447 JJK
18b. Alternate Facility (or Generator) U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) Month Day Year
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name	Signature	Month	Day	Year
Mark Wuky		11	20	13

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
NYR000202283	1	732-613-1660	011854672 JJK

GENERATOR

5. Generator's Name and Mailing Address
NY Dept. of Environmental Conservation
625 Broadway
Albany, NY 12233
Generator's Phone: 518-402-8768

Generator's Site Address (if different than mailing address)
48 Willow Street
Cohoes, NY

6. Transporter 1 Company Name
Maximus Express, Inc.
U.S. EPA ID Number
NJD000507380

7. Transporter 2 Company Name
EQ Industrial Services
U.S. EPA ID Number
MI0 000 263 871

8. Designated Facility Name and Site Address
Michigan Disposal Waste Treatment Plant
48350 N. I-94 Service Drive
Belleville, MI 48111
Facility's Phone: 800-592-5489
U.S. EPA ID Number
MID000724831

9a. HM	9b. U.S. DOT Description (Including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. NA3082 Hazardous Waste Liquids, NOS - Class 9, PG III ERG# 171	1	DM	55	G	F002		
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
1132086MDI/PCE Contaminated Water

AWT P.O. # 13184-JLH

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: STEFAN BAGNATO ON BEHALF OF NYSDEC
Signature:
Month: 11 Day: 18 Year: 13

INTL

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Robert String
Signature:
Month: 11 Day: 19 Year: 13

Transporter 2 Printed/Typed Name: Ryan Rushman
Signature:
Month: 11 Day: 19 Year: 13

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Drum removed off WDI manifest
Per Jennifer HACK - KK - 11/19/13 Manifest Reference Number: 006867717 FLE

18b. Alternate Facility (or Generator) U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H110 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Mark Wesly
Signature:
Month: 11 Day: 25 Year: 13

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete. DESIGNATED FACILITY TO GENERATOR STATE (IF REQUIRED)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	NYR 000 202 083	1	(732) 613-1660	010338447 JJK

GENERATOR

5. Generator's Name and Mailing Address: NY STATE DEPT. OF ENVIRONMEN
625 BROADWAY
ATTN: MIKE KOMOROSKE
ALBANY, NY 12233
Generator's Phone: (518) 402-9768

Generator's Site Address (if different than mailing address):
13 WILLOW STREET
COHOES, NY 12047

6. Transporter 1 Company Name: ELK TRANSPORTATION, INC.
U.S. EPA ID Number: PAD 987 271 020

7. Transporter 2 Company Name: EQ Industrial Services
U.S. EPA ID Number: MI0000263871

8. Designated Facility Name and Site Address: MICHIGAN DISPOSAL WASTE TREATMENT PI
49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
Facility's Phone: (800) 592-5489
U.S. EPA ID Number: MID 000 724 831

9a. HM	9b. U.S. DOT Description (Including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. NA3082, Hazardous waste, liquid, n.o.s. (F002), 9, PGIII, ERG #171	011	DM	00605	G	F002		
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
1. I132085MDI / PCE Contaminated Water
Drums manifested to WDI in error per Jennifer Hack (011854568JJK)
X 010338447 JJK

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: JOE D'BELLONI | Signature | Month: 11 | Day: 14 | Year: 13

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

	Printed/Typed Name	Signature	Month	Day	Year
Transporter 1	Ron Lutz		11	14	13
Transporter 2	Kyle Warne		11	14	13

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator) U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H110			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in item 18a

Printed/Typed Name	Signature	Month	Day	Year
		11	22	13

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete. **DESIGNATED FACILITY TO GENERATOR**

BR24978

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
NYR000202083	1	732-613-1660	006867717 FLE

GENERATOR

5. Generator's Name and Mailing Address
NY Dept of Environmental Conservation
625 Broadway
Albany NY 12233
Generator's Phone: ~~12233818-402-9766~~

Generator's Site Address (if different than mailing address)
13 Willow Street
Cohoes NY

6. Transporter 1 Company Name
Maumee Express Inc
U.S. EPA ID Number
NJD986607380

7. Transporter 2 Company Name
EQ Industrial Services
U.S. EPA ID Number
MI0050263871

8. Designated Facility Name and Site Address
~~Arnold~~
Wayne Disposal Inc
49350 N I-94 Service Dr
Belleville MI 48111
Facility's Phone: 800-592-5489
U.S. EPA ID Number
MID04090633

9a. HM	9b. U.S. DOT Description (Including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. NA3077, Hazardous Waste Solids N.O.S. (F002), 9, PGII- ERG#171	17	DM	8500	P	F002
X	2. ~~NA3082, Hazardous Waste Liquids N.O.S. (F002), 9, PGII ERG# 171~~ RR 11/19/13	~~1~~	~~Dm~~	~~55~~	~~G~~	~~F002~~
	3.					
	4.					

14. Special Handling Instructions and Additional Information
I132084 WDI-PCE Contaminated Soil
~~I32085WDI-PCE Contaminated Water~~
AWT p.o. # 13184-JLH

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: STEFAN BAGNATO ON BEHALF OF NYSDEC
Signature: [signature]
Month 11 Day 15 Year 13

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name	Signature	Month	Day	Year
STEVE KLOMPITCH	[signature]	11	15	13
Transporter 2 Printed/Typed Name: RYAN RUSHMAN	Signature: [signature]	11	19	13

DESIGNATED FACILITY

18. Discrepancy ~~Container/Incorrect per Melissa Pickabaugh~~ witnessed AMG 11/29/13

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Line 2 removed off WDI manifest
Per Jean rec Hack - RR 11/11/13
Manifest Reference Number: 011854672 JJK

18b. Alternate Facility (or Generator) U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name	Signature	Month	Day	Year
M. K Wnk	[signature]	11	25	13

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete. DESIGNATED FACILITY TO GENERATOR

IRM Soil

NY5223565-002 SC PPW 3/3/2011

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	NYP000969444	1	(800)483-3718	005624716 FLE

GENERATOR

5. Generator's Name and Mailing Address
NYSDEC
625 Broadway
Albany, NY 12233

Generator's Site Address (if different than mailing address)
13 Willow Street
Cohoes, NY 12407

Generator's Phone:

6. Transporter 1 Company Name
~~Clean Harbors Environmental Services Inc~~ US BULK TRANSPORT INC

U.S. EPA ID Number
~~MAD039322250~~ PADØ8T347515

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address
Clean Harbors Canada Inc
4090 Telfer Road RR#1
Corunna, ON NON 1G0
(519)864-1021

U.S. EPA ID Number
MIR000035204

Facility's Phone:

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN2811, WASTE TOXIC SOLIDS, ORGANIC, N.O.S., (TETRACHLOROETHENE), 6.1, PG III	1	DT	EST 32	T	F002
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1.CH626320B ERG#154

CHES of Glenmont EPA ID# NYD 986871622 is Acting AS primary exporter on behalf of generator

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: STEFAN BAGNATO ON BEHALF OF NYSDEC
Signature:
Month: 05 Day: 20 Year: 13

INT'L

16. International Shipments ☒ Import to U.S. ☒ Export from U.S. Port of ~~entry~~/exit: Buffalo NY
Transporter signature (for exports only): Date leaving U.S.: 5/20/13

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Scott Smith
Signature:
Month: 05 Day: 20 Year: 13

Transporter 2 Printed/Typed Name:
Signature:
Month: Day: Year:

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month: Day: Year:

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H141			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Wendy Vye
Signature:
Month: 05 Day: 21 Year: 13

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Clean Harbors has the appropriate permits for and will accept the waste the generator is shipping.

MOVEMENT DOCUMENT / MANIFEST
DOCUMENT DE MOUVEMENT / MANIFESTE

This Movement document/manifest conforms to all federal and provincial transport and environmental legislation.
Ce document de mouvement/manifeste est conforme aux législations fédérale et provinciale sur l'environnement et le transport.

WS25341-9

Movement Document / Manifest Reference No.
N° de référence du document de mouvement/manifeste

A Generator / consignor / Producteur / expéditeur — Registration No. / Provincial ID No. / N° d'immatriculation - d'id. provincial 1: NYD 986871 622

Company name / Nom de l'entreprise: Clean Harbors Environmental Services

Mailing address / Adresse postale: Same As Below — City / Ville — Province — Postal code / Code postal

E-mail / Courriel électronique: N/A — Tel. No. / N° de tél.: 518 434-0149

Shipping site address / Adresse du lieu de l'expédition: 32 Bask Rd

City / Ville: Glenmont — Province: NY — Postal code / Code postal: 12077

Intended Receiver / consignee / Réceptionnaire / destinataire prévu 2: Clean Harbors Canada Inc — Registration No. / Provincial ID No. / N° d'immatriculation - d'id. provincial: A-031806

Mailing address / Adresse postale: Same As Below — City / Ville — Province — Postal code / Code postal

E-mail / Courriel électronique: N/A — Tel. No. / N° de tél.: 519 864-3892

Receiving site address / Adresse du lieu de l'expédition: 4090 Telfer Road RR#1

City / Ville: Corunna — Province: ON — Postal code / Code postal: N0N 1G0

B Carrier / Transporteur — Registration No. / Provincial ID No. / N° d'immatriculation - d'id. provincial 23: A821221

Company name / Nom de l'entreprise: US Bulk Transport Inc

Mailing address / Adresse postale: 205 Rennsselaer Dr — City / Ville: Erie — Province: PA — Postal code / Code postal: 16509

E-mail / Courrier électronique — Tel. No. / N° de tél.: EIA 8244109

Vehicle / Véhicule — Registration No. / N° d'immatriculation — Prov. 24

Trailer - Rail car No. 1 / 1e remorque - wagon: AE9418K — NY

Trailer - Rail car No. 2 / 2e remorque - wagon:

Port of entry / Point d'entrée: Fort Erie ON — Port of exit / Point de sortie: International use only 25

Carrier Certification : I certify that I have received waste or recyclable material from the generator / consignor for delivery to the receiver / consignee as set out in Part A and that the information contained in Part B is complete and correct. Attestation du transporteur : J'atteste avoir reçu les déchets ou matières recyclables du producteur / expéditeur en vue de leur livraison au réceptionnaire / destinataire, tels qu'ils figurent à la partie A et que les renseignements inscrits à la partie B sont exacts et complets. 26

Name of authorized person (print) / Nom de l'agent autorisé (caractères d'imprimerie): Scott Smith — Tel. No. / N° de tél.: 800 692 8910

Year / Année: 13 — Month / Mois: 05 — Day / Jour: 20 — Signature:

Reference Nos. of other movement document(s)/manifest(s) used / N° de référence des autres documents de mouvement/manifestes utilisés: 005624716 FLE

C Receiver / consignee / Réceptionnaire / destinataire — Registration No. / Provincial ID No. / N° d'immatriculation - d'id. provincial: A031806

Receiver / consignee information same as in Part A / Les renseignements du réceptionnaire / destinataire est la même qu'à la Partie A: ☒ Yes / Oui ☐ No, complete the box below / Non, remplir la case ci-dessous

Company name / Nom de l'entreprise

Mailing address / Adresse postale

City / Ville — Province — Postal code / Code postal

E-mail / Courrier électronique — Tel. No. / N° de tél.

Receiving site address / Adresse du lieu de destination: Same

Date received / Date de réception — Year / Année: 13 — Month / Mois: 05 — Day / Jour: 21 — Time / Heure: 0911 ☒ A.M. ☐ P.M.

If waste or recyclable material to be transferred, specify intended company name/ Si les déchets ou matières recyclables doivent être transférés, préciser le nom du destinataire 30 — Registration No./Provincial ID No. / N° d'immatriculation/d'id provincia

	Prov. code / Code prov. 3	Shipping name / Appellation réglementaire 4	Class / Classe 5	Sub. class(es) / Classe(s) sub.	UN No. / N°NU 6	Packing / risk gr. / Gr. d'emballage / de risque 7	Quantity shipped / Quantité expédiée 8	Units / L or / ou Kg / Unités 8	Packaging/Contenant 9 No. / N°	Codes	Int – ext.	Phys. state / État phys. 10
(i)	241 H	Waste Toxic Soil Organic N.O.S (tetrachloroethene)	6.1		UN 2811	III	29030	KG	1	6		504
(ii)												
(iii)												
(iv)												

	Quantity received / Quantité reçue	Units / L or / ou kg / Unités 31	Comments / Commentaires 32	Handling Code / Code de manutention 33	Shipment / Envoi 34 Accepted / Accepté	Refused / Refusé	Decon Pack. / Cont.
(i)		Kg		03			
(ii)							
(iii)							
(iv)							

	Notice No. / N° de notification 11	Notice Line No / N° de ligne de la notification	Shipment / Envoi 12	Of / De	D or R code / Code D ou R 13	C code / Code C 14	Basel Annex VIII or OECD Code / Annexe VIII de Bâle ou Code OCDE 15	H code / Code H 16	Y code / Code Y 17	National code in country of / Code du pays 18 Export / Exportation	Import / Importation	Customs code(s) / Code(s) de douane 19
(i)	534970	2	5	250	D05	C42	A4030	H61	Y42	NA	NA	3825.61.00.00
(ii)												
(iii)	International use only											
(iv)												

If handling code "Other" (specify) / Si code de manutention « autre » (spécifier)

Receiver / consignee certification : I certify that the information contained in Part C is correct and complete. / Attestation du réceptionnaire / destinataire : J'atteste que tous les renseignements à la partie C sont exacts et complets.

Name of authorized person (print) / Nom de l'agent autorisé (caractère d'imprimerie): Wendy Vye

Signature — Tel. No. / N° de tél.: 5198641021

Special handling / Manutention spéciale: ☐ Attached / Ci-joint: ☐ As follows / Ci-contre: 1-800-483-3718

Generator / consignor certification: I certify that the information contained in Part A is correct and complete. Attestation du producteur / expéditeur: J'atteste que tous les renseignements à la partie A sont exacts et complets.

Name of authorized person (print) / Nom de l'agent autorisé (caractère d'imprimerie): Arthur Bellini — Signature: Arthur Bellini — Tel. No. / N° de tél.: 518 434-0149 20

21 Date shipped / Date d'expédition — Year / Année: 13 — Month / Mois: 05 — Day / Jour: 20 — Time / Heure: 1045 ☒ A.M. ☐ P.M. — Scheduled arrival date / Date d'arrivée prév — Year / Année — Month / Mois — Day / Jo

MOE 04-1917 (07/07)

Instructions for completion and distribution on reverse / Instructions pour compléter et distribuer au verso

Copy / Copie 3 (yellow / jaun

CleanHarbors
ENVIRONMENTAL SERVICES®

Land Disposal Restriction Notification Form

Printed Date :May 16, 2013

MANIFEST INFORMATION

Generator : NYSDEC

Address: 13 Willow Street
Cohoes,NY 12407

EPA ID #: N Y P 0 0 0 9 6 9 4 4 4

Manifest Tracking Info.

005624716

Sales Order No: NY5223565-002

LINE ITEM INFORMATION

Line Item:	Page No:	Profile No:	Treatability Group:	LDR Disposal Category
1.	1	CH626320B	NON-WASTEWATER	2 (This is subject to LDR.)

EPA Waste Code	EPA Waste SubCategory
F002	NONE

LDR Chemical Data

Chemical	Underlying Hazardous Constituents	Constituents of Concern	Contaminants Subject to Treatment
TETRACHLOROETHYLENE	N	Y	N

Certification	Applies to Manifest Line Items
Pursuant to 40 CFR 268.7(a), I hereby notify that this shipment contains waste restricted under 40 CFR Part 268.	1.

Waste analysis data, where available, is attached.

Signature : SBF ON BEHALF OF NYSDEC Print Name STEFAN BAGNATO

Title : PROJECT GEOLOGIST Date : 5/21/13

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) NY5223565-002 SC PPW 3/3/2011 Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	NYP000969444	1	(800) 483-3718	005624739 FLE

GENERATOR

5. Generator's Name and Mailing Address
NYSDEC
625 Broadway
Albany, NY 12233
Generator's Phone:

Generator's Site Address (if different than mailing address)
13 Willow Street
Cohoes, NY 12407

6. Transporter 1 Company Name: ~~Clean Harbors Environmental Services Inc~~ US Bulk Transport Inc — U.S. EPA ID Number: ~~MAD039322250~~ PAD087347515

7. Transporter 2 Company Name: 958 — U.S. EPA ID Number: 958

8. Designated Facility Name and Site Address
Clean Harbors Canada Inc
4090 Telfer Road RR#1
Corunna, ON N0N 1G0
Facility's Phone: (519) 864-1021

U.S. EPA ID Number: MIR000035204

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. UN2811, WASTE TOXIC SOLIDS, ORGANIC, N.O.S., (TETRACHLOROETHENE), 6.1, PG III	01	DT	est 46000	P	F002		
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
1.CH626320B ERG#154

CHES of Glenmont EPA ID# NYD 986971622 is acting as primary exporter on behalf of generator

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: ON BEHALF OF NYSDEC STEFAN BAGNATO — Signature: [signature] — Month: 5 Day: 15 Year: 13

INT'L

16. International Shipments ☐ Import to U.S. ☑ Export from U.S. Port of entry/exit: Lewiston/Queenston
Transporter signature (for exports only): [signature] Date leaving U.S.: 5/15/13

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Gary Frable — Signature: [signature] — Month: 05 Day: 15 Year: 13
Transporter 2 Printed/Typed Name: — Signature: — Month: Day: Year:

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) — Month: Day: Year:

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H141			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Wendy Vyle — Signature: [signature] — Month: 05 Day: 16 Year: 13

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Clean Harbors has the appropriate permits for and will accept the waste the generator is shipping.

MOVEMENT DOCUMENT / MANIFEST
DOCUMENT DE MOUVEMENT / MANIFESTE

This Movement document/manifest conforms to all federal and provincial transport and environmental legislation.
Ce document de mouvement/manifeste est conforme aux législations fédérale et provinciale sur l'environnement et le transport.

WS25337-7

Movement Document / Manifest Reference No.
N° de référence du document de mouvement/manifeste

A Generator / consignor / Producteur / expéditeur
Registration No. / Provincial ID No. / N° d'immatriculation - d'id. provincial: NYD 986871622
Company name / Nom de l'entreprise: Clean Harbors Environmental Service
Mailing address / Adresse postale: Same As Below
City / Ville:
Province:
Postal code / Code postal:
E-mail / Courrier électronique: N/A
Tel. No. / N° de tél.: 518 434-0149
Shipping site address / Adresse du lieu de l'expédition: 32 Bask Rd
City / Ville: Glenmont
Province: NY
Postal code / Code postal: 12077

B Carrier / Transporteur
Registration No. / Provincial ID No. / N° d'immatriculation - d'id. provincial: A921221
Company name / Nom de l'entreprise: 45 Bulk Transport Inc
Mailing address / Adresse postale: 205 Pennbriar Erie
City / Ville:
Province: Pa
Postal code / Code postal: 16509
E-mail / Courrier électronique:
Tel. No. / N° de tél.: 800, 642 8910
Vehicle / Véhicule
Trailer - Rail car No. 1 / 1re remorque - wagon: Registration No. / N° d'immatriculation: XK14799 Prov.: PA
Trailer - Rail car No. 2 / 2e remorque - wagon:
Port of entry / Point d'entrée: International use only
Port of exit / Point de sortie: International use only

C Receiver / consignee / Réceptionnaire / destinataire
Registration No. / Provincial ID No. / N° d'immatriculation - d'id. provincial: A301806
Receiver / consignee information same as in Part A / Les renseignements du réceptionnaire / destinataire est la même qu'à la Partie A
[X] Yes / Oui [ ] No, complete the box below / Non, remplir la case ci-dessous
Company name / Nom de l'entreprise:
Mailing address / Adresse postale:
City / Ville:
Province:
Postal code / Code postal:
E-mail / Courrier électronique:
Tel. No. / N° de tél.:
Receiving site address / Adresse du lieu de destination: Same

Reference Nos. of other movement document(s)/manifest(s) used / N° de référence des autres documents de mouvement/manifeste utilisés: 005624739FLE

Intended Receiver / consignee / Réceptionnaire / destinataire prévu (2)
Registration No. / Provincial ID No. / N° d'immatriculation - d'id. provincial: A-301806
Clean Harbors Canada Inc
Mailing address / Adresse postale: Same As Below
City / Ville:
Province:
Postal code / Code postal:
E-mail / Courrier électronique: N/A
Tel. No. / N° de tél.: 519 864-3892
Receiving site address / Adresse du lieu de l'expédition: 4090 Telker Road RR #1
City / Ville: Corunna
Province: ON
Postal code / Code postal: N0N1G0

Carrier Certification : *I certify that I have received waste or recyclable material from the generator / consignor for delivery to the receiver / consignee as set out in Part A and that the information contained in Part B is complete and correct.* **Attestation du transporteur :** *J'atteste avoir reçu les déchets ou matières recyclables du producteur / expéditeur en vue de leur livraison au réceptionnaire / destinataire tels qu'ils figurent à la partie A et que les renseignements inscrits à la partie B sont exacts et complets.* (26)
Name of authorized person (print) / Nom de l'agent autorisé (caractères d'imprimerie): Gary Frable
Tel. No. / N° de tél.: 800 642 8910
Year / Année: 13 Month / Mois: 05 Day / Jour: 15
Signature: Gary Frable

Date received / Date de réception: Year / Année: 13 Month / Mois: 05 Day / Jour: 16
Time / Heure: 0940 [X] A.M. [ ] P.M.

If waste or recyclable material to be transferred, specify intended company name / Si les déchets ou matières recyclables doivent être transférés, préciser le nom du destinataire (30)
Registration No./Provincial ID / N° d'immatriculation/d'id provi

	Prov. code / Code prov. (3)	Shipping name / Appellation réglementaire (4)	Class / Classe Sub. class(es) / Classe(s) sub. (5)	UN No. / N° NU (6)	Packing / risk gr. / Gr. d'emballage / de risque (7)	Quantity shipped / Quantité expédiée	Units / L or / ou Kg / Unités (8)	Packaging / Contenant No. / N° (9)	Codes Int.	Codes ext.	Phys. state / État phys. (10)
(i)	241-H	Waste Toxic Solid Organic NOS (Tetrachloroethene)	6.1	UN2811	III	20365	KG	1	6		S04
(ii)											
(iii)											
(iv)											

	Quantity received / Quantité reçue	Units / L or / ou Kg / Unités (31)	Comments / Commentaires (32)	Handling Code / Code de manutention (33)	Shipment / Envoi Accepted / Accepté (34)	Refused / Refusé	Dec. Pack. Cont.
(i)		Kg		03			
(ii)							
(iii)							
(iv)							

	Notice No. / N° de notification (11)	Notice Line No / N° de ligne de la notification	Shipment / Envoi (12)	Of / De	D or R code / Code D ou R (13)	C code / Code C (14)	Basel Annex VIII or OECD Code / Annexe VIII de Bâle ou Code OCDE (15)	H code / Code H (16)	Y code / Code Y (17)	National code in country of / Code du pays (18) Export / Exportation	Import / Importation	Customs code(s) / Code(s) de douanes (19)
(i)	524970	2	1	250	D05	C42	A4030	H6.1	Y42	NA	NA	3825.61.00 00
(ii)												
(iii)	International use only											
(iv)												

If handling code "Other" (specify) / Si code de manutention « autre » (spécifier)

Receiver / consignee certification : *I certify that the information contained in Part C is correct and complete.* / **Attestation du réceptionnaire / destinataire :** *J'atteste que tous les renseignements à la partie C sont exacts et complets.*
Name of authorized person (print) / Nom de l'agent autorisé (caractère d'imprimerie): Wendy Vye
Signature:
Tel. No. / N° de tél.: 519 864 1021

Special handling / Manutention spéciale (22)
[ ] Attached / Ci-joint [X] As follows / Ci-contre: 1-800-483-3718

Generator / consignor certification: *I certify that the information contained in Part A is correct and complete.* / **Attestation du producteur / expéditeur:** *J'atteste que tous les renseignements à la partie A sont exacts et complets.*
Name of authorized person (print) / Nom de l'agent autorisé (caractère d'imprimerie): Arthur Bellar
Signature: Arthur Bellar
Tel. No. / N° de tél.: 518, 434-0149 (20)

Date shipped / Date d'expédition (21): Year / Année: 13 Month / Mois: 05 Day / Jour: 15 Time / Heure: [X] A.M. [ ] P.M. 1130
Scheduled arrival date / Date d'arrivée prévu: Year / Année: 13 Month / Mois: 05 Day / Jour: 15

MOE 04-1917 (07/07)

Instructions for completion and distribution on reverse / Instructions pour compléter et distribuer au verso

Copy / Copie 3 (yellow / jaun

NY5223565-002 SC PPW 3/3/2011

Form Approved. OMB No. 2050-0039

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number NYP000969444	2. Page 1 of 1	3. Emergency Response Phone (800) 453-3715	4. Manifest Tracking Number 005624740 FLE

5. Generator's Name and Mailing Address
NYSDEC
625 Broadway
Albany, NY 12233

Generator's Site Address (if different than mailing address)
13 Willow Street
Cohoes, NY 12407

Generator's Phone:

6. Transporter 1 Company Name
X Clean Harbors Environmental Services Inc US BULK TRANSPORT INC

U.S. EPA ID Number
~~MAD039322950~~ PAD987347515

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address
Clean Harbors Canada Inc
4090 Telfer Road RR#1
Corunna, ON N0N 1G0
(519) 864-1021

U.S. EPA ID Number
MIR000035204

Facility's Phone:

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN2811, WASTE TOXIC SOLIDS, ORGANIC, N.O.S., (TETRACHLOROETHENE), 6.1, PG III	1	DT	32	T	F002
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. CR626320B ERG#154

CHES of Glenmont EPAID#NYD986871622 is Acting As primary exporter on behalf of generator

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: ON BEHALF OF NYSDEC STEFAN BIGNATO
Signature: [signature]
Month 3 Day 15 Year 13

16. International Shipments ☐ Import to U.S. ☒ Export from U.S. Port of entry/exit: LEWISTON/QUEENSTON
Transporter signature (for exports only): [signature] Date leaving U.S.: 5/15/13

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: [illegible]
Signature: [signature]
Month 05 Day 15 Year 13

Transporter 2 Printed/Typed Name
Signature
Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H141			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Ronda Hayward
Signature: Ronda Hayward
Month 05 Day 16 Year 13

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Clean Harbors has the appropriate permits for and will accept the waste this generator is shipping

MOVEMENT DOCUMENT / MANIFEST
DOCUMENT DE MOUVEMENT / MANIFESTE

This Movement document/manifest conforms to all federal and provincial transport and environmental legislation.
Ce document de mouvement/manifeste est conforme aux législations fédérale et provinciale sur l'environnement et le transport.

WS25338-5

Movement Document / Manifest Reference No.
N° de référence du document de mouvement/manifeste

A Generator / consignor / Producteur / expéditeur — Registration No. / Provincial ID No. / N° d'immatriculation - d'id. provincial 1
NYD 986971622
Company name / Nom de l'entreprise: Clean Harbors Environmental Services
Mailing address / Adresse postale: Same As Below | City / Ville | Province | Postal code / Code postal
E-mail / Courrier électronique: N/A | Tel. No. / N° de tél.: 518 434-0149
Shipping site address / Adresse du lieu de l'expédition: 32 Bask Rd
City / Ville: Glenmont | Province: NY | Postal code / Code postal: 12077

B Carrier / Transporteur — Registration No. / Provincial ID No. / N° d'immatriculation - d'id. provincial 23
AB21221
Company name / Nom de l'entreprise: US Bulk
Mailing address / Adresse postale: 205 Pennbriar Dr | City / Ville: Erie | Province: PA | Postal code / Code postal: 16509
E-mail / Courrier électronique | Tel. No. / N° de tél.: 800 642 5910
Vehicle / Véhicule — Trailer - Rail car No. 1 / 1re remorque - wagon: AE 941K | Prov. 24: NY
Trailer - Rail car No. 2 / 2e remorque - wagon
Port of entry / Point d'entrée: Queenston ON | Port of exit / Point de sortie | International use only 25

C Receiver / consignee / Réceptionnaire / destinataire — Registration No. / Provincial ID No. / N° d'immatriculation - d'id. provincial
AO31806
Reference Nos. of other movement document(s)/manifest(s) used / N° de référence des autres documents de mouvement/manifestes utilisés: 005624740 FLE
Receiver / consignee information same as in Part A / Les renseignements du réceptionnaire / destinataire est la même qu'à la Partie A: ☑ Yes / Oui ☐ No, complete the box below / Non, remplir la case ci-dessous
Company name / Nom de l'entreprise
Mailing address / Adresse postale | City / Ville | Province | Postal code / Code postal
E-mail / Courrier électronique | Tel. No. / N° de tél.
Receiving site address / Adresse du lieu de destination: Same

Intended Receiver / consignee / Réceptionnaire / destinataire prévu 2 — Registration No. / Provincial ID No. / N° d'immatriculation - d'id. provincial
Clean Harbors Canada Inc | A-031806
Mailing address / Adresse postale: 107 Same As Below | City / Ville | Province | Postal code / Code postal
E-mail / Courrier électronique: N/A | Tel. No. / N° de tél.: 519 864-3892
Receiving site address / Adresse du lieu de l'expédition: 4090 Telfer Road RR #1
City / Ville: Corunna | Province: ON | Postal code / Code postal: N0N1G0

Carrier Certification : *I certify that I have received waste or recyclable material from the generator / consignor for delivery to the receiver / consignee as set out in Part A and that the information contained in Part B is complete and correct.*
Attestation du transporteur : *J'atteste avoir reçu les déchets ou matières recyclables du producteur / expéditeur en vue de leur livraison au réceptionnaire / destinataire, tels qu'ils figurent à la partie A et que les renseignements inscrits à la partie B sont exacts et complets.* 26
Name of authorized person (print) / Nom de l'agent autorisé (caractère d'imprimerie): Scott Smith | Tel. No. / N° de tél.: 800 642 5910
Year / Année: 13 | Month / Mois: 05 | Day / Jour: 15 | Signature: Scott Smith

Date received / Date de réception: Year / Année: 13 | Month / Mois: 05 | Day / Jour: 16 | Time / Heure: 938 ☑ A.M. ☐ P.M. 27
If waste or recyclable material to be transferred, specify intended company name/ Si les déchets ou matières recyclables doivent être transférés, préciser le nom du destinataire 30 | Registration No./Provincial ID No. / N° d'immatriculation/d'id.provincial

(i)	Prov. code / Code prov. 3	Shipping name / Appellation réglementaire 4	Class / Classe 5 / Sub. class(es) / Classe(s) sub.	UN No. / N° NU 6	Packing / risk gr. / Gr. d'emballage / de risque 7	Quantity shipped / Quantité expédiée	Units / L or / ou Kg / Unités 8	Packaging / Contenant 9 — No. / N°	Codes	Int. – ext.	Phys. state / État phys. 10	Quantity received / Quantité reçue	Units 31 / L or / ou Kg / Unités	Comments / Commentaires 32	Handling Code / Code de manutention 33	Shipment / Envoi 34 — Accepted / Accepté	Refused / Refusé	Decont. Pack. / Cont.	V.
(i)	Z41-11	Waste Toxic Sol. Organic N.O.S. (tetrachloroethene)	6.1	UN 2811	III	E51 29030	KG	1	6		S04		KG		03				
(ii)																			
(iii)																			
(iv)																			

	Notice No. / N° de notification 11	Notice Line No / N° de ligne de la notification	Shipment / Envoi 12	Of / De	D or R code / Code D ou R 13	C code / Code C 14	Basel Annex VIII or OECD Code / Annexe VIII de Bâle ou Code OCDE 15	H code / Code H 16	Y code / Code Y 17	National code in country of / Code du pays 18 — Export / Exportation	Import / Importation	Customs code(s) / Code(s) de douanes 19
(i)	524970	2	2	250	DOS	C42	A4030	H61	Y42	NA	NA	3825.61 00.00
(ii)	International use only											
(iii)												
(iv)												

If handling code "Other" (specify) / Si code de manutention « autre » (spécifier)

Receiver / consignee certification : *I certify that the information contained in Part C is correct and complete.* / **Attestation du réceptionnaire / destinataire :** *J'atteste que tous les renseignements à la partie C sont exacts et complets.*
Name of authorized person (print) / Nom de l'agent autorisé (caractère d'imprimerie): Konda Hayward
Signature: Konda Hayward | Tel. No. / N° de tél.: 5198641D2
Special handling / Manutention spéciale: ☐ Attached / Ci-joint ☐ As follows / Ci-contre: 24 hour RE 1 800 453 3718

Generator / consignor certification: *I certify that the information contained in Part A is correct and complete.*
Attestation du producteur / expéditeur: *J'atteste que tous les renseignements à la partie A sont exacts et complets.*
Name of authorized person (print) / Nom de l'agent autorisé (caractère d'imprimerie): Arthur Beller | Signature: Arthur Beller | Tel. No. / N° de tél.: 518 434-0149 20

21 Date shipped / Date d'expédition: Year / Année: 13 | Month / Mois: 05 | Day / Jour: 15 | Time / Heure: ☐ A.M. ☑ P.M. 1430 | Scheduled arrival date / Date d'arrivée prévu: Year / Année: 13 | Month / Mois: 05 | Day / Jo: 15

MOE 04-1917 (07/07)

Instructions for completion and distribution on reverse / Instructions pour compléter et distribuer au verso

Copy / Copie 3 (yellow / jaun

NY5223566-002 SC PFW 3/3/2011

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	NYP000969444	1	(800)483-3718	005624743 FLE

GENERATOR

5. Generator's Name and Mailing Address
NYSDEC
625 Broadway
Albany, NY 12233
Generator's Phone:

Generator's Site Address (if different than mailing address)
13 Willow Street
Cohoes, NY 12407

6. Transporter 1 Company Name
~~Clean Harbors Environmental Services Inc~~ US Bulk Transport Inc
U.S. EPA ID Number
~~MAD039322250~~ AD 987347515

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
Clean Harbors Canada Inc
4090 Telfer Road RR#1
Corunna, ON N0N 1G0
Facility's Phone: (519)864-1021
U.S. EPA ID Number
MIR000035204

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. UN2811, WASTE TOXIC SOLIDS, ORGANIC, N.O.S., (TETRACHLOROETHENE), 6.1, PG III	1	OT	EST. 22	Tons	F002		
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
1.CH626320B ERG#154

CHESS Clement EPA I.D# NYD986871622 is Acting as primary exporter on behalf of generator

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: STEFAN BACNATO ON BEHALF OF NYSDEC
Signature:
Month: 05 Day: 16 Year: 13

INTL

16. International Shipments ☐ Import to U.S. ☒ Export from U.S. Port of entry/exit: Buffalo NY
Transporter signature (for exports only): Date leaving U.S.: 5/16/13

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: JAY L FAUCY
Signature:
Month: 05 Day: 16 Year: 13

Transporter 2 Printed/Typed Name:
Signature:
Month: Day: Year:

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month: Day: Year:

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H141 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Wendy Vye
Signature:
Month: 05 Day: 17 Year: 13

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Clean Harbors has the appropriate permits for and will accept the waste the generator is shipping.

MOVEMENT DOCUMENT / MANIFEST
DOCUMENT DE MOUVEMENT / MANIFESTE

This Movement document/manifest conforms to all federal and provincial transport and environmental legislation.
Ce document de mouvement/manifeste est conforme aux législations fédérale et provinciale sur l'environnement et le transport.

WS25339-3

Movement Document / Manifest Reference No.
N° de référence du document de mouvement/manifeste

A Generator / consignor / Producteur / expéditeur — Registration No. / Provincial ID No. / N° d'immatriculation - d'id. provincial 1
NYD 986871622
Company name / Nom de l'entreprise: Clean Harbors Environmental Services
Mailing address / Adresse postale: Same As Below — City / Ville — Province — Postal code / Code postal
E-mail / Courrier électronique: N/A — Tel. No. / N° de tél.: 518 434-0149
Shipping site address / Adresse du lieu de l'expédition: 32 Bask Rd
City / Ville: Colonmont — Province: NY — Postal code / Code postal: 12077

Intended Receiver / consignee / Réceptionnaire / destinataire prévu 2 — Registration No. / Provincial ID No. / N° d'immatriculation - d'id. provincial: Clean Harbors Canada Inc — A-031806
Mailing address / Adresse postale: Same As Below — City / Ville — Province — Postal code / Code postal
E-mail / Courrier électronique: N/A — Tel. No. / N° de tél.: 519 864-3892
Receiving site address / Adresse du lieu de l'expédition: 4090 Telfer Road RR #1
City / Ville: Corunna — Province: ON — Postal code / Code postal: N0N 1G0

B Carrier / Transporteur — Registration No. / Provincial ID No. / N° d'immatriculation - d'id. provincial 23
AB21221
Company name / Nom de l'entreprise: US Bulk Transport, Inc.
Mailing address / Adresse postale: 205 Pennbriar Drive — City / Ville: Erie — Province: PA — Postal code / Code postal: 16509
E-mail / Courrier électronique — Tel. No. / N° de tél.: (814) 834-9109

Vehicle / Véhicule — Registration No. / N° d'immatriculation — Prov. 24
Trailer - Rail car No. 1 / 1re remorque - wagon: PT 2158M — PA
Trailer - Rail car No. 2 / 2e remorque - wagon:

Port of entry / Point d'entrée: Fort Erie — International use only — Port of exit / Point de sortie — International use only 25

Carrier Certification: I certify that I have received waste or recyclable material from the generator / consignor for delivery to the receiver / consignee as set out in Part A and that the information contained in Part B is complete and correct. / Attestation du transporteur : J'atteste avoir reçu les déchets ou matières recyclables du producteur / expéditeur en vue de leur livraison au réceptionnaire / destinataire, tels qu'ils figurent à la partie A et que les renseignements inscrits à la partie B sont exacts et complets. 26
Name of authorized person (print) / Nom de l'agent autorisé (caractères d'imprimerie): Sara L. Lauzy — Tel. No. / N° de tél.: 8006428910
Year / Année: 13 — Month / Mois: 05 — Day / Jour: 16 — Signature:

Reference Nos. of other movement document(s)/manifest(s) used / N° de référence des autres documents de mouvement/manifeste utilisés: 005624743FLE

C Receiver / consignee / Réceptionnaire / destinataire — Registration No. / Provincial ID No. / N° d'immatriculation - d'id. provincial: A031806
Receiver / consignee information same as in Part A / Les renseignements du réceptionnaire / destinataire est la même qu'à la Partie A: ☒ Yes / Oui ☐ No, complete the box below / Non, remplir la case ci-dessous
Company name / Nom de l'entreprise
Mailing address / Adresse postale
City / Ville — Province — Postal code / Code postal
E-mail / Courrier électronique — Tel. No. / N° de tél. ( )
Receiving site address / Adresse du lieu de destination: Same

Date received / Date de réception — Year / Année: 13 — Month / Mois: 05 — Day / Jour: 17 — Time / Heure: 0919 ☒ A.M. ☐ P.M.

If waste or recyclable material to be transferred, specify Intended company name / Si les déchets ou matières recyclables doivent être transférés, préciser le nom du destinataire 30 — Registration No./Provincial ID No. / N° d'immatriculation/d'id provincial

	Prov. code / Code prov. 3	Shipping name / Appellation réglementaire 4	Class / Classe 5	Sub. class(es) / Classe(s) sub.	UN No. / N° NU 6	Packing / pack. gr. / Gr. d'emballage / de risque 7	Quantity shipped / Quantité expédiée	Units / L or / ou Kg / Unités 8	Packaging/Container / No. / N°	Codes	Int. – ext.	Phys. state / État phys. 10
(i)	24)-H	WASTE TOXIC SOLID ORGANIC N.O.S (tetrachloroethene)	6.1		UN 2811	III	EST 19958	KG	1	6		SOL
(ii)												
(iii)												
(iv)												

Quantity received / Quantité reçue	Units / L or / ou Kg / Unités 31	Comments / Commentaires 32	Handling Code / Code de manutention 33	Shipment / Envoi — Accepted / Accepté	Refused / Refusé 34	Decon: Pack. / Cont.	V
	KG		03				

	Notice No. / N° de notification 11	Notice Line No. / N° de ligne de la notification	Shipment / Envoi 12	Of / De	D or R code / Code D ou R 13	C code / Code C 14	Basel Annex VIII or OECD Code / Annexe VIII de Bâle ou Code OCDE 15	H code / Code H 16	Y code / Code Y 17	National code in country of / Code du pays — Export / Exportation 18	Import / Importation	Customs code(s) / Code(s) de douanes 19
(i)	524970	2	3	250	D05	C42	A4030	11.6.1	Y42	NA	NA	3825.61 0000
(ii)												
(iii)	International use only											
(iv)												

If handling code "Other" (specify) / Si code de manutention « autre » (spécifier)

Receiver / consignee certification: I certify that the information contained in Part C is correct and complete. / Attestation du réceptionnaire / destinataire : J'atteste que tous les renseignements à la partie C sont exacts et complets.
Name of authorized person (print) / Nom de l'agent autorisé (caractère d'imprimerie): Wendy Uye
Signature:
Tel. No. / N° de tél.: 5198641000

Special handling / Manutention spéciale: ☐ Attached / Ci-joint. ☐ As follows / Ci-contre
24 hour # 1-800-483-3718

Generator / consignor certification: I certify that the information contained in Part A is correct and complete. / Attestation du producteur / expéditeur : J'atteste que tous les renseignements à la partie A sont exacts et complets. 20
Name of authorized person (print) / Nom de l'agent autorisé (caractère d'imprimerie): Arthur Bellamy
Signature: Arthur Bellamy
Tel. No. / N° de tél.: 518 434-0149

Date shipped / Date d'expédition — Year / Année: 13 — Month / Mois: 05 — Day / Jour: 16 — Time / Heure: 1130 ☒ A.M. ☐ P.M. — Scheduled arrival date / Date d'arrivée prévu — Year / Année: 13 — Month / Mois: 05 — Day / Jo: 16

MOE 04-1917 (07/07)

Instructions for completion and distribution on reverse / Instructions pour compléter et distribuer au verso

Copy / Copie 3 (yellow / jaur

CLEAN HARBORS ENVIRONMENTAL SERVICES, INC.
LAND DISPOSAL RESTRICTYION NOTIFICATION FORM LDR-1

MANIFEST NO.: 005624743 FLE

THE HAZARDOUS WASTES IDENTIFIED ON THE HAZARDOUS WASTE MANIFEST IDENTIFIED ABOVE AND BEARING THE EPA HAZARDOUS WASTE CODES LISTED BELOW ARE RESTRICTED WASTES WHICH ARE PROHIBITED FROM LAND DISPOSAL WITHOUT FURTHER TREATMENT UNDER THE LAND DISPOSAL RESTRICTIONS, 40 CFR PART 268 AND RCRA SECTION 3004(D). IN ACCORDANCE WITH 40 CFR 268.7(a)(2), THE EPA WASTE CODE, WASTE SUBCATEGORY, AND TREATABILITY GROUPS, AS APPLICABLE, ARE INCLUDED BELOW.

INSTRUCTIONS -- COMPLETE ALL SECTIONS. REFER TO PAGE 3 OF THIS FORM FOR KEY TERMS/DEFINITIONS.

Column 1 - Line Item: Enter the manifest line item number (e.g., 11a) that corresponds to the waste code(s).

Column 2 - Waste Codes/Subcategory: Check off all applicable waste codes. For D001 through D043, also check applicable subcategory; for F001 through F005, check applicable constituents.

Column 3 - Wastewater/Non-wastewater: Check off "WW" for wastewater and "Non-WW" for non-wastewaters.

Column 4 - LDR Handling Code: Circle the appropriate handling code, as follows:

1 = The waste is a characteristic hazardous waste D001, D002, D003, D004-D011, or D018-43 which is intended for treatment/disposal in a CWA system, CWA-equivalent system, or Class I SDWA system. Underlying Hazardous Constituents (UHC's) are NOT required to be identified.

1A = The waste is a characteristic hazardous waste D001 High TOC Ignitable Liquids Subcategory (i.e., greater than or equal to 10% TOC). Pursuant to 40 CFR 268.40, the waste must be treated using organic recovery (RORGS) or combustion (CMBST) technology. UHC's are NOT required to be identified.

2 = The waste is a characteristic hazardous waste D001 (other than High TOC Ignitable Liquids), D002, D003 Explosive, Water Reactive or Other Reactive subcategory, D004-D011, D012-17 non-wastewater, or D018-43 which is intended for treatment/disposal in a non-CWA system, non-CWA-equivalent system, or non-Class I SDWA system located in the United States. All UHC's which are reasonably expected to be present must be identified, except for D001 waste that is intended to be treated using organic recovery (RORGS) or combustion (CMBST) technologies. Identify UHC's by completing Sections I and IV of CHI Form LDR-1 Addendum and attach completed Addendum to this form.

3 = The waste is a characteristic (i.e., D-code) or listed (i.e., F-, K-, U-, or P-code) hazardous waste which is intended for export and treatment/disposal at a facility located outside the United States. LDR treatment standards do not apply to hazardous waste treated/disposed in a foreign country, and per USEPA guidance, the identification of UHC's (if applicable) is not required for hazardous waste that is intended to be exported. Note however that if the exported waste is subsequently returned for treatment/disposal in the United States, all applicable LDR regulations would apply and a revised LDR notification would be required.

4 = The waste meets the definition of hazardous debris pursuant to 40 CFR 268.2(h) and is intended for treatment/disposal in compliance with the alternate debris treatment technologies of 40 CFR 268.45. In accordance with the requirements of 40 CFR 268.7(a)(2): the contaminants subject to treatment (CSTT's) must be identified as part of this notification. Identify CSTT's by completing Sections III and IV of CHI Form LDR-1 Addendum and attach completed Addendum to this form. These constituents are being treated to comply with 40 CFR 268.45.

5 = The waste is a characteristic waste D003 Reactive Sulfide, Reactive Cyanide, or Unexploded Ordnance subcategory, a characteristic waste D012-17 wastewater, or a listed (i.e., F-, K-, U-, or P-code) hazardous waste. UHC's are NOT required to be identified.

6 = The waste is a lab pack that is intended for incineration using the alternative lab pack treatment standard under 40 CFR 268.42(c). UHC's are NOT required to be identified; however, the generator must complete and attach the lab pack certification statement on CHI Form LDR-LP. Note that in accordance with 40 CFR Part 268 Appendix IV, lab packs which contain waste codes D009, F019, K003, K004, K005, K006, K062, K071, K100, K106, P010, P011, P012, P076, P078, U134, and U151 are not eligible for alternative lab pack treatment standard.

*** NOTE: IF THE WASTE IS A SOIL CONTAMINATED WITH A LISTED OR CHARACTERISTIC WASTE AND THE GENERATOR WANTS TO USE THE ALTERNATE TREATMENT STANDARD FOR SOILS, CONTACT CORPORATE COMPLIANCE FOR THE APPROPRIATE LDR NOTIFICATION FORM.

SECTION I. CHARACTERISTIC WASTES D001 THROUGH D043

COLUMN 1: LINE ITEM SEE MANIFEST	COLUMN 2: WASTE CODE / SUBCATEGORY	COLUMN 3: WASTEWATER/ NON-WASTEWATER	COLUMN 4: HANDLING CODE
_____	[ ] D001 Ignitables, except High TOC subcategory	[ ] WW [ ] Non-WW	1 2 3 4 6
_____	[ ] D001 High TOC Ignitable Liquids Subcategory (Greater than or equal to 10% TOC)	[ ] Non WW only	1A 3 6
_____	[ ] D002 Corrosives	[ ] WW [ ] Non-WW	1 2 3 4 6
_____	[ ] D003		
	[ ] Reactive Sulfide, per 261.23(a)(5)	[ ] WW [ ] Non-WW	1 3 4 5 6
	[ ] Reactive Cyanide, per 261.23(a)(5)	[ ] WW [ ] Non-WW	1 3 4 5 6
	[ ] Explosive, per 261.23(a)(6), (7) & (8)	[ ] WW [ ] Non-WW	1 2 3 4 6
	[ ] Water Reactive, per 261.23(a)(2), (3) & (4)	[ ] Non WW only	1 2 3 4 6
	[ ] Other Reactive, per 261.23(a)(1)	[ ] WW [ ] Non-WW	1 2 3 4 6
	[ ] Unexploded Ordnance, Emergency Response	[ ] WW [ ] Non-WW	1 3 4 5 6
_____	[ ] D004 Arsenic	[ ] WW [ ] Non-WW	1 2 3 4 6
_____	[ ] D005 Barium	[ ] WW [ ] Non-WW	1 2 3 4 6
_____	[ ] D006		
	[ ] Cadmium	[ ] WW [ ] Non-WW	1 2 3 4 6
	[ ] Cadmium Containing Batteries	[ ] Non WW only	2 3 6
_____	[ ] D007 Chromium	[ ] WW [ ] Non-WW	1 2 3 4 6
_____	[ ] D008		
	[ ] Lead	[ ] WW [ ] Non-WW	1 2 3 4 6
	[ ] Lead Acid Batteries	[ ] Non WW only	2 3 6

CLEAN HARBORS ENVIRONMENTAL SERVICES, INC.
LAND DISPOSAL RESTRICTYION NOTIFICATION FORM LDR-1

MANIFEST NO.: 005624743 FLE

SECTION I. CHARACTERISTIC WASTES D001 THROUGH D043 (continued)

COLUMN 1: LINE ITEM SEE MANIFEST	COLUMN 2: WASTE CODE / SUBCATEGORY	COLUMN 3: WASTEWATER/ NON-WASTEWATER	COLUMN 4: HANDLING CODE
_____	[ ] D009	[ ] WW [ ] Non-WW	1 2 3 4 6
	[ ] Low Mercury, less than 260 mg/kg Mercury	[ ] Non-WW only	2 3 6
	[ ] High Mercury Organic Subcategory	[ ] Non-WW only	2 3 6
	[ ] High Mercury Inorganic Subcategory		
_____	[ ] D010 Selenium	[ ] WW [ ] Non-WW	1 2 3 4 6
_____	[ ] D011 Silver	[ ] WW [ ] Non-WW	1 2 3 4 6
_____	[ ] D012 Endrin	[ ] WW [ ] Non-WW	2 3 4 5 6
_____	[ ] D013 Lindane	[ ] WW [ ] Non-WW	2 3 4 5 6
_____	[ ] D014 Methoxychlor	[ ] WW [ ] Non-WW	2 3 4 5 6
_____	[ ] D015 Toxaphene	[ ] WW [ ] Non-WW	2 3 4 5 6
_____	[ ] D016 2,4-D	[ ] WW [ ] Non-WW	2 3 4 5 6
_____	[ ] D017 2,4,5-TP (Silvex)	[ ] WW [ ] Non-WW	2 3 4 5 6
_____	[ ] D018 Benzene	[ ] WW [ ] Non-WW	1 2 3 4 6
_____	[ ] D019 Carbon tetrachloride	[ ] WW [ ] Non-WW	1 2 3 4 6
_____	[ ] D020 Chlordane	[ ] WW [ ] Non-WW	1 2 3 4 6
_____	[ ] D021 Chlorobenzene	[ ] WW [ ] Non-WW	1 2 3 4 6
_____	[ ] D022 Chloroform	[ ] WW [ ] Non-WW	1 2 3 4 6
_____	[ ] D023 o-Cresol	[ ] WW [ ] Non-WW	1 2 3 4 6
_____	[ ] D024 m-Cresol	[ ] WW [ ] Non-WW	1 2 3 4 6
_____	[ ] D025 p-Cresol	[ ] WW [ ] Non-WW	1 2 3 4 6
_____	[ ] D026 Cresol	[ ] WW [ ] Non-WW	1 2 3 4 6
_____	[ ] D027 1,4-Dichlorobenzene	[ ] WW [ ] Non-WW	1 2 3 4 6
_____	[ ] D028 1,2-Dichloroethane	[ ] WW [ ] Non-WW	1 2 3 4 6
_____	[ ] D029 1,1-Dichloroethylene	[ ] WW [ ] Non-WW	1 2 3 4 6
_____	[ ] D030 2,4-Dinitrotoluene	[ ] WW [ ] Non-WW	1 2 3 4 6
_____	[ ] D031 Heptachlor (and its epoxide)	[ ] WW [ ] Non-WW	1 2 3 4 6
_____	[ ] D032 Hexachlorobenzene	[ ] WW [ ] Non-WW	1 2 3 4 6
_____	[ ] D033 Hexachlorobutadiene	[ ] WW [ ] Non-WW	1 2 3 4 6
_____	[ ] D034 Hexachloroethane	[ ] WW [ ] Non-WW	1 2 3 4 6
_____	[ ] D035 Methyl ethyl ketone	[ ] WW [ ] Non-WW	1 2 3 4 6
_____	[ ] D036 Nitrobenzene	[ ] WW [ ] Non-WW	1 2 3 4 6
_____	[ ] D037 Pentachlorophenol	[ ] WW [ ] Non-WW	1 2 3 4 6
_____	[ ] D038 Pyridine	[ ] WW [ ] Non-WW	1 2 3 4 6
_____	[ ] D039 Tetrachloroethylene	[ ] WW [ ] Non-WW	1 2 3 4 6
_____	[ ] D040 Trichloroethylene	[ ] WW [ ] Non-WW	1 2 3 4 6
_____	[ ] D041 2,4,5-Trichlorophenol	[ ] WW [ ] Non-WW	1 2 3 4 6
_____	[ ] D042 2,4,6-Trichlorophenol	[ ] WW [ ] Non-WW	1 2 3 4 6
_____	[ ] D043 Vinyl Chloride	[ ] WW [ ] Non-WW	1 2 3 4 6

SECTION II. SPENT SOLVENT WASTES F001 THROUGH F005

COLUMN 1: LINE ITEM SEE MANIFEST	COLUMN 2: WASTE CODE / CONSTITUENTS	COLUMN 3: WASTEWATER/ NON-WASTEWATER	COLUMN 4: HANDLING CODE
1	[ ] F001 [X] F002 [ ] F003 [ ] F004 [ ] F005	[ ] WW [X] Non-WW	3 4 5 6
_____	[ ] 1. ALL F001-F005		
_____	[ ] 2. Acetone		
_____	[ ] 3. Benzene		
_____	[ ] 4. n-Butyl alcohol		
_____	[ ] 5. Carbon disulfide		
_____	[ ] 6. Carbon tetrachloride		
_____	[ ] 7. Chlorobenzene		
_____	[ ] 8. o-Cresol		
_____	[ ] 9. m-Cresol (difficult to distinguish from p-cresol)		
_____	[ ] 10. p-Cresol (difficult to distinguish from m-cresol)		
_____	[ ] 11. Cresol - mixed isomers (sum of o-, m- and p-cresol)		
	[ ] 12. Cyclohexanone		
	[ ] 13. o-Dichlorobenzene		
	[ ] 14. 2-Ethoxyethanol (F005 only)		
	[ ] 15. Ethyl acetate		
	[ ] 16. Ethyl benzene		
	[ ] 17. Ethyl ether		
	[ ] 18. Isobutyl alcohol		
	[ ] 19. Methanol		
	[ ] 20. Methylene chloride		
	[ ] 21. Methyl ethyl ketone		
	[ ] 22. Methyl isobutyl ketone		
	[ ] 23. Nitrobenzene		
	[ ] 24. 2-Nitropropane (F005 only)		
	[ ] 25. Pyridine		
	[ ] 26. Tetrachloroethylene		
	[ ] 27. Toluene		
	[ ] 28. 1,1,1-Trichloroethane		
	[ ] 29. 1,1,2-Trichloroethane		
	[ ] 30. Trichloroethylene		
	[ ] 31. 1,1,2-Trichloro-1,2,2-trifluoroethane		
	[ ] 32. Trichlorofluoromethane		
	[ ] 33. Xylene - mixed isomers (sum of o-, m-, and p-xylene)		

CLEAN HARBORS ENVIRONMENTAL SERVICES, INC.
LAND DISPOSAL RESTRICTYION NOTIFICATION FORM LDR-1

MANIFEST NO.: 005624743 FLE

SECTION III. CALIFORNIA LIST WASTES

COLUMN 1: LINE ITEM CODE SEE MANIFEST	COLUMN 2: WASTE CODE / CONSTIUENTS	COLUMN 3: WASTEWATER/ NON-WASTEWATER	COLUMN 4: HANDLING
_____	Hazardous waste containing one or more of the following California List constituents:	[ ] WW [ ] Non-WW	1 2 3 4 5 6

[ ] ALL CALIFORNIA LIST CONSTITUENTS
[ ] Liquids with nickel greater than or equal to 134 mg/l
[ ] Liquids with thallium greater than or equal to 130 mg/l
[ ] Liquids with PCB's > or = 50 ppm
[ ] Waste containing HOC's > or = 1,000 mg/kg /

SECTION IV. OTHER LISTED WASTES (F006-12, F019-F028, F037-38, F039, K-, U-, AND P-CODES)

COLUMN 1: LINE ITEM CODE SEE MANIFEST	COLUMN 2: WASTE CODE / CONSTIUENTS	COLUMN 3: WASTEWATER/ NON-WASTEWATER	COLUMN 4: HANDLING
_____	_____	[ ] WW [ ] Non-WW	3 4 5 6
_____	_____	[ ] WW [ ] Non-WW	3 4 5 6
_____	_____	[ ] WW [ ] Non-WW	3 4 5 6
_____	_____	[ ] WW [ ] Non-WW	3 4 5 6
_____	_____	[ ] WW [ ] Non-WW	3 4 5 6

[ ] CHECK HERE IF ADDITIONAL LISTED WASTE CODES ARE PRESENT. COMPLETE AND ATTACH LDR-1 CONTINUATION SHEET.
[ ] CHECK HERE IF WASTE CODE F039 (MULTISOURCE LEACHATE) IS PRESENT. IDENTIFY F039 CONSTITUENTS BY COMPLETING SECTIONS II AND IV OF CHI FORM LDR-1 ADDENDUM AND ATTACH COMPLETED ADDENDUM TO THIS FORM.

SECTION V. CONTACT NAME AND DATE

X Print Name: STEFAN BAGNATO ON BEHALF OF NYSDEC X Date: 5/4/2

KEY TERMS/DEFINITIONS

CLASS I SDWA SYSTEM means a Class I deep well facility regulated under the Safe Drinking Water Act (SDWA).

CWA SYSTEM means a centralized wastewater treatment facility discharging under a Clean Water Act (CWA) permit. For example, a CWA facility would treat organic or inorganic aqueous wastes and discharge the treated effluent to the local sewer system. Examples of CWA treatment systems owned and operated by Clean Harbors include the wastewater treatment operations at Baltimore (including the CES system), Bristol, Chicago, Cincinnati and Cleveland.

CWA-EQUIVALENT SYSTEM means a "zero discharge system" that engages in "CWA-equivalent" treatment before land disposal. Zero-discharge facilities treat hazardous wastes using "CWA-equivalent" treatment methods, but do not discharge the treatment effluent to a sewer or water body (e.g., spray irrigation land farm). "CWA-equivalent" treatment methods means biological treatment for organics, alkaline chlorination, or ferrous sulfate precipitation for cyanide, precipitation/ sedimentation for metals, reduction of hexavalent chromium, or other treatment technology that can be demonstrated to perform equally or greater than these technologies.

HIGH TOC IGNITABLE LIQUIDS SUBCATEGORY means an ignitable liquid hazardous waste (waste code D001) which contains greater than or equal to 10% total organic carbon (TOC). Pursuant to 40 CFR 268.40, such wastes must be treated using organic recovery (RORGS) or combustion (CMBST) technology. Examples of RORGS technologies include the CES unit at Clean Harbors of Baltimore. Examples of CMBST technologies include hazardous waste fuel blending and subsequent reuse at a cement kiln, or destruction at a RCRA incinerator.
WASTEWATERS are wastes that contain less than 1% by weight total organic carbon (TOC) and less than 1% by weight total suspended solids (TSS). [See 40 CFR 268.2(f)]

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) NY5223565-002 SC PPW 3/3/2011 Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	NYP000969444	1	(800)483-3718	005624744 FLE

5. Generator's Name and Mailing Address
NYSDEC
625 Broadway
Albany, NY 12233
Generator's Phone:

Generator's Site Address (if different than mailing address)
13 Willow Street
Cohoes, NY 12407

6. Transporter 1 Company Name: US BULK TRANSPORT, INC — U.S. EPA ID Number: PAD987347515
~~Clean Harbors Environmental Services Inc~~ — ~~MAD039322250~~

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address
Clean Harbors Canada Inc
4090 Telfer Road RR#1
Corunna, ON N0N 1G0
Facility's Phone: (519)864-1021
U.S. EPA ID Number: MIR000035204

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. UN2811, WASTE TOXIC SOLIDS, ORGANIC, N.O.S., (TETRACHLOROETHENE), 6.1, PG III	001	DT	BST. 27	T	F002		
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
1. CR626320B ERG#154

CHES of Glenmont EPA ID# NYD986871622 is acting as Primary exporter on behalf of generator

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: STEFAN BAGNAD ON BEHALF OF NYSDEC — Signature — Month 05 Day 16 Year 13

INT'L
16. International Shipments ☐ Import to U.S. ☒ Export from U.S. Port of ~~entry~~/exit: BUFFALO NY
Transporter signature (for exports only): Date leaving U.S.: 5/16/13

TRANSPORTER
17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: KEVIN M. HENRY — Signature — Month 05 Day 16 Year 13
Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY
18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H141			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Ronda Hayward — Signature — Month 05 Day 17 Year 13

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

MOVEMENT DOCUMENT / MANIFEST
DOCUMENT DE MOUVEMENT / MANIFESTE

This Movement document/manifest conforms to all federal and provincial transport and environmental legislation.
Ce document de mouvement/manifeste est conforme aux législations fédérale et provinciale sur l'environnement et le transport.

WS25340-1

Movement Document / Manifest Reference No.
N° de référence du document de mouvement/manifeste

A Generator / consignor / Producteur / expéditeur — Registration No. / Provincial ID No. / N° d'immatriculation - d'id. provincial 1
NYD 986 871 622

Company name / Nom de l'entreprise: Clean Harbors Environmental Service

Mailing address / Adresse postale — City / Ville — Province — Postal code / Code postal: Same As Below

E-mail / Courrier électronique: N/A — Tel. No. / N° de tél.: 518 434-0149

Shipping site address / Adresse du lieu de l'expédition: 32 Bask Rd

City / Ville: Glenmont — Province: NY — Postal code / Code postal: 12077

Intended Receiver / consignee / Réceptionnaire / destinataire prévu 2 — Registration No. / Provincial ID No. / N° d'immatriculation - d'id. provincial: Clean Harbors Canada Inc — A-031806

Mailing address / Adresse postale — City / Ville — Province — Postal code / Code postal: Same As Below

E-mail / Courrier électronique: N/A — Tel. No. / N° de tél.: 519 864-3892

Receiving site address / Adresse du lieu de l'expédition: 34090 Teller Road RR# 1

City / Ville: Corunna — Province: ON — Postal code / Code postal: N0N 1G0

B Carrier / Transporteur — Registration No. / Provincial ID No. / N° d'immatriculation - d'id. provincial 23: A 821221

Company name / Nom de l'entreprise: US Bulk Transport, Inc.

Mailing address / Adresse postale — City / Ville — Province — Postal code / Code postal: 205 Pennbriar Drive — Erie, PA. 16509

E-mail / Courrier électronique — Tel. No. / N° de tél.: 814 824 9109

Vehicle / Véhicule	Registration No. / N° d'immatriculation	Prov. 24
Trailer - Rail car No. 1 / 1re remorque - wagon	AD65298	NY
Trailer - Rail car No. 2 / 2e remorque - wagon		

Port of entry / Point d'entrée — International use only — Port of exit / Point de sortie — International use only 25: Fort Erie ON

Carrier Certification : I certify that I have received waste or recyclable material from the generator / consignor for delivery to the receiver / consignee as set out in Part A and that the information contained in Part B is complete and correct. / Attestation du transporteur : J'atteste avoir reçu les déchets ou matières recyclables du producteur / expéditeur en vue de leur livraison au réceptionnaire / destinataire, tels qu'ils figurent à la partie A et que les renseignements inscrits à la partie B sont exacts et complets.

Name of authorized person (print) / Nom de l'agent autorisé (caractère d'imprimerie): Kevin M. Henry — Tel. No. / N° de tél.: 888 651-8182

Year / Année: 13 — Month / Mois: 05 — Day / Jour: 16 — Signature: Kevin Henry

C Receiver / consignee / Réceptionnaire / destinataire — Registration No. / Provincial ID No. / N° d'immatriculation - d'id. provincial: A031806

Receiver / consignee information same as in Part A / Les renseignements du réceptionnaire / destinataire est la même qu'à la Partie A
☑ Yes / Oui ☐ No, complete the box below / Non, remplir la case ci-dessous

Company name / Nom de l'entreprise

Mailing address / Adresse postale

City / Ville — Province — Postal code / Code postal

E-mail / Courrier électronique — Tel. No. / N° de tél.

Receiving site address / Adresse du lieu de destination: Same

Reference Nos. of other movement document(s)/manifest(s) used / N° de référence des autres documents de mouvement/manifestes utilisés: 005624744FLI

Date received / Date de réception — Year / Année: 13 — Month / Mois: 05 — Day / Jour: 17 — Time / Heure: 9:17 ☑ A.M. ☐ P.M.

If waste or recyclable material to be transferred, specify intended company name / Si les déchets ou matières recyclables doivent être transférés, préciser le nom du destinataire 30 — Registration No. / Provincial ID No. / N° d'immatriculation/d'id provincial

	Prov. code 3	Shipping name / Appellation réglementaire 4	Class / Classe 5	UN No. / N° ONU 6	Packing / Risk gr. / Cl. d'emballage / de risque 7	Quantity shipped / Quantité expédiée 8	Units / L or / ou Kg	Packaging / Contenant 9 No. / N°	Packaging / Contenant 9 Codes	Phys. State / Etat phys. 10	Quantity received / Quantité reçue	Units 31 / L or / ou kg	Comments / Commentaires 32	Handling Code* / Code de manutention 33	Shipment / Envoi 34 Accepted / Acceptée	Shipment / Envoi 34 Refused / Refusée	Decont Pack. / V
(i)	241 H	WASTE Toxic Solid Organic N.O.S. (tetrachloroethene)	6.1	UN 2811	III	EST 24494	KG	1	6	SOL		KG		03			
(ii)																	
(iii)																	
(iv)																	

	Notice No. / N° de notification 11	Notice Line No. / N° de ligne de la notification	Shipment Envoi	Of / De	Ship Mode Code E ou R 13	C code Code C 14	Basel Annex VIII or OECD Code Annexe VIII de Bâle ou Code OCDE 15	H code Code H 16	Y code Code Y 17	National code in country of / Code du pays 18 Export / Exportation	Import / Importation	Customs code(s) / Code(s) de douanes 19
(i)	524970	2	4	4	DDS	C42	A4030	H6.1	Y42	NA	NA	3825.61.00.00
(ii)												
(iii)												
(iv)												

International use only

If handling code "Other" (specify) / Si code de manutention « autre » (spécifier)

Receiver / consignee certification : I certify that the information contained in Part C is correct and complete. / Attestation du réceptionnaire / destinataire : J'atteste que tous les renseignements à la partie C sont exacts et complets.

Name of authorized person (print) / Nom de l'agent autorisé (caractère d'imprimerie): Ronda Hayward

Signature: Ronda Hayward — Tel. No. / N° de tél.: 519 864-1021

Special handling / Manutention spéciale: ☐ Attached / Ci-joint ☐ As follows / Ci-contre: 1-800-443-3718

Generator / consignor certification : I certify that the information contained in Part A is correct and complete. / Attestation du producteur / expéditeur : J'atteste que tous les renseignements à la partie A sont exacts et complets.

Name of authorized person (print) / Nom de l'agent autorisé (caractère d'imprimerie): Arthur Bellow — Signature: Arthur Bellow — Tel. No. / N° de tél. 20: 518 434-0149

21 Date shipped / Date d'expédition — Year / Année: 13 — Month / Mois: 05 — Day / Jour: 16 — Time / Heure: ☐ A.M. ☐ P.M. 11:00 — Scheduled arrival date / Date d'arrivée prévu — Year / Année: 13 — Month / Mois: 05 — Day / Jour: 16

MOE 04-1917 (07/07)

Instructions for completion and distribution on reverse / Instructions pour compléter et distribuer au verso

Copy / Copie 3 (yellow / jaune)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) NY5223565-002 SC PFW 3/3/2011 Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	NYP000969444	1	(800) 483-3718	005624747 FLE

GENERATOR

5. Generator's Name and Mailing Address
NYSDEC
625 Broadway
Albany, NY 12233
Generator's Phone:

Generator's Site Address (if different than mailing address)
13 Willow Street
Cohoes, NY 12407

6. Transporter 1 Company Name: ~~Clean Harbors Environmental Services Inc~~ US BULK TRANSPORT, INC. (KH)
U.S. EPA ID Number: PAD987347515 ~~MAD039322250~~

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
Clean Harbors Canada Inc
4090 Telfer Road RR#1
Corunna, ON N0N 1G0
Facility's Phone: (519) 864-1021
U.S. EPA ID Number: MIR000035204

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. UN2811, WASTE TOXIC SOLIDS, ORGANIC, N.O.S., (TETRACHLOROETHENE), 6.1, PG III	001	DT	GST 27	T	F002		
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
1.CH626320B ERG#154

CHESeE Glenmont EPA ID# NYD986871622 is acting as primary exporter on behalf of generator

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: STEFAN BAGNATO ON BEHALF OF NYSDEC
Signature
Month 05 Day 20 Year 13

INT'L

16. International Shipments ☐ Import to U.S. ☒ Export from U.S. Port of entry/exit: BUFFALO NY
Transporter signature (for exports only): Kevin M. Henry Date leaving U.S.: 5/20/13

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: KEVIN M. HENRY
Signature: Kevin M. Henry
Month 05 Day 20 Year 13
Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H141			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name
Signature
Month Day Year

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Clean Harbors has the appropriate permits for and will accept the waste the generator is shipping.

MOVEMENT DOCUMENT / MANIFEST
DOCUMENT DE MOUVEMENT / MANIFESTE

This Movement document/manifest conforms to all federal and provincial transport and environmental legislation.
Ce document de mouvement/manifeste est conforme aux législations fédérale et provinciale sur l'environnement et le transport.

WS25342-7

Movement Document / Manifest Reference No.
N° de référence du document de mouvement/manifeste

A Generator / consignor / Producteur / expéditeur — Registration No. / Provincial ID No. / N° d'immatriculation - d'id. provincial 1

NYD 986 871 622

Company name / Nom de l'entreprise: Clean Harbors Environmental Services

Mailing address / Adresse postale: Same As Below — City / Ville — Province — Postal code / Code postal

E-mail / Courrier électronique: N/A — Tel. No. / N° de tél.: 518 434-0149

Shipping site address / Adresse du lieu de l'expédition: 32 Bask Rd

City / Ville: Glenmont — Province: NY — Postal code / Code postal: 12077

Intended Receiver / consignee / Réceptionnaire / destinataire prévu 2 — Registration No. / Provincial ID No. / N° d'immatriculation - d'id. provincial: A-031806

Clean Harbors Canada Inc

Mailing address / Adresse postale: Same As Below — City / Ville — Province — Postal code / Code postal

E-mail / Courrier électronique: N/A — Tel. No. / N° de tél.: 519 864-3892

Receiving site address / Adresse du lieu de l'expédition: 4090 Telfer Road RR #1

City / Ville: Corunna — Province: ON — Postal code / Code postal: NON 1GO

B Carrier / Transporteur — Registration No. / Provincial ID No. / N° d'immatriculation - d'id. provincial 23

A821221

Company name / Nom de l'entreprise: US Bulk Transport, Inc.

Mailing address / Adresse postale: 205 Pennbrier Drive — City / Ville: Erie — Province: PA — Postal code / Code postal: 16509

E-mail / Courrier électronique — Tel. No. / N° de tél.: 800 642 8910

Vehicle / Véhicule	Registration No. / N° d'immatriculation	Prov. 24
Trailer - Rail car No. 1 / 1re remorque - wagon	AD65298	NY
Trailer - Rail car No. 2 / 2e remorque - wagon		

Port of entry / Point d'entrée: Fort Erie ONT — International use only

Port of exit / Point de sortie — International use only — 25

Carrier Certification : *I certify that I have received waste or recyclable material from the generator / consignor for delivery to the receiver / consignee as set out in Part A and that the information contained in Part B is complete and correct.*
Attestation du transporteur : *J'atteste avoir reçu les déchets ou matières recyclables du producteur / expéditeur en vue de leur livraison au réceptionnaire / destinataire, tels qu'ils figurent à la partie A et que les renseignements inscrits à la partie B sont exacts et complets.* 26

Name of authorized person (print) / Nom de l'agent autorisé (caractères d'imprimerie): Kevin M. Henry — Tel. No. / N° de tél.: 800 642 8910

Year / Année: 13 — Month / Mois: 05 — Day / Jour: 20 — Signature:

Reference Nos. of other movement document(s)/manifest(s) used / N° de référence des autres documents de mouvement/manifestes utilisés: 005624747FLE 27

C Receiver / consignee / Réceptionnaire / destinataire — Registration No. / Provincial ID No. / N° d'immatriculation - d'id. provincial 28

Receiver / consignee information same as in Part A
Les renseignements du réceptionnaire / destinataire est la même qu'à la Partie A
☐ Yes / Oui ☐ No, complete the box below / Non, remplir la case ci-dessous

Company name / Nom de l'entreprise

Mailing address / Adresse postale

City / Ville — Province — Postal code / Code postal

E-mail / Courrier électronique — Tel. No. / N° de tél. ( )

Receiving site address / Adresse du lieu de destination

Date received / Date de réception — Year / Année — Month / Mois — Day / Jour — Time / Heure 29 — ☐ A.M. ☐ P.M.

If waste or recyclable material to be transferred, specify intended company name/ Si les déchets ou matières recyclables doivent être transférés, préciser le nom du destinataire 30 — Registration No./Provincial ID No. / N° d'immatriculation/d'id provincial

	Prov. code / Code prov. 3	Shipping name / Appellation réglementaire 4	Class / Classe 5 Sub. class(es) / Classe(s) sub.	UN No. / N°NU 6	Packing / risk gr. 7 / Gr. d'emballage / de risque	Quantity shipped / Quantité expédiée	Units 8 / L or / ou Kg / Unités	Packaging / Contenant 9 No. / N°	Codes	Int. – ext.	Phys. state / État phys. 10
(i)	ONT 271 H	Waste Toxic Solid Organic N.O.S (tetrachloroethene)	6.1	UN 2811	III	EST 24494	KG	1	6		504
(ii)	2414										
(iii)											
(iv)											

	Notice No. / N° de notification 11	Notice Line No. / N° de ligne de la notification	Shipment / Envoi 12	Of / De	D or R code / Code D ou R 13	C code / Code C 14	Basel Annex VIII or OECD Code / Annexe VIII de Bâle ou Code OCDE 15	H code / Code H 16	Y code / Code Y 17	National code in country of / Code du pays 18 Export / Exportation	Import / Importation	Customs code(s) / Code(s) de douanes 19
(i)	524970	2	6	250	D05	C42	A4030	H6.1	Y42	NA	NA	3825.61.00.00
(ii)	International use only											
(iii)												
(iv)												

If handling code "Other" (specify) / Si code de manutention « autre » (spécifier) 36

Receiver / consignee certification : *I certify that the information contained in Part C is correct and complete.* / **Attestation du réceptionnaire / destinataire :** *J'atteste que tous les renseignements à la partie C sont exacts et complets.*

Name of authorized person (print) / Nom de l'agent autorisé (caractère d'imprimerie) 37

Signature — Tel. No. / N° de tél. ( )

Special handling / Manutention spéciale 22 — ☐ Attached / Ci-joint: ☑ As follows / Ci-contre: 24 Hour # 1-800-483-3718

Generator / consignor certification: *I certify that the information contained in Part A is correct and complete.*
Attestation du producteur / expéditeur: *J'atteste que tous les renseignements à la partie A sont exacts et complets.*

Name of authorized person (print) / Nom de l'agent autorisé (caractère d'imprimerie): Arthur Bellin — Signature — Tel. No. / N° de tél. 20: 518 434-0149

21 Date shipped / Date d'expédition — Year / Année: 13 — Month / Mois: 05 — Day / Jour: 20 — Time / Heure: ☑ A.M. ☐ P.M. 11 05 — Scheduled arrival date / Date d'arrivée prévue — Year / Année — Month / Mois — Day / Jour

MOE 04-1917 (07/07)

Instructions for completion and distribution on reverse / Instructions pour compléter et distribuer au verso

Copy / Copie 1 (white / blanche

CleanHarbors
ENVIRONMENTAL SERVICES®

Land Disposal Restriction Notification Form

Printed Date :May 16, 2013

MANIFEST INFORMATION

Generator : NYSDEC

Address: 13 Willow Street
Cohoes,NY 12407

EPA ID #: N Y P 0 0 0 9 6 9 4 4 4

Manifest Tracking Info.

005624747

Sales Order No: NY5223565-002

LINE ITEM INFORMATION

Line Item:	Page No:	Profile No:	Treatability Group:	LDR Disposal Category
1.	1	CH626320B	NON-WASTEWATER	2 (This is subject to LDR.)

EPA Waste Code	EPA Waste SubCategory
F002	NONE

LDR Chemical Data

Chemical	Underlying Hazardous Constituents	Constituents of Concern	Contaminants Subject to Treatment
TETRACHLOROETHYLENE	N	Y	N

Certification	Applies to Manifest Line Items
Pursuant to 40 CFR 268.7(a), I hereby notify that this shipment contains waste restricted under 40 CFR Part 268.	1.

Waste analysis data, where available, is attached.

Signature : [signature] ON BEHALF OF NYSDEC Print Name STEFAN BAGNATO

Title : PROJECT GEOLOGIST Date : 5/20/13

NY5223565-002 SC PPW 3/3/2011

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number NYP000969444	2. Page 1 of 1	3. Emergency Response Phone (800)483-3718	4. Manifest Tracking Number 005624751 FLE

GENERATOR

5. Generator's Name and Mailing Address
NYSDEC
625 Broadway
Albany, NY 12233

Generator's Site Address (if different than mailing address)
13 Willow Street
Cohoes, NY 12407

Generator's Phone:

6. Transporter 1 Company Name: US Bulk Transport Inc — U.S. EPA ID Number: PAD987347515

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
Clean Harbors Canada Inc
4090 Telfer Road RR#1
Corunna, ON N0N 1G0
Facility's Phone: (519)864-1021

U.S. EPA ID Number: MIR000035204

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. UN2811, WASTE TOXIC SOLIDS, ORGANIC, N.O.S., (TETRACHLOROETHENE), 6.1, PG III	1	DT	~~EST 22 Ton~~ 22 Tons	~~22 Ton~~ T	F002		
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
1.CH626320B ERG#154

CHES of Glenmont EPA ID # NYD 986871622 is acting as primary exporter on behalf of generator

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: STEFAN BAGNATO ON BEHALF OF NYSDEC — Signature: S Bagnato — Month: 05 Day: 23 Year: 13

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Matthew R Snope — Signature: Matthew R Snope — Month: 05 Day: 23 Year: 13

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1. H141	2.	3.	4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Nicole Brain — Signature: Nicole Brain — Month: 05 Day: 24 Year: 13

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Clean Harbors has the appropriate permits for and will accept the waste the generator is shipping.

MOVEMENT DOCUMENT / MANIFEST
DOCUMENT DE MOUVEMENT / MANIFESTE

This Movement document/manifest conforms to all federal and provincial transport and environmental legislation.
Ce document de mouvement/manifeste est conforme aux législations fédérale et provinciale sur l'environnement et le transport.

WS25343-5

Movement Document / Manifest Reference No.
N° de référence du document de mouvement/manifeste

A Generator / consignor / Producteur / expéditeur — Registration No. / Provincial ID No. / N° d'immatriculation - d'id. provincial: NYD 986 871 622

Company name / Nom de l'entreprise: Clean Harbors Environmental Services

Mailing address / Adresse postale: Same As Below — City / Ville — Province — Postal code / Code postal

E-mail / Courrier électronique: N/A — Tel. No. / N° de tél.: 518 434-0149

Shipping site address / Adresse du lieu de l'expédition: 32 Basil Rd

City / Ville: Glenmont — Province: NY — Postal code / Code postal: 12077

Intended Receiver / consignee / Réceptionnaire / destinataire prévu: Clean Harbors Canada Inc — Registration No. / Provincial ID No. / N° d'immatriculation - d'id. provincial: A-031806

Mailing address / Adresse postale: Same As Below — City / Ville — Province — Postal code / Code postal

E-mail / Courrier électronique: N/A — Tel. No. / N° de tél.: 519 864-3892

Receiving site address / Adresse du lieu de l'expédition: 4090 Telfer Road RR #1

City / Ville: Corunna — Province: ON — Postal code / Code postal: N0N 1G0

B Carrier / Transporteur — Registration No. / Provincial ID No. / N° d'immatriculation - d'id. provincial: A821221

Company name / Nom de l'entreprise: US Bulk Transport Inc

Mailing address / Adresse postale: 205 Pennsylvania Drive — City / Ville: Erie, PA — Postal code / Code postal: 16509

E-mail / Courrier électronique — Tel. No. / N° de tél.: 800 642-8910

Vehicle / Véhicule — Registration No. / N° d'immatriculation — Prov.

Trailer - Rail car No. 1 / 1re remorque - wagon: ~~AC 57312~~ XHG 7545 — PA

Trailer - Rail car No. 2 / 2e remorque - wagon:

Port of entry / Point d'entrée: Port Erie ont — International use only

Port of exit / Point de sortie: International use only

Carrier Certification : I certify that I have received waste or recyclable material from the generator / consignor for delivery to the receiver / consignee as set out in Part A and that the information contained in Part B is complete and correct.
Attestation du transporteur : J'atteste avoir reçu les déchets ou matières recyclables du producteur / expéditeur en vue de leur livraison au réceptionnaire / destinataire, tels qu'ils figurent à la partie A et que les renseignements inscrits à la partie B sont exacts et complets.

Name of authorized person (print) / Nom de l'agent autorisé (caractères d'imprimerie): Matthew R Swope — Tel. No. / N° de tél.: 800 642 8910

Year / Année: 13 — Month / Mois: 05 — Day / Jour: 23 — Signature: Matthew R Swope

C Receiver / consignee / Réceptionnaire / destinataire — Registration No. / Provincial ID No. / N° d'immatriculation - d'id. provincial: ACB1806.

Reference Nos. of other movement document(s)/manifest(s) used / N° de référence des autres documents de mouvement/manifestes utilisés: 005624751 FLE

Receiver / consignee information same as in Part A / Les renseignements du réceptionnaire / destinataire est la même qu'à la Partie A: ☒ Yes / Oui ☐ No, complete the box below / Non, remplir la case ci-dessous

Company name / Nom de l'entreprise

Mailing address / Adresse postale

City / Ville — Province — Postal code / Code postal

E-mail / Courrier électronique — Tel. No. / N° de tél. ( )

Receiving site address / Adresse du lieu de destination: Same

Date received / Date de réception — Year / Année: 13 — Month / Mois: 05 — Day / Jour: 24 — Time / Heure: 7:40 ☐ P.M.

If waste or recyclable material to be transferred, specify intended company name/ Si les déchets ou matières recyclables doivent être transférés, préciser le nom du destinataire — Registration No./Provincial ID No. / N° d'immatriculation/d'id provincia

(3) Prov. code / Code prov.	(4) Shipping name / Appellation réglementaire	(5) Class / Classe Sub. class(es) / Classe(s) sub.	(6) UN No. / N° NU	(7) Packing / risk. gr. / Gr. d'emballage / de risque	Quantity shipped / Quantité expédiée	(8) Units / L or / ou Kg / Unités	(9) Packaging/Contenant No. / N°	Codes Int – ext.	(10) Phys. state / État phys.
(i) ~~ONTT~~	Waste Toxic Solid Organic N.O.S (tetrachloroethene)	6.1	UN 2811	III	19958	KG	1	6	SOL
(ii) ONTT									
(iii)									
(iv)									

Quantity received / Quantité reçue	Units / L or / ou kg / Unités	(31) Comments / Commentaires	(32) Handling Code / Code de manutention	(33) Shipment / Envoi Accepted / Accepté	Refused / Refusé	(34) Decor Pack. / Cont.
	KG		03			

(11) Notice No. / N° de notification	Notice Line No / N° de ligne de la notification	(12) Shipment / Envoi	Of / De	(13) D or R code / Code D ou R	(14) C code / Code C	(15) Basel Annex VIII or OECD Code Annexe VIII de Bâle ou Code OCDE	(16) H code / Code H	(17) Y code / Code Y	(18) National code in country of / Code du pays: Export / Exportation	Import / Importation	(19) Customs code(s) / Code(s) de douanes
(i) 524970	2	1	250	D05	C42	A4030	11b1	Y42	NA	NA	3825.61 00 00
(ii)											
(iii)	International use only										
(iv)											

If handling code "Other" (specify) / Si code de manutention « autre » (spécifier)

Receiver / consignee certification : *I certify that the information contained in Part C is correct and complete. /* ***Attestation du réceptionnaire / destinataire :*** *J'atteste que tous les renseignements à la partie C sont exacts et complets.*

Name of authorized person (print) / Nom de l'agent autorisé (caractère d'imprimerie): Nicole Brain

Signature: Nicole Brain — Tel. No. / N° de tél.: 519 864-4[illegible]

Special handling / Manutention spéciale: ☐ Attached / Ci-joint ☐ As follows / Ci-contre

24 hour # 1-800 483-3718

Generator / consignor certification: *I certify that the information contained in Part A is correct and complete.*
Attestation du producteur / expéditeur: *J'atteste que tous les renseignements à la partie A sont exacts et complets.*

Name of authorized person (print) / Nom de l'agent autorisé (caractère d'imprimerie): Arthur Bellini — Signature: Arthur Bellini — Tel. No. / N° de tél.: 518-434-0149

(21) Date shipped / Date d'expédition — Year / Année: 13 — Month / Mois: 05 — Day / Jour: 23 — Time / Heure: 11:00 ☐ A.M. ☐ P.M. — Scheduled arrival date / Date d'arrivée prév — Year / Année: 13 — Month / Mois: 05 — Day / Jo: 23

MOE 04-1917 (07/07)

Instructions for completion and distribution on reverse / Instructions pour compléter et distribuer au verso

Copy / Copie 3 (yellow / jaun

CleanHarbors
ENVIRONMENTAL SERVICES®

Land Disposal Restriction Notification Form

Printed Date :May 22, 2013

MANIFEST INFORMATION

Generator : NYSDEC

Address: 13 Willow Street
Cohoes,NY 12407

EPA ID #: N Y P 0 0 0 9 6 9 4 4 4

Manifest Tracking Info.

005624751

Sales Order No: NY5223565-002

LINE ITEM INFORMATION

Line Item:	Page No:	Profile No:	Treatability Group:	LDR Disposal Category
1.	1	CH626320B	NON-WASTEWATER	2 (This is subject to LDR.)

EPA Waste Code	EPA Waste SubCategory
F002	NONE

LDR Chemical Data

Chemical	Underlying Hazardous Constituents	Constituents of Concern	Contaminants Subject to Treatment
TETRACHLOROETHYLENE	N	Y	N

Certification	Applies to Manifest Line Items
Pursuant to 40 CFR 268.7(a), I hereby notify that this shipment contains waste restricted under 40 CFR Part 268.	1.

Waste analysis data, where available, is attached.

Signature : S/B ON BEHALF OF NYSDEC Print Name STEFAN BAGNATO

Title : PROJECT GEOLOGIST Date : 5/23/13

ARCADIS

Appendix G

Data Usability Summary Reports

Data Validation Services

120 Cobble Creek Road P.O. Box 208
North Creek, NY 12853

Phone 518-251-4429
Facsimile 518-251-4428

November 5, 2012

Stefan Bagnato
ARCADIS, Inc.
855 Rt 146 Suite 204
Clifton Park, NY 12065

RE: Validation of the NYSDEC S&S Cleaners Site Analytical Data Packages
Spectrum Analytical SDG No. L2071
con-test SDG No. 12J0233

Dear Mr. Bagnato:

Review has been completed for the data packages generated by Spectrum Analytical, Inc and con-test that pertain to samples collected between 10/01/12 and 10/04/12 at the S&S Cleaners site. Two aqueous samples and a field duplicate were analyzed for TCL volatiles, TCL semivolatiles, TCL pesticides, TCL PCBS, and TAL metals by USEPA SW846 methods 8260B, 8270C, 8081A, 8082, 6010B, and 7470. Six aqueous samples were analyzed for TCL volatiles by 8260B. Eight 6 L summa canisters and a field duplicate were analyzed for volatiles by USEPA method TO-15.

The data packages submitted by the laboratory contain full deliverables for validation, but this usability report is generated from review of the QC summary form information, with full review of sample raw data and limited review of associated QC raw data. Full validation has not been performed. However, the reported QC summary forms and sample raw data have been reviewed for application of validation qualifiers, with guidance from the USEPA national and regional validation documents, and in consideration for the specific requirements of the analytical methodology. The following items were reviewed:

The following items were reviewed:

* Data Completeness
* Case Narrative
* Custody Documentation
* Holding Times
* Surrogate and Internal Standard Recoveries
* Method and Trip Blanks
* Matrix Spikes/Matrix Spike Duplicates
* Blind Field Duplicate
* Laboratory Control Sample (LCS)
* Instrumental Tunes
* Calibration Standards

* Method Compliance
* Sample Result Verification

The data review includes evaluation of the specific items noted in The NYS DER-10 Appendix B section 2.0 (c).

The items listed above that show deficiencies are discussed within the text of this narrative. The laboratory QC forms illustrating the excursions can be found within the laboratory data package.

In summary, most results for target analytes are usable either as reported or with edit to non-detection. However, the results for one volatile target analyte are not usable due to very poor instrument performance.

Copies of the client sample identifications are attached to this text. Also attached are laboratory sample results forms, with recommended qualifiers applied in red ink.

Chain-of-Custody

MW-5 was on the initial custody, but was not collected and sent to the laboratory until the following day.

Blind Field Duplicates

The blind field duplicate evaluation for SV-7 shows outlying correlations for ethanol, acetone, cis-1,2-dichloroethene, trichloroethene (all >±CRDL), ethyl acetate (59%RPD), and tetrachloroethene (159%RPD). The results for those compounds in the parent sample and its duplicate have therefore been qualified as estimated.

The field duplicate correlations for MW-8 are acceptable for all parameters.

Volatile Analyses by EPA8260B

The results for 1,4-dioxane in the samples are not usable due to poor instrument performance that is inherent with the methodology.

The result for tetrachloroethene in MW-7 is derived from the dilution analysis of the sample, thus reflecting response within the established instrument calibration range.

The undiluted analysis of MW-7 exhibited an elevated recovery for one of the surrogate standards, and therefore results for all detected analytes except tetrachloroethene are qualified as estimated in value in that sample. The sample should have been reanalyzed. The laboratory statement that reanalysis was not required is inaccurate.

Holding time requirements were met, and instrument tunes meet fragmentation requirements. Internal standard recoveries are within laboratory acceptance ranges.

Due to contamination in the associated trip blank, detections of methylene chloride in the aqueous samples are considered external contamination, and edited to non-detection.

The matrix spikes of MW-8 show recoveries and correlations within laboratory acceptance ranges for all analytes, with the exception of the recoveries of methyl acetate (61% and 62%) (and those for 1,4-dioxane, results for which are already rejected). The result for methyl acetate in the parent sample has been qualified as estimated in value due to the low recoveries.

The blind field duplicate of SEC-GW-10 shows acceptable correlations to its parent sample.

The following results are qualified as estimated due to low responses in the associated calibration standards:

- acetone and 2-butanone (low RRFs) and bromoform (22%RSD and 27%RSD) in MW-7 and the trip blanks
- 1,2-dibromo-3-chloropropane (29%RSD) and dibromochloromethane (20%RSD) in MW-3, MW-6, MW-8, and DUP
- carbon disulfide, dichlorodifluoromethane, chloromethane and methylene chloride (23%D to 48%D) in MW-3, MW-6, MW-8, and DUP

Volatile Analyses by EPA TO-15

The following results are qualified as tentative in identification and estimated in value due to poor spectral quality:

- ethyl acetate in SV-7 and DUP
- chloromethane in SV-1 and DUP

The following results are edited to reflect non-detection due to very poor mass spectral quality:

- chloromethane in SV-10
- ethyl acetate in SV-2
- benzene in SV-1

Holding times and instrument tunes meet requirements. Internal standard recoveries are acceptable. Blanks show no contamination affecting sample results.

The laboratory duplicate evaluation of Ambient Air 2 shows acceptable correlations.

Initial and continuing calibration standard responses were acceptable, with all response factors (RRFs) above 0.05, linearity within the 30%RSD limit, and continuing responses not above 30%D.

The method blank summary forms should show the date of analysis.

TCL Semivolatiles by EPA 8270C

Matrix spikes of MW-8 show acceptable recoveries and duplicate correlations for all analytes. Acceptance ranges are overly generous for some analytes (i.e. phenol at 0% to 115%).

Surrogate recoveries and internal standard responses are within required limits. LCS recoveries meet validation guidelines.

Calibration standards showed acceptable responses, with the exceptions of those for pentachlorophenol (low RRF, 32%RSD, and 50%D), hexachlorocyclopentadiene (40%D and 35%RSD) in the

calibration standards associates with the samples.MW-7. The results for those compounds have therefore been qualified as estimated.

TCL Pesticides by 8081A and TCL PCBs by EPA 8082

Surrogate recoveries are acceptable. LCSs show recoveries and duplicate correlations for pesticides and Aroclors 1016 and 1260 that are within laboratory acceptance ranges. Blanks show no contamination.

Matrix spikes of Aroclors 1016 and 1260 show good accuracy and precision.

The pesticide matrix spikes of MW-8 show low recoveries for a-chlordane and g-chlordane (52% to 57%). Results for those two compounds in the parent sample are therefore qualified as estimated. Four additional compounds produced low recoveries in only one of the matrix spikes. The surrogate recoveries of the spikes show a similar variance, indicating an extract-specific issue. No additional qualification is indicated.

Instrument performance was compliant.

TAL Metals Analyses by EPA 6010B, 7470, and 7471

The matrix spikes (MS/MSD) for TAL metals on MW-8 show acceptable recoveries and duplicate correlations.

The ICP serial dilution evaluations for MW-7 and MW-8 show outlying correlations for potassium (28%D and 31%D). Detected results for those elements in the samples are therefore qualified as estimated in value.

No low level standards near the reporting limit were processed, although it is a requirement of the NYS DER-10. Therefore, accuracy at and near the reporting limit has not been ascertained.

Method blanks show no detections above the reporting limit.

Please do not hesitate to contact me if questions or comments arise during your review of this report.

Very truly yours,

Judy Harry

Judy Harry

VALIDATION DATA QUALIFIER DEFINITIONS

U	The analyte was analyzed for, but was not detected above the level of the associated reported quantitation limit.
J	The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.
UJ	The analyte was not detected. The associated reported quantitation limit is an estimate and may be inaccurate or imprecise.
NJ	The detection is tentative in identification and estimated in value. Although there is presumptive evidence of the analyte, the result should be used with caution as a potential false positive and/or elevated quantitative value.
R	The data are unusable. The analyte may or may not be present.
EMPC	The results do not meet all criteria for a confirmed identification. The quantitative value represents the Estimated Maximum Possible Concentration of the analyte in the sample.

CLIENT and LABORATORY SAMPLE IDs

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

New York State Department of Environmental Conservation
Sample Identification and Analytical Requirements Summary

Project Name : S&S Dry Cleaners & Dyers -- 0266396.0000 **SDG :** L2071

Customer Sample ID	Laboratory Sample ID	Analytical Requirements				
		MSVOA Method #	MSSEMI Method #	GC* Method #	ME	Other
MW-2	L2071-01	SW8260_W				
MW-1	L2071-02	SW8260_W				
MW-3	L2071-03	SW8260_W				
MW-6	L2071-04	SW8260_W				
MW-8	L2071-05	SW8260_W	SW8270_W	SW8081_W	SW6010_W	
MW-8	L2071-05			SW8082_W	SW7470	
DUP	L2071-06	SW8260_W	SW8270_W	SW8081_W	SW6010_W	
DUP	L2071-06			SW8082_W	SW7470	
TB100112	L2071-07	SW8260_W				
MW-5	L2071-08	SW8260_W				
TB100212	L2071-09	SW8260_W				
MW-7	L2071-10	SW8260_W	SW8270_W	SW8081_W	SW6010_W	
MW-7	L2071-10			SW8082_W	SW7470	
TB100412	L2071-11	SW8260_W				

Report Date:
23-Oct-12 22:56

☑ Final Report
☐ Re-Issued Report
☐ Revised Report

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

Laboratory Report

ARCADIS U.S., Inc.
855 Route 146, Suite 210
Clifton Park, NY 12065

Work Order: L2071
Project : S&S Dry Cleaners & Dyers
Project #: 0266396.0000

Attn: Andy Vitolins

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
L2071-01	MW-2	Aqueous	01-Oct-12 10:25	02-Oct-12 09:45
L2071-02	MW-1	Aqueous	01-Oct-12 11:35	02-Oct-12 09:45
L2071-03	MW-3	Aqueous	01-Oct-12 12:45	02-Oct-12 09:45
L2071-04	MW-6	Aqueous	01-Oct-12 14:45	02-Oct-12 09:45
L2071-05	MW-8	Aqueous	01-Oct-12 16:15	02-Oct-12 09:45
L2071-06	DUP	Aqueous	01-Oct-12 00:00	02-Oct-12 09:45
L2071-07	TB100112	Aqueous	01-Oct-12 00:00	02-Oct-12 09:45
L2071-08	MW-5	Aqueous	02-Oct-12 11:00	03-Oct-12 09:09
L2071-09	TB100212	Aqueous	02-Oct-12 00:00	03-Oct-12 09:09
L2071-10	MW-7	Aqueous	04-Oct-12 10:45	05-Oct-12 09:15
L2071-11	TB100412	Aqueous	04-Oct-12 00:00	05-Oct-12 09:15

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. The results relate only to the samples(s) as received. This report may not be reproduced, except in full, without written approval from Spectrum Analytical.

All applicable NELAC or USEPA CLP requirments have been meet.

Spectrum Analytical (Rhode Island) is accredited under the National Environmental Laboratory Approval Program (NELAP) and DoD Environmental Laboratory Accreditation Program (ELAP), holds Organic and Inorganic contracts under the USEPA CLP Program and is certified under several states. The current list of our laboratory approvals and certifications is available on the Certifications page on our web site at www.spectrum-analytical.com.

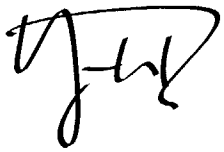
Please contact the Laboratory or Technical Director at 401-732-3400 with any questions regarding the data contained in the laboratory report.

Department of Defense	N/A
Connecticut	PH-0153
Delaware	N/A
Florida	E87664
Maine	2007037
Massachusetts	M-RI907
New Hampshire	2631
New Jersey	RI001
New York	11522
North Carolina	581
Rhode Island	LAI00301
USDA	P330-08-00023
USEPA - ISM	EP-W-09-039
USEPA - SOM	EP-W-11-033

NELAP ACCREDITED LABORATORY

LABORATORY ACCREDITATION BUREAU ACCREDITED
Certificate # L2247 Testing

Authorized by:



Yihai Ding
Laboratory Director

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

Arcadis US, Inc. - Clifton Park-NY
855 Route 146, Suite 210
Clifton Park, NY 12065
ATTN: Stefan Bagnato

REPORT DATE: 10/12/2012

PURCHASE ORDER NUMBER: 00266396

PROJECT NUMBER: 00266396

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 12J0233

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

PROJECT LOCATION: Cohoes, NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
SV-6	12J0233-01	Soil Gas		EPA TO-15	
SV-7	12J0233-02	Soil Gas		EPA TO-15	
Dup	12J0233-03	Soil Gas		EPA TO-15	
SV-2	12J0233-04	Soil Gas		EPA TO-15	
SV-1	12J0233-05	Soil Gas		EPA TO-15	
SV-8	12J0233-06	Soil Gas		EPA TO-15	
SV-10	12J0233-09	Soil Gas		EPA TO-15	
Ambient Air 2	12J0233-10	Ambient Air		EPA TO-15	
SV-9	12J0233-11	Soil Gas		EPA TO-15	

QUALIFIED SAMPLE RESULTS FORMS

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-2

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L2071-01A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I0443.D

Level: (TRACE/LOW/MED) LOW Date Received: 10/02/2012

% Moisture: not dec. Date Analyzed: 10/11/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	1.0	U
74-87-3	Chloromethane	1.0	U
75-01-4	Vinyl chloride	1.0	U
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	1.0	U
75-09-2	Methylene chloride	1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	U
1634-04-4	Methyl tert-butyl ether	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
74-97-5	Bromochloromethane	1.0	U
67-66-3	Chloroform	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
71-43-2	Benzene	1.0	U
79-01-6	Trichloroethene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
127-18-4	Tetrachloroethene	8.1	
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U
108-90-7	Chlorobenzene	1.0	U
100-41-4	Ethylbenzene	1.0	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-2

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L2071-01A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I0443.D

Level: (TRACE/LOW/MED) LOW Date Received: 10/02/2012

% Moisture: not dec. Date Analyzed: 10/11/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
179601-23-1	m,p-Xylene	1.0	U
95-47-6	o-Xylene	1.0	U
100-42-5	Styrene	1.0	U
75-25-2	Bromoform	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U
123-91-1	1,4-Dioxane	~~100~~	~~U~~ R
110-82-7	Cyclohexane	1.0	U
79-20-9	Methyl acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-1

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L2071-02A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I0444.D

Level: (TRACE/LOW/MED) LOW Date Received: 10/02/2012

% Moisture: not dec. Date Analyzed: 10/11/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	1.0	U
74-87-3	Chloromethane	1.0	U
75-01-4	Vinyl chloride	1.0	U
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	1.0	U
75-09-2	Methylene chloride	1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	U
1634-04-4	Methyl tert-butyl ether	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
74-97-5	Bromochloromethane	1.0	U
67-66-3	Chloroform	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
71-43-2	Benzene	1.0	U
79-01-6	Trichloroethene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
127-18-4	Tetrachloroethene	0.93	J
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U
108-90-7	Chlorobenzene	1.0	U
100-41-4	Ethylbenzene	1.0	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-1

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L2071-02A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I0444.D

Level: (TRACE/LOW/MED) LOW Date Received: 10/02/2012

% Moisture: not dec. Date Analyzed: 10/11/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
179601-23-1	m,p-Xylene	1.0	U
95-47-6	o-Xylene	1.0	U
100-42-5	Styrene	1.0	U
75-25-2	Bromoform	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U
123-91-1	1,4-Dioxane	~~100~~	~~U~~ R
110-82-7	Cyclohexane	1.0	U
79-20-9	Methyl acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-3

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L2071-03A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I0409.D

Level: (TRACE/LOW/MED) LOW Date Received: 10/02/2012

% Moisture: not dec. Date Analyzed: 10/10/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	1.0	U UJ
74-87-3	Chloromethane	1.0	U UJ
75-01-4	Vinyl chloride	1.0	U
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	1.0	U UJ
75-09-2	Methylene chloride	1.0	U UJ
156-60-5	trans-1,2-Dichloroethene	1.0	U
1634-04-4	Methyl tert-butyl ether	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
74-97-5	Bromochloromethane	1.0	U
67-66-3	Chloroform	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
71-43-2	Benzene	1.0	U
79-01-6	Trichloroethene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	1.0	U UJ
106-93-4	1,2-Dibromoethane	1.0	U
108-90-7	Chlorobenzene	1.0	U
100-41-4	Ethylbenzene	1.0	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-3

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L2071-03A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I0409.D

Level: (TRACE/LOW/MED) LOW Date Received: 10/02/2012

% Moisture: not dec. Date Analyzed: 10/10/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
179601-23-1	m,p-Xylene	1.0	U
95-47-6	o-Xylene	1.0	U
100-42-5	Styrene	1.0	U
75-25-2	Bromoform	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U US
120-82-1	1,2,4-Trichlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U
123-91-1	1,4-Dioxane	~~100~~	~~U~~ R
110-82-7	Cyclohexane	1.0	U
79-20-9	Methyl acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-6

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L2071-04A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I0410.D

Level: (TRACE/LOW/MED) LOW Date Received: 10/02/2012

% Moisture: not dec. Date Analyzed: 10/10/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	1.0	U UJ
74-87-3	Chloromethane	1.0	U UJ
75-01-4	Vinyl chloride	1.0	U
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	1.0	U UJ
75-09-2	Methylene chloride	1.0	U UJ
156-60-5	trans-1,2-Dichloroethene	1.0	U
1634-04-4	Methyl tert-butyl ether	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
74-97-5	Bromochloromethane	1.0	U
67-66-3	Chloroform	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
71-43-2	Benzene	1.0	U
79-01-6	Trichloroethene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
127-18-4	Tetrachloroethene	0.81	J
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	1.0	U UJ
106-93-4	1,2-Dibromoethane	1.0	U
108-90-7	Chlorobenzene	1.0	U
100-41-4	Ethylbenzene	1.0	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-6

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L2071-04A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I0410.D

Level: (TRACE/LOW/MED) LOW Date Received: 10/02/2012

% Moisture: not dec. Date Analyzed: 10/10/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
179601-23-1	m,p-Xylene	1.0	U
95-47-6	o-Xylene	1.0	U
100-42-5	Styrene	1.0	U
75-25-2	Bromoform	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U U3
120-82-1	1,2,4-Trichlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U
123-91-1	1,4-Dioxane	~~100~~	~~U~~ R
110-82-7	Cyclohexane	1.0	U
79-20-9	Methyl acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-8

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L2071-05A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I0411.D

Level: (TRACE/LOW/MED) LOW Date Received: 10/02/2012

% Moisture: not dec. Date Analyzed: 10/10/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	1.0	U UJ
74-87-3	Chloromethane	1.0	U UJ
75-01-4	Vinyl chloride	1.0	U
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	1.0	U UJ
75-09-2	Methylene chloride	1.0	U UJ
156-60-5	trans-1,2-Dichloroethene	1.0	U
1634-04-4	Methyl tert-butyl ether	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
74-97-5	Bromochloromethane	1.0	U
67-66-3	Chloroform	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
71-43-2	Benzene	1.0	U
79-01-6	Trichloroethene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	1.0	U UJ
106-93-4	1,2-Dibromoethane	1.0	U
108-90-7	Chlorobenzene	1.0	U
100-41-4	Ethylbenzene	1.0	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-8

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L2071-05A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I0411.D

Level: (TRACE/LOW/MED) LOW Date Received: 10/02/2012

% Moisture: not dec. Date Analyzed: 10/10/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
179601-23-1	m,p-Xylene	1.0	U
95-47-6	o-Xylene	1.0	U
100-42-5	Styrene	1.0	U
75-25-2	Bromoform	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U UJ
120-82-1	1,2,4-Trichlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U
123-91-1	1,4-Dioxane	~~100~~	~~U~~ R
110-82-7	Cyclohexane	1.0	U
79-20-9	Methyl acetate	1.0	U UJ
108-87-2	Methylcyclohexane	1.0	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DUP

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L2071-06A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I0412.D

Level: (TRACE/LOW/MED) LOW Date Received: 10/02/2012

% Moisture: not dec. Date Analyzed: 10/10/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	1.0	U UJ
74-87-3	Chloromethane	1.0	U UJ
75-01-4	Vinyl chloride	1.0	U
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	1.0	U UJ
75-09-2	Methylene chloride	1.0	U UJ
156-60-5	trans-1,2-Dichloroethene	1.0	U
1634-04-4	Methyl tert-butyl ether	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	0.51	J
74-97-5	Bromochloromethane	1.0	U
67-66-3	Chloroform	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
71-43-2	Benzene	1.0	U
79-01-6	Trichloroethene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	1.0	U UJ
106-93-4	1,2-Dibromoethane	1.0	U
108-90-7	Chlorobenzene	1.0	U
100-41-4	Ethylbenzene	1.0	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DUP

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L2071-06A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I0412.D

Level: (TRACE/LOW/MED) LOW Date Received: 10/02/2012

% Moisture: not dec. Date Analyzed: 10/10/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
179601-23-1	m,p-Xylene	1.0	U
95-47-6	o-Xylene	1.0	U
100-42-5	Styrene	1.0	U
75-25-2	Bromoform	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U UJ
120-82-1	1,2,4-Trichlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U
123-91-1	1,4-Dioxane	~~100~~	~~U~~ R
110-82-7	Cyclohexane	1.0	U
79-20-9	Methyl acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB100112

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L2071-07A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M8731.D

Level: (TRACE/LOW/MED) LOW Date Received: 10/02/2012

% Moisture: not dec. Date Analyzed: 10/12/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	1.0	U
74-87-3	Chloromethane	1.0	U
75-01-4	Vinyl chloride	1.0	U
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	1.0	U
75-09-2	Methylene chloride	2.1	
156-60-5	trans-1,2-Dichloroethene	1.0	U
1634-04-4	Methyl tert-butyl ether	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
74-97-5	Bromochloromethane	1.0	U
67-66-3	Chloroform	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
71-43-2	Benzene	1.0	U
79-01-6	Trichloroethene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U
108-90-7	Chlorobenzene	1.0	U
100-41-4	Ethylbenzene	1.0	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB100112

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L2071-07A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M8731.D

Level: (TRACE/LOW/MED) LOW Date Received: 10/02/2012

% Moisture: not dec. Date Analyzed: 10/12/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
179601-23-1	m,p-Xylene	1.0	U
95-47-6	o-Xylene	1.0	U
100-42-5	Styrene	1.0	U
75-25-2	Bromoform	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U
123-91-1	1,4-Dioxane	~~100~~	~~U~~ R
110-82-7	Cyclohexane	1.0	U
79-20-9	Methyl acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-5

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L2071-08A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I0445.D

Level: (TRACE/LOW/MED) LOW Date Received: 10/03/2012

% Moisture: not dec. Date Analyzed: 10/11/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	1.0	U
74-87-3	Chloromethane	1.0	U
75-01-4	Vinyl chloride	1.0	U
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	1.0	U
75-09-2	Methylene chloride	1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	U
1634-04-4	Methyl tert-butyl ether	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
74-97-5	Bromochloromethane	1.0	U
67-66-3	Chloroform	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
71-43-2	Benzene	1.0	U
79-01-6	Trichloroethene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U
108-90-7	Chlorobenzene	1.0	U
100-41-4	Ethylbenzene	1.0	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-5

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L2071-08A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I0445.D

Level: (TRACE/LOW/MED) LOW Date Received: 10/03/2012

% Moisture: not dec. Date Analyzed: 10/11/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
179601-23-1	m,p-Xylene	1.0	U
95-47-6	o-Xylene	1.0	U
100-42-5	Styrene	1.0	U
75-25-2	Bromoform	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U
123-91-1	1,4-Dioxane	~~100~~	~~U~~ B
110-82-7	Cyclohexane	1.0	U
79-20-9	Methyl acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB100212

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L2071-09A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M8732.D

Level: (TRACE/LOW/MED) LOW Date Received: 10/03/2012

% Moisture: not dec. Date Analyzed: 10/12/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	1.0	U
74-87-3	Chloromethane	1.0	U
75-01-4	Vinyl chloride	1.0	U
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
67-64-1	Acetone	5.0	U UJ
75-15-0	Carbon disulfide	1.0	U
75-09-2	Methylene chloride	0.69	J
156-60-5	trans-1,2-Dichloroethene	1.0	U
1634-04-4	Methyl tert-butyl ether	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
78-93-3	2-Butanone	5.0	U UJ
156-59-2	cis-1,2-Dichloroethene	1.0	U
74-97-5	Bromochloromethane	1.0	U
67-66-3	Chloroform	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
71-43-2	Benzene	1.0	U
79-01-6	Trichloroethene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U
108-90-7	Chlorobenzene	1.0	U
100-41-4	Ethylbenzene	1.0	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB100212

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L2071-09A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M8732.D

Level: (TRACE/LOW/MED) LOW Date Received: 10/03/2012

% Moisture: not dec. Date Analyzed: 10/12/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
179601-23-1	m,p-Xylene	1.0	U
95-47-6	o-Xylene	1.0	U
100-42-5	Styrene	1.0	U
75-25-2	Bromoform	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U
123-91-1	1,4-Dioxane	~~100~~	~~U~~ R
110-82-7	Cyclohexane	1.0	U
79-20-9	Methyl acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-7

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L2071-10A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M8734.D

Level: (TRACE/LOW/MED) LOW Date Received: 10/05/2012

% Moisture: not dec. Date Analyzed: 10/12/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	1.0	U
74-87-3	Chloromethane	1.0	U
75-01-4	Vinyl chloride	7.8	J
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U
75-35-4	1,1-Dichloroethene	4.6	J
67-64-1	Acetone	5.0	U UJ
75-15-0	Carbon disulfide	1.0	U
75-09-2	Methylene chloride	1.0 ~~0.87~~	JUJ
156-60-5	trans-1,2-Dichloroethene	1.1	J
1634-04-4	Methyl tert-butyl ether	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
78-93-3	2-Butanone	5.0	U UJ
156-59-2	cis-1,2-Dichloroethene	110	J
74-97-5	Bromochloromethane	1.0	U
67-66-3	Chloroform	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
71-43-2	Benzene	1.0	U
79-01-6	Trichloroethene	120	J
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	1.4	J
10061-02-6	trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
127-18-4	Tetrachloroethene	45,000 ~~9400~~	~~E~~
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U
108-90-7	Chlorobenzene	4.1	J
100-41-4	Ethylbenzene	1.0	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-7

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L2071-10A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M8734.D

Level: (TRACE/LOW/MED) LOW Date Received: 10/05/2012

% Moisture: not dec. Date Analyzed: 10/12/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
179601-23-1	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.57	J J
100-42-5	Styrene	1.0	U
75-25-2	Bromoform	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U
123-91-1	1,4-Dioxane	~~100~~	~~U~~
110-82-7	Cyclohexane	1.0	U
79-20-9	Methyl acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB100412

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L2071-11A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M8733.D

Level: (TRACE/LOW/MED) LOW Date Received: 10/05/2012

% Moisture: not dec. Date Analyzed: 10/12/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	1.0	U
74-87-3	Chloromethane	1.0	U
75-01-4	Vinyl chloride	1.0	U
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
67-64-1	Acetone	5.0	U UJ
75-15-0	Carbon disulfide	1.0	U
75-09-2	Methylene chloride	0.69	J
156-60-5	trans-1,2-Dichloroethene	1.0	U
1634-04-4	Methyl tert-butyl ether	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
78-93-3	2-Butanone	5.0	U UJ
156-59-2	cis-1,2-Dichloroethene	1.0	U
74-97-5	Bromochloromethane	1.0	U
67-66-3	Chloroform	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
71-43-2	Benzene	1.0	U
79-01-6	Trichloroethene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U
108-90-7	Chlorobenzene	1.0	U
100-41-4	Ethylbenzene	1.0	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB100412

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L2071-11A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M8733.D

Level: (TRACE/LOW/MED) LOW Date Received: 10/05/2012

% Moisture: not dec. Date Analyzed: 10/12/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
179601-23-1	m,p-Xylene	1.0	U
95-47-6	o-Xylene	1.0	U
100-42-5	Styrene	1.0	U
75-25-2	Bromoform	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U
123-91-1	1,4-Dioxane	~~100~~	~~U~~ R
110-82-7	Cyclohexane	1.0	U
79-20-9	Methyl acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-8

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L2071-05B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S6B0638.D

Level: (LOW/MED) LOW Extraction: (Type) SEPF

% Moisture: Decanted: (Y/N) Date Received: 10/02/2012

Concentrated Extract Volume: 1000 (uL) Date Extracted: 10/04/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 10/05/2012

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	Bis(2-chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2´-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
120-83-2	2,4-Dichlorophenol	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
111-91-1	Bis(2-chloroethoxy)methane	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U U3
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-8

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L2071-05B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S6B0638.D

Level: (LOW/MED) LOW Extraction: (Type) SEPF

% Moisture: Decanted: (Y/N) Date Received: 10/02/2012

Concentrated Extract Volume: 1000 (uL) Date Extracted: 10/04/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 10/05/2012

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	20	U UJ
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3´-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	Bis(2-ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U
92-52-4	1,1´-Biphenyl	10	U
95-94-3	1,2,4,5-Tetrachlorobenzene	10	U
58-90-2	2,3,4,6-Tetrachlorophenol	10	U
98-86-2	Acetophenone	25	U
1912-24-9	Atrazine	10	U
100-52-7	Benzaldehyde	10	U
105-60-2	Caprolactam	10	U

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DUP

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L2071-06B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S6B0641.D

Level: (LOW/MED) LOW Extraction: (Type) SEPF

% Moisture: Decanted: (Y/N) Date Received: 10/02/2012

Concentrated Extract Volume: 1000 (uL) Date Extracted: 10/04/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 10/05/2012

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	Bis(2-chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2´-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
120-83-2	2,4-Dichlorophenol	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
111-91-1	Bis(2-chloroethoxy)methane	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U UJ
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DUP

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L2071-06B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S6B0641.D

Level: (LOW/MED) LOW Extraction: (Type) SEPF

% Moisture: Decanted: (Y/N) Date Received: 10/02/2012

Concentrated Extract Volume: 1000 (uL) Date Extracted: 10/04/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 10/05/2012

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	20	U UJ
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3´-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	Bis(2-ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U
92-52-4	1,1´-Biphenyl	10	U
95-94-3	1,2,4,5-Tetrachlorobenzene	10	U
58-90-2	2,3,4,6-Tetrachlorophenol	25	U
98-86-2	Acetophenone	10	U
1912-24-9	Atrazine	10	U
100-52-7	Benzaldehyde	10	U
105-60-2	Caprolactam	10	U

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-7

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L2071-10B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S6B0714.D

Level: (LOW/MED) LOW Extraction: (Type) SEPF

% Moisture: Decanted: (Y/N) Date Received: 10/05/2012

Concentrated Extract Volume: 1000 (uL) Date Extracted: 10/10/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 10/10/2012

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	Bis(2-chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2´-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
120-83-2	2,4-Dichlorophenol	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
111-91-1	Bis(2-chloroethoxy)methane	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U U5
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-7

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L2071-10B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S6B0714.D

Level: (LOW/MED) LOW Extraction: (Type) SEPF

% Moisture: Decanted: (Y/N) Date Received: 10/05/2012

Concentrated Extract Volume: 1000 (uL) Date Extracted: 10/10/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 10/10/2012

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	20	U UJ
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	1.1	J
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3´-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	Bis(2-ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U
92-52-4	1,1´-Biphenyl	10	U
95-94-3	1,2,4,5-Tetrachlorobenzene	10	U
58-90-2	2,3,4,6-Tetrachlorophenol	25	U
98-86-2	Acetophenone	10	U
1912-24-9	Atrazine	10	U
100-52-7	Benzaldehyde	10	U
105-60-2	Caprolactam	10	U

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-8

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L2071-05B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E5J1697F.D/E5J1697R.D

% Moisture: Decanted: (Y/N) Date Received: 10/02/2012

Extraction: (Type) SEPF Date Extracted: 10/04/2012

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 10/09/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4´-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4´-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4´-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U UJ
5103-74-2	gamma-Chlordane	0.050	U UJ
8001-35-2	Toxaphene	5.0	U

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DUP

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L2071-06B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E5J1700F.D/E5J1700R.D

% Moisture: Decanted: (Y/N) Date Received: 10/02/2012

Extraction: (Type) SEPF Date Extracted: 10/04/2012

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 10/10/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4´-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4´-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4´-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-7

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L2071-10B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E5J1832F.D/E5J1832R.D

% Moisture: Decanted: (Y/N) Date Received: 10/05/2012

Extraction: (Type) SEPF Date Extracted: 10/11/2012

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 10/12/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4´-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4´-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4´-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-8

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L2071-05B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E3J6146F.D/E3J6146R.D

% Moisture: Decanted: (Y/N) Date Received: 10/02/2012

Extraction: (Type) SEPF Date Extracted: 10/04/2012

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 10/10/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U
37324-23-5	Aroclor-1262	1.0	U
11100-14-4	Aroclor-1268	1.0	U

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DUP

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L2071-06B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E3J6149F.D/E3J6149R.D

% Moisture: Decanted: (Y/N) Date Received: 10/02/2012

Extraction: (Type) SEPF Date Extracted: 10/04/2012

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 10/10/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U
37324-23-5	Aroclor-1262	1.0	U
11100-14-4	Aroclor-1268	1.0	U

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-7

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L2071-10B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E2L4721F.D/E2L4721R.D

% Moisture: Decanted: (Y/N) Date Received: 10/05/2012

Extraction: (Type) SEPF Date Extracted: 10/11/2012

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 10/12/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U
37324-23-5	Aroclor-1262	1.0	U
11100-14-4	Aroclor-1268	1.0	U

U.S. EPA - CLP

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EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

DUP

Lab Name: Spectrum Analytical, Inc. Contract: 266396

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL2071

Matrix (soil/water): WATER Lab Sample ID: L2071-06

Level (low/med): MED Date Received: 10/02/2012

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	66.0	U		P
7440-36-0	Antimony	13.5	B		P
7440-38-2	Arsenic	4.3	U		P
7440-39-3	Barium	51.4	B		P
7440-41-7	Beryllium	0.26	U		P
7440-43-9	Cadmium	0.89	U		P
7440-70-2	Calcium	63300			P
7440-47-3	Chromium	3.9	B		P
7440-48-4	Cobalt	0.67	U		P
7440-50-8	Copper	4.1	B		P
7439-89-6	Iron	88.3	B		P
7439-92-1	Lead	4.2	U		P
7439-95-4	Magnesium	15700			P
7439-96-5	Manganese	25.3	B		P
7439-97-6	Mercury	0.028	U		CV
7440-02-0	Nickel	0.85	U		P
7440-09-7	Potassium	7380		E J	P
7782-49-2	Selenium	12.0	U		P
7440-22-4	Silver	6.9	U		P
7440-23-5	Sodium	140000			P
7440-28-0	Thallium	6.2	U		P
7440-62-2	Vanadium	3.1	B		P
7440-66-6	Zinc	8.9	B		P

Comments:

U.S. EPA - CLP

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EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

MW-7

Lab Name: Spectrum Analytical, Inc. Contract: 266396

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL2071

Matrix (soil/water): WATER Lab Sample ID: L2071-10

Level (low/med): MED Date Received: 10/05/2012

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	123	B		P
7440-36-0	Antimony	9.3	U		P
7440-38-2	Arsenic	4.3	U		P
7440-39-3	Barium	60.8	B		P
7440-41-7	Beryllium	0.26	U		P
7440-43-9	Cadmium	0.89	U		P
7440-70-2	Calcium	101000			P
7440-47-3	Chromium	0.64	U		P
7440-48-4	Cobalt	0.67	U		P
7440-50-8	Copper	3.6	U		P
7439-89-6	Iron	218			P
7439-92-1	Lead	4.2	U		P
7439-95-4	Magnesium	99600			P
7439-96-5	Manganese	92.7			P
7439-97-6	Mercury	0.028	U		CV
7440-02-0	Nickel	1.7	B		P
7440-09-7	Potassium	5340		E J	P
7782-49-2	Selenium	12.0	U		P
7440-22-4	Silver	6.9	U		P
7440-23-5	Sodium	100000			P
7440-28-0	Thallium	6.2	U		P
7440-62-2	Vanadium	1.1	U		P
7440-66-6	Zinc	7.7	B		P

Comments:

U.S. EPA - CLP

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EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

MW-8

Lab Name: Spectrum Analytical, Inc. Contract: 266396

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL2071

Matrix (soil/water): WATER Lab Sample ID: L2071-05

Level (low/med): MED Date Received: 10/02/2012

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	72.0	B		P
7440-36-0	Antimony	11.4	B		P
7440-38-2	Arsenic	4.3	U		P
7440-39-3	Barium	52.4	B		P
7440-41-7	Beryllium	0.26	U		P
7440-43-9	Cadmium	0.89	U		P
7440-70-2	Calcium	64400			P
7440-47-3	Chromium	3.7	B		P
7440-48-4	Cobalt	0.67	U		P
7440-50-8	Copper	3.6	U		P
7439-89-6	Iron	101	B		P
7439-92-1	Lead	4.2	U		P
7439-95-4	Magnesium	16100			P
7439-96-5	Manganese	28.9	B		P
7439-97-6	Mercury	0.028	U		CV
7440-02-0	Nickel	0.86	B		P
7440-09-7	Potassium	7550		E J	P
7782-49-2	Selenium	12.0	U		P
7440-22-4	Silver	6.9	U		P
7440-23-5	Sodium	142000			P
7440-28-0	Thallium	6.2	U		P
7440-62-2	Vanadium	2.8	B		P
7440-66-6	Zinc	6.6	B		P

Comments:

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

ANALYTICAL RESULTS

Project Location: Cohoes, NY
Date Received: 10/5/2012
Field Sample #: SV-6
Sample ID: 12J0233-01
Sample Matrix: Soil Gas
Sampled: 10/4/2012 09:42

Sample Description/Location:
Sub Description/Location:
Canister ID: 1265
Canister Size: 6 liter
Flow Controller ID: 4221
Sample Type: 1 hr

Work Order: 12J0233
Initial Vacuum(in Hg): -29.5
Final Vacuum(in Hg): -3
Receipt Vacuum(in Hg): -3.7
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

	ppbv			ug/m3			Date/Time	
Analyte	Results	RL	Flag	Results	RL	Dilution	Analyzed	Analyst
Acetone	ND	40		ND	95	20	10/6/12 5:45	WSD
Benzene	ND	1.0		ND	3.2	20	10/6/12 5:45	WSD
Benzyl chloride	ND	1.0		ND	5.2	20	10/6/12 5:45	WSD
Bromodichloromethane	ND	1.0		ND	6.7	20	10/6/12 5:45	WSD
Bromoform	ND	1.0		ND	10	20	10/6/12 5:45	WSD
Bromomethane	ND	1.0		ND	3.9	20	10/6/12 5:45	WSD
1,3-Butadiene	ND	1.0		ND	2.2	20	10/6/12 5:45	WSD
2-Butanone (MEK)	ND	40		ND	120	20	10/6/12 5:45	WSD
Carbon Disulfide	ND	10		ND	31	20	10/6/12 5:45	WSD
Carbon Tetrachloride	ND	1.0		ND	6.3	20	10/6/12 5:45	WSD
Chlorobenzene	ND	1.0		ND	4.6	20	10/6/12 5:45	WSD
Chloroethane	ND	1.0		ND	2.6	20	10/6/12 5:45	WSD
Chloroform	5.1	1.0		25	4.9	20	10/6/12 5:45	WSD
Chloromethane	ND	1.0		ND	2.1	20	10/6/12 5:45	WSD
Cyclohexane	ND	1.0		ND	3.4	20	10/6/12 5:45	WSD
Dibromochloromethane	ND	1.0		ND	8.5	20	10/6/12 5:45	WSD
1,2-Dibromoethane (EDB)	ND	1.0		ND	7.7	20	10/6/12 5:45	WSD
1,2-Dichlorobenzene	ND	1.0		ND	6.0	20	10/6/12 5:45	WSD
1,3-Dichlorobenzene	ND	1.0		ND	6.0	20	10/6/12 5:45	WSD
1,4-Dichlorobenzene	ND	1.0		ND	6.0	20	10/6/12 5:45	WSD
Dichlorodifluoromethane (Freon 12)	ND	1.0		ND	4.9	20	10/6/12 5:45	WSD
1,1-Dichloroethane	ND	1.0		ND	4.0	20	10/6/12 5:45	WSD
1,2-Dichloroethane	ND	1.0		ND	4.0	20	10/6/12 5:45	WSD
1,1-Dichloroethylene	ND	1.0		ND	4.0	20	10/6/12 5:45	WSD
cis-1,2-Dichloroethylene	18	1.0		72	4.0	20	10/6/12 5:45	WSD
trans-1,2-Dichloroethylene	ND	1.0		ND	4.0	20	10/6/12 5:45	WSD
1,2-Dichloropropane	ND	1.0		ND	4.6	20	10/6/12 5:45	WSD
cis-1,3-Dichloropropene	ND	1.0		ND	4.5	20	10/6/12 5:45	WSD
trans-1,3-Dichloropropene	ND	1.0		ND	4.5	20	10/6/12 5:45	WSD
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	1.0		ND	7.0	20	10/6/12 5:45	WSD
1,4-Dioxane	ND	1.0		ND	3.6	20	10/6/12 5:45	WSD
Ethanol	ND	40		ND	75	20	10/6/12 5:45	WSD
Ethyl Acetate	ND	1.0		ND	3.6	20	10/6/12 5:45	WSD
Ethylbenzene	ND	1.0		ND	4.3	20	10/6/12 5:45	WSD
4-Ethyltoluene	ND	1.0		ND	4.9	20	10/6/12 5:45	WSD
Heptane	ND	1.0		ND	4.1	20	10/6/12 5:45	WSD
Hexachlorobutadiene	ND	1.0		ND	11	20	10/6/12 5:45	WSD

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ANALYTICAL RESULTS

Project Location: Cohoes, NY
Date Received: 10/5/2012
Field Sample #: SV-6
Sample ID: 12J0233-01
Sample Matrix: Soil Gas
Sampled: 10/4/2012 09:42

Sample Description/Location:
Sub Description/Location:
Canister ID: 1265
Canister Size: 6 liter
Flow Controller ID: 4221
Sample Type: 1 hr

Work Order: 12J0233
Initial Vacuum(in Hg): -29.5
Final Vacuum(in Hg): -3
Receipt Vacuum(in Hg): -3.7
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv Results	RL	Flag	ug/m3 Results	RL	Dilution	Date/Time Analyzed	Analyst
Hexane	ND	40		ND	140	20	10/6/12 5:45	WSD
2-Hexanone (MBK)	ND	1.0		ND	4.1	20	10/6/12 5:45	WSD
Isopropanol	ND	40		ND	98	20	10/6/12 5:45	WSD
Methyl tert-Butyl Ether (MTBE)	ND	1.0		ND	3.6	20	10/6/12 5:45	WSD
Methylene Chloride	ND	10		ND	35	20	10/6/12 5:45	WSD
4-Methyl-2-pentanone (MIBK)	ND	1.0		ND	4.1	20	10/6/12 5:45	WSD
Naphthalene	ND	1.0		ND	5.2	20	10/6/12 5:45	WSD
Propene	ND	40		ND	69	20	10/6/12 5:45	WSD
Styrene	ND	1.0		ND	4.3	20	10/6/12 5:45	WSD
1,1,2,2-Tetrachloroethane	ND	1.0		ND	6.9	20	10/6/12 5:45	WSD
Tetrachloroethylene	1700	20		11000	140	400	10/8/12 6:35	WSD
Tetrahydrofuran	ND	1.0		ND	2.9	20	10/6/12 5:45	WSD
Toluene	ND	1.0		ND	3.8	20	10/6/12 5:45	WSD
1,2,4-Trichlorobenzene	ND	2.0		ND	15	20	10/6/12 5:45	WSD
1,1,1-Trichloroethane	ND	1.0		ND	5.5	20	10/6/12 5:45	WSD
1,1,2-Trichloroethane	ND	1.0		ND	5.5	20	10/6/12 5:45	WSD
Trichloroethylene	43	1.0		230	5.4	20	10/6/12 5:45	WSD
Trichlorofluoromethane (Freon 11)	21	1.0		120	5.6	20	10/6/12 5:45	WSD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0		ND	7.7	20	10/6/12 5:45	WSD
1,2,4-Trimethylbenzene	ND	1.0		ND	4.9	20	10/6/12 5:45	WSD
1,3,5-Trimethylbenzene	ND	1.0		ND	4.9	20	10/6/12 5:45	WSD
Vinyl Acetate	ND	2.0		ND	7.0	20	10/6/12 5:45	WSD
Vinyl Chloride	ND	1.0		ND	2.6	20	10/6/12 5:45	WSD
m&p-Xylene	ND	2.0		ND	8.7	20	10/6/12 5:45	WSD
o-Xylene	ND	1.0		ND	4.3	20	10/6/12 5:45	WSD

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	99.0	70-130	10/8/12 6:35
4-Bromofluorobenzene (1)	95.7	70-130	10/6/12 5:45

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ANALYTICAL RESULTS

Project Location: Cohoes, NY
Date Received: 10/5/2012
Field Sample #: SV-7
Sample ID: 12J0233-02
Sample Matrix: Soil Gas
Sampled: 10/4/2012 10:45

Sample Description/Location:
Sub Description/Location:
Canister ID: 1344
Canister Size: 6 liter
Flow Controller ID: 4222
Sample Type: 1 hr

Work Order: 12J0233
Initial Vacuum(in Hg): -29.5
Final Vacuum(in Hg): -2
Receipt Vacuum(in Hg): -8.2
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

	ppbv			ug/m3			Date/Time	
Analyte	**Results**	**RL**	**Flag**	**Results**	**RL**	**Dilution**	**Analyzed**	**Analyst**
Acetone	ND	4.0	UJ	ND	9.5	2	10/8/12 8:34	TPH
Benzene	0.34	0.10		1.1	0.32	2	10/8/12 8:34	TPH
Benzyl chloride	ND	0.10		ND	0.52	2	10/8/12 8:34	TPH
Bromodichloromethane	ND	0.10		ND	0.67	2	10/8/12 8:34	TPH
Bromoform	ND	0.10		ND	1.0	2	10/8/12 8:34	TPH
Bromomethane	ND	0.10		ND	0.39	2	10/8/12 8:34	TPH
1,3-Butadiene	ND	0.10		ND	0.22	2	10/8/12 8:34	TPH
2-Butanone (MEK)	ND	4.0		ND	12	2	10/8/12 8:34	TPH
Carbon Disulfide	ND	1.0		ND	3.1	2	10/8/12 8:34	TPH
Carbon Tetrachloride	ND	0.10		ND	0.63	2	10/8/12 8:34	TPH
Chlorobenzene	ND	0.10		ND	0.46	2	10/8/12 8:34	TPH
Chloroethane	ND	0.10		ND	0.26	2	10/8/12 8:34	TPH
Chloroform	ND	0.10		ND	0.49	2	10/8/12 8:34	TPH
Chloromethane	0.42	0.10		0.87	0.21	2	10/8/12 8:34	TPH
Cyclohexane	ND	0.10		ND	0.34	2	10/8/12 8:34	TPH
Dibromochloromethane	ND	0.10		ND	0.85	2	10/8/12 8:34	TPH
1,2-Dibromoethane (EDB)	ND	0.10		ND	0.77	2	10/8/12 8:34	TPH
1,2-Dichlorobenzene	ND	0.10		ND	0.60	2	10/8/12 8:34	TPH
1,3-Dichlorobenzene	ND	0.10		ND	0.60	2	10/8/12 8:34	TPH
1,4-Dichlorobenzene	ND	0.10		ND	0.60	2	10/8/12 8:34	TPH
Dichlorodifluoromethane (Freon 12)	0.45	0.10		2.2	0.49	2	10/8/12 8:34	TPH
1,1-Dichloroethane	ND	0.10		ND	0.40	2	10/8/12 8:34	TPH
1,2-Dichloroethane	ND	0.10		ND	0.40	2	10/8/12 8:34	TPH
1,1-Dichloroethylene	ND	0.10		ND	0.40	2	10/8/12 8:34	TPH
cis-1,2-Dichloroethylene	0.47	0.10	J	1.9	0.40	2	10/8/12 8:34	TPH
trans-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	10/8/12 8:34	TPH
1,2-Dichloropropane	ND	0.10		ND	0.46	2	10/8/12 8:34	TPH
cis-1,3-Dichloropropene	ND	0.10		ND	0.45	2	10/8/12 8:34	TPH
trans-1,3-Dichloropropene	ND	0.10		ND	0.45	2	10/8/12 8:34	TPH
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10		ND	0.70	2	10/8/12 8:34	TPH
1,4-Dioxane	ND	0.10		ND	0.36	2	10/8/12 8:34	TPH
Ethanol	ND	4.0		ND	7.5	2	10/8/12 8:34	TPH
Ethyl Acetate	0.51	0.10	NJ	1.8	0.36	2	10/8/12 8:34	TPH
Ethylbenzene	0.16	0.10		0.68	0.43	2	10/8/12 8:34	TPH
4-Ethyltoluene	ND	0.10		ND	0.49	2	10/8/12 8:34	TPH
Heptane	0.19	0.10		0.78	0.41	2	10/8/12 8:34	TPH
Hexachlorobutadiene	ND	0.10		ND	1.1	2	10/8/12 8:34	TPH

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ANALYTICAL RESULTS

Project Location: Cohoes, NY
Date Received: 10/5/2012
Field Sample #: SV-7
Sample ID: 12J0233-02
Sample Matrix: Soil Gas
Sampled: 10/4/2012 10:45

Sample Description/Location:
Sub Description/Location:
Canister ID: 1344
Canister Size: 6 liter
Flow Controller ID: 4222
Sample Type: 1 hr

Work Order: 12J0233
Initial Vacuum(in Hg): -29.5
Final Vacuum(in Hg): -2
Receipt Vacuum(in Hg): -8.2
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

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Analyte	ppbv Results	ppbv RL	Flag	ug/m3 Results	ug/m3 RL	Dilution	Date/Time Analyzed	Analyst
Hexane	ND	4.0		ND	14	2	10/8/12 8:34	TPH
2-Hexanone (MBK)	ND	0.10		ND	0.41	2	10/8/12 8:34	TPH
Isopropanol	ND	4.0		ND	9.8	2	10/8/12 8:34	TPH
Methyl tert-Butyl Ether (MTBE)	ND	0.10		ND	0.36	2	10/8/12 8:34	TPH
Methylene Chloride	ND	1.0		ND	3.5	2	10/8/12 8:34	TPH
4-Methyl-2-pentanone (MIBK)	ND	0.10		ND	0.41	2	10/8/12 8:34	TPH
Naphthalene	ND	0.10		ND	0.52	2	10/8/12 8:34	TPH
Propene	ND	4.0		ND	6.9	2	10/8/12 8:34	TPH
Styrene	ND	0.10		ND	0.43	2	10/8/12 8:34	TPH
1,1,2,2-Tetrachloroethane	ND	0.10		ND	0.69	2	10/8/12 8:34	TPH
Tetrachloroethylene	30	0.10	J	210	0.68	2	10/8/12 8:34	WSD
Tetrahydrofuran	ND	0.10		ND	0.29	2	10/8/12 8:34	TPH
Toluene	1.1	0.10		4.2	0.38	2	10/8/12 8:34	TPH
1,2,4-Trichlorobenzene	ND	0.20		ND	1.5	2	10/8/12 8:34	TPH
1,1,1-Trichloroethane	ND	0.10		ND	0.55	2	10/8/12 8:34	TPH
1,1,2-Trichloroethane	ND	0.10		ND	0.55	2	10/8/12 8:34	TPH
Trichloroethylene	0.43	0.10	J	2.3	0.54	2	10/8/12 8:34	TPH
Trichlorofluoromethane (Freon 11)	0.28	0.10		1.6	0.56	2	10/8/12 8:34	TPH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.10		ND	0.77	2	10/8/12 8:34	TPH
1,2,4-Trimethylbenzene	0.13	0.10		0.65	0.49	2	10/8/12 8:34	TPH
1,3,5-Trimethylbenzene	ND	0.10		ND	0.49	2	10/8/12 8:34	TPH
Vinyl Acetate	ND	0.20		ND	0.70	2	10/8/12 8:34	TPH
Vinyl Chloride	ND	0.10		ND	0.26	2	10/8/12 8:34	TPH
m&p-Xylene	0.53	0.20		2.3	0.87	2	10/8/12 8:34	TPH
o-Xylene	0.16	0.10		0.69	0.43	2	10/8/12 8:34	TPH

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	96.0	70-130	10/8/12 8:34

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ANALYTICAL RESULTS

Project Location: Cohoes, NY
Date Received: 10/5/2012
Field Sample #: Dup
Sample ID: 12J0233-03
Sample Matrix: Soil Gas
Sampled: 10/4/2012 00:00

Sample Description/Location:
Sub Description/Location:
Canister ID: 1330
Canister Size: 6 liter
Flow Controller ID: 4223
Sample Type: 1 hr

Work Order: 12J0233
Initial Vacuum(in Hg): -27
Final Vacuum(in Hg): -1.5
Receipt Vacuum(in Hg): -4.6
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv Results	ppbv RL	Flag	ug/m3 Results	ug/m3 RL	Dilution	Date/Time Analyzed	Analyst
Acetone	7.1	4.0	J	17	9.5	2	10/8/12 9:15	WSD
Benzene	0.28	0.10		0.91	0.32	2	10/8/12 9:15	WSD
Benzyl chloride	ND	0.10		ND	0.52	2	10/8/12 9:15	WSD
Bromodichloromethane	ND	0.10		ND	0.67	2	10/8/12 9:15	WSD
Bromoform	ND	0.10		ND	1.0	2	10/8/12 9:15	WSD
Bromomethane	ND	0.10		ND	0.39	2	10/8/12 9:15	WSD
1,3-Butadiene	ND	0.10		ND	0.22	2	10/8/12 9:15	WSD
2-Butanone (MEK)	ND	4.0		ND	12	2	10/8/12 9:15	WSD
Carbon Disulfide	ND	1.0		ND	3.1	2	10/8/12 9:15	WSD
Carbon Tetrachloride	ND	0.10		ND	0.63	2	10/8/12 9:15	WSD
Chlorobenzene	ND	0.10		ND	0.46	2	10/8/12 9:15	WSD
Chloroethane	ND	0.10		ND	0.26	2	10/8/12 9:15	WSD
Chloroform	ND	0.10		ND	0.49	2	10/8/12 9:15	WSD
Chloromethane	0.43	0.10	NJ	0.89	0.21	2	10/8/12 9:15	WSD
Cyclohexane	ND	0.10		ND	0.34	2	10/8/12 9:15	WSD
Dibromochloromethane	ND	0.10		ND	0.85	2	10/8/12 9:15	WSD
1,2-Dibromoethane (EDB)	ND	0.10		ND	0.77	2	10/8/12 9:15	WSD
1,2-Dichlorobenzene	ND	0.10		ND	0.60	2	10/8/12 9:15	WSD
1,3-Dichlorobenzene	ND	0.10		ND	0.60	2	10/8/12 9:15	WSD
1,4-Dichlorobenzene	ND	0.10		ND	0.60	2	10/8/12 9:15	WSD
Dichlorodifluoromethane (Freon 12)	0.46	0.10		2.3	0.49	2	10/8/12 9:15	WSD
1,1-Dichloroethane	ND	0.10		ND	0.40	2	10/8/12 9:15	WSD
1,2-Dichloroethane	ND	0.10		ND	0.40	2	10/8/12 9:15	WSD
1,1-Dichloroethylene	ND	0.10		ND	0.40	2	10/8/12 9:15	WSD
cis-1,2-Dichloroethylene	ND	0.10	UJ	ND	0.40	2	10/8/12 9:15	WSD
trans-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	10/8/12 9:15	WSD
1,2-Dichloropropane	ND	0.10		ND	0.46	2	10/8/12 9:15	WSD
cis-1,3-Dichloropropene	ND	0.10		ND	0.45	2	10/8/12 9:15	WSD
trans-1,3-Dichloropropene	ND	0.10		ND	0.45	2	10/8/12 9:15	WSD
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10		ND	0.70	2	10/8/12 9:15	WSD
1,4-Dioxane	ND	0.10		ND	0.36	2	10/8/12 9:15	WSD
Ethanol	7.7	4.0	J	15	7.5	2	10/8/12 9:15	WSD
Ethyl Acetate	0.94	0.10	NJ	3.4	0.36	2	10/8/12 9:15	WSD
Ethylbenzene	0.16	0.10		0.70	0.43	2	10/8/12 9:15	WSD
4-Ethyltoluene	ND	0.10		ND	0.49	2	10/8/12 9:15	WSD
Heptane	0.17	0.10		0.69	0.41	2	10/8/12 9:15	WSD
Hexachlorobutadiene	ND	0.10		ND	1.1	2	10/8/12 9:15	WSD

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ANALYTICAL RESULTS

Project Location: Cohoes, NY
Date Received: 10/5/2012
Field Sample #: Dup
Sample ID: 12J0233-03
Sample Matrix: Soil Gas
Sampled: 10/4/2012 00:00

Sample Description/Location:
Sub Description/Location:
Canister ID: 1330
Canister Size: 6 liter
Flow Controller ID: 4223
Sample Type: 1 hr

Work Order: 12J0233
Initial Vacuum(in Hg): -27
Final Vacuum(in Hg): -1.5
Receipt Vacuum(in Hg): -4.6
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv Results	ppbv RL	Flag	ug/m3 Results	ug/m3 RL	Dilution	Date/Time Analyzed	Analyst
Hexane	ND	4.0		ND	14	2	10/8/12 9:15	WSD
2-Hexanone (MBK)	ND	0.10		ND	0.41	2	10/8/12 9:15	WSD
Isopropanol	ND	4.0		ND	9.8	2	10/8/12 9:15	WSD
Methyl tert-Butyl Ether (MTBE)	ND	0.10		ND	0.36	2	10/8/12 9:15	WSD
Methylene Chloride	ND	1.0		ND	3.5	2	10/8/12 9:15	WSD
4-Methyl-2-pentanone (MIBK)	ND	0.10		ND	0.41	2	10/8/12 9:15	WSD
Naphthalene	ND	0.10		ND	0.52	2	10/8/12 9:15	WSD
Propene	ND	4.0		ND	6.9	2	10/8/12 9:15	WSD
Styrene	ND	0.10		ND	0.43	2	10/8/12 9:15	WSD
1,1,2,2-Tetrachloroethane	ND	0.10		ND	0.69	2	10/8/12 9:15	WSD
Tetrachloroethylene	3.4	0.10	J	23	0.68	2	10/8/12 9:15	WSD
Tetrahydrofuran	ND	0.10		ND	0.29	2	10/8/12 9:15	WSD
Toluene	1.1	0.10		4.0	0.38	2	10/8/12 9:15	WSD
1,2,4-Trichlorobenzene	ND	0.20		ND	1.5	2	10/8/12 9:15	WSD
1,1,1-Trichloroethane	ND	0.10		ND	0.55	2	10/8/12 9:15	WSD
1,1,2-Trichloroethane	ND	0.10		ND	0.55	2	10/8/12 9:15	WSD
Trichloroethylene	ND	0.10	UJ	ND	0.54	2	10/8/12 9:15	WSD
Trichlorofluoromethane (Freon 11)	0.26	0.10		1.4	0.56	2	10/8/12 9:15	WSD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.10		ND	0.77	2	10/8/12 9:15	WSD
1,2,4-Trimethylbenzene	0.10	0.10		0.49	0.49	2	10/8/12 9:15	WSD
1,3,5-Trimethylbenzene	ND	0.10		ND	0.49	2	10/8/12 9:15	WSD
Vinyl Acetate	ND	0.20		ND	0.70	2	10/8/12 9:15	WSD
Vinyl Chloride	ND	0.10		ND	0.26	2	10/8/12 9:15	WSD
m&p-Xylene	0.51	0.20		2.2	0.87	2	10/8/12 9:15	WSD
o-Xylene	0.16	0.10		0.71	0.43	2	10/8/12 9:15	WSD

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	97.2	70-130	10/8/12 9:15

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

ANALYTICAL RESULTS

Project Location: Cohoes, NY
Date Received: 10/5/2012
Field Sample #: SV-2
Sample ID: 12J0233-04
Sample Matrix: Soil Gas
Sampled: 10/4/2012 14:30

Sample Description/Location:
Sub Description/Location:
Canister ID: 1722
Canister Size: 6 liter
Flow Controller ID: 4111
Sample Type: 1 hr

Work Order: 12J0233
Initial Vacuum(in Hg): -28
Final Vacuum(in Hg): -10
Receipt Vacuum(in Hg): -11.5
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv Results	ppbv RL	Flag	ug/m3 Results	ug/m3 RL	Dilution	Date/Time Analyzed	Analyst
Acetone	8.5	4.0		20	9.5	2	10/8/12 9:57	WSD
Benzene	0.36	0.10		1.2	0.32	2	10/8/12 9:57	WSD
Benzyl chloride	ND	0.10		ND	0.52	2	10/8/12 9:57	WSD
Bromodichloromethane	ND	0.10		ND	0.67	2	10/8/12 9:57	WSD
Bromoform	ND	0.10		ND	1.0	2	10/8/12 9:57	WSD
Bromomethane	ND	0.10		ND	0.39	2	10/8/12 9:57	WSD
1,3-Butadiene	ND	0.10		ND	0.22	2	10/8/12 9:57	WSD
2-Butanone (MEK)	ND	4.0		ND	12	2	10/8/12 9:57	WSD
Carbon Disulfide	2.4	1.0		7.4	3.1	2	10/8/12 9:57	WSD
Carbon Tetrachloride	ND	0.10		ND	0.63	2	10/8/12 9:57	WSD
Chlorobenzene	ND	0.10		ND	0.46	2	10/8/12 9:57	WSD
Chloroethane	ND	0.10		ND	0.26	2	10/8/12 9:57	WSD
Chloroform	0.28	0.10		1.4	0.49	2	10/8/12 9:57	WSD
Chloromethane	0.45	0.10		0.93	0.21	2	10/8/12 9:57	WSD
Cyclohexane	ND	0.10		ND	0.34	2	10/8/12 9:57	WSD
Dibromochloromethane	ND	0.10		ND	0.85	2	10/8/12 9:57	WSD
1,2-Dibromoethane (EDB)	ND	0.10		ND	0.77	2	10/8/12 9:57	WSD
1,2-Dichlorobenzene	ND	0.10		ND	0.60	2	10/8/12 9:57	WSD
1,3-Dichlorobenzene	ND	0.10		ND	0.60	2	10/8/12 9:57	WSD
1,4-Dichlorobenzene	ND	0.10		ND	0.60	2	10/8/12 9:57	WSD
Dichlorodifluoromethane (Freon 12)	0.45	0.10		2.2	0.49	2	10/8/12 9:57	WSD
1,1-Dichloroethane	ND	0.10		ND	0.40	2	10/8/12 9:57	WSD
1,2-Dichloroethane	ND	0.10		ND	0.40	2	10/8/12 9:57	WSD
1,1-Dichloroethylene	ND	0.10		ND	0.40	2	10/8/12 9:57	WSD
cis-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	10/8/12 9:57	WSD
trans-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	10/8/12 9:57	WSD
1,2-Dichloropropane	ND	0.10		ND	0.46	2	10/8/12 9:57	WSD
cis-1,3-Dichloropropene	ND	0.10		ND	0.45	2	10/8/12 9:57	WSD
trans-1,3-Dichloropropene	ND	0.10		ND	0.45	2	10/8/12 9:57	WSD
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10		ND	0.70	2	10/8/12 9:57	WSD
1,4-Dioxane	ND	0.10		ND	0.36	2	10/8/12 9:57	WSD
Ethanol	ND	4.0		ND	7.5	2	10/8/12 9:57	WSD
Ethyl Acetate	ND ~~0.37~~	~~0.10~~ 0.37	U	ND ~~1.3~~	~~0.36~~ 1.3	2	10/8/12 9:57	WSD
Ethylbenzene	0.12	0.10		0.53	0.43	2	10/8/12 9:57	WSD
4-Ethyltoluene	ND	0.10		ND	0.49	2	10/8/12 9:57	WSD
Heptane	0.20	0.10		0.81	0.41	2	10/8/12 9:57	WSD
Hexachlorobutadiene	ND	0.10		ND	1.1	2	10/8/12 9:57	WSD

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ANALYTICAL RESULTS

Project Location: Cohoes, NY
Date Received: 10/5/2012
Field Sample #: SV-2
Sample ID: 12J0233-04
Sample Matrix: Soil Gas
Sampled: 10/4/2012 14:30

Sample Description/Location:
Sub Description/Location:
Canister ID: 1722
Canister Size: 6 liter
Flow Controller ID: 4111
Sample Type: 1 hr

Work Order: 12J0233
Initial Vacuum(in Hg): -28
Final Vacuum(in Hg): -10
Receipt Vacuum(in Hg): -11.5
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv Results	ppbv RL	Flag	ug/m3 Results	ug/m3 RL	Dilution	Date/Time Analyzed	Analyst
Hexane	ND	4.0		ND	14	2	10/8/12 9:57	WSD
2-Hexanone (MBK)	ND	0.10		ND	0.41	2	10/8/12 9:57	WSD
Isopropanol	ND	4.0		ND	9.8	2	10/8/12 9:57	WSD
Methyl tert-Butyl Ether (MTBE)	0.11	0.10		0.40	0.36	2	10/8/12 9:57	WSD
Methylene Chloride	ND	1.0		ND	3.5	2	10/8/12 9:57	WSD
4-Methyl-2-pentanone (MIBK)	ND	0.10		ND	0.41	2	10/8/12 9:57	WSD
Naphthalene	ND	0.10		ND	0.52	2	10/8/12 9:57	WSD
Propene	ND	4.0		ND	6.9	2	10/8/12 9:57	WSD
Styrene	ND	0.10		ND	0.43	2	10/8/12 9:57	WSD
1,1,2,2-Tetrachloroethane	ND	0.10		ND	0.69	2	10/8/12 9:57	WSD
Tetrachloroethylene	0.22	0.10		1.5	0.68	2	10/8/12 9:57	WSD
Tetrahydrofuran	ND	0.10		ND	0.29	2	10/8/12 9:57	WSD
Toluene	1.1	0.10		4.3	0.38	2	10/8/12 9:57	WSD
1,2,4-Trichlorobenzene	ND	0.20		ND	1.5	2	10/8/12 9:57	WSD
1,1,1-Trichloroethane	ND	0.10		ND	0.55	2	10/8/12 9:57	WSD
1,1,2-Trichloroethane	ND	0.10		ND	0.55	2	10/8/12 9:57	WSD
Trichloroethylene	ND	0.10		ND	0.54	2	10/8/12 9:57	WSD
Trichlorofluoromethane (Freon 11)	0.23	0.10		1.3	0.56	2	10/8/12 9:57	WSD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.10		ND	0.77	2	10/8/12 9:57	WSD
1,2,4-Trimethylbenzene	0.11	0.10		0.55	0.49	2	10/8/12 9:57	WSD
1,3,5-Trimethylbenzene	ND	0.10		ND	0.49	2	10/8/12 9:57	WSD
Vinyl Acetate	ND	0.20		ND	0.70	2	10/8/12 9:57	WSD
Vinyl Chloride	ND	0.10		ND	0.26	2	10/8/12 9:57	WSD
m&p-Xylene	0.41	0.20		1.8	0.87	2	10/8/12 9:57	WSD
o-Xylene	0.13	0.10		0.56	0.43	2	10/8/12 9:57	WSD

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	94.4	70-130	10/8/12 9:57

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ANALYTICAL RESULTS

Project Location: Cohoes, NY
Date Received: 10/5/2012
Field Sample #: SV-1
Sample ID: 12J0233-05
Sample Matrix: Soil Gas
Sampled: 10/4/2012 10:35

Sample Description/Location:
Sub Description/Location:
Canister ID: 1053
Canister Size: 6 liter
Flow Controller ID: 4217
Sample Type: 1 hr

Work Order: 12J0233
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): -3
Receipt Vacuum(in Hg): -2.8
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv Results	ppbv RL	Flag	ug/m3 Results	ug/m3 RL	Dilution	Date/Time Analyzed	Analyst
Acetone	7.1	4.0		17	9.5	2	10/8/12 10:38	WSD
Benzene	~~ND 0.31~~	~~0.10~~ 0.31	U	~~0.98~~ ND	~~0.32~~ 0.98	2	10/8/12 10:38	WSD
Benzyl chloride	0.28	0.10		1.5	0.52	2	10/8/12 10:38	WSD
Bromodichloromethane	ND	0.10		ND	0.67	2	10/8/12 10:38	WSD
Bromoform	ND	0.10		ND	1.0	2	10/8/12 10:38	WSD
Bromomethane	ND	0.10		ND	0.39	2	10/8/12 10:38	WSD
1,3-Butadiene	ND	0.10		ND	0.22	2	10/8/12 10:38	WSD
2-Butanone (MEK)	ND	4.0		ND	12	2	10/8/12 10:38	WSD
Carbon Disulfide	3.1	1.0		9.5	3.1	2	10/8/12 10:38	WSD
Carbon Tetrachloride	ND	0.10		ND	0.63	2	10/8/12 10:38	WSD
Chlorobenzene	ND	0.10		ND	0.46	2	10/8/12 10:38	WSD
Chloroethane	ND	0.10		ND	0.26	2	10/8/12 10:38	WSD
Chloroform	ND	0.10		ND	0.49	2	10/8/12 10:38	WSD
Chloromethane	0.64	0.10	NJ	1.3	0.21	2	10/8/12 10:38	WSD
Cyclohexane	ND	0.10		ND	0.34	2	10/8/12 10:38	WSD
Dibromochloromethane	ND	0.10		ND	0.85	2	10/8/12 10:38	WSD
1,2-Dibromoethane (EDB)	ND	0.10		ND	0.77	2	10/8/12 10:38	WSD
1,2-Dichlorobenzene	ND	0.10		ND	0.60	2	10/8/12 10:38	WSD
1,3-Dichlorobenzene	ND	0.10		ND	0.60	2	10/8/12 10:38	WSD
1,4-Dichlorobenzene	ND	0.10		ND	0.60	2	10/8/12 10:38	WSD
Dichlorodifluoromethane (Freon 12)	0.45	0.10		2.2	0.49	2	10/8/12 10:38	WSD
1,1-Dichloroethane	ND	0.10		ND	0.40	2	10/8/12 10:38	WSD
1,2-Dichloroethane	ND	0.10		ND	0.40	2	10/8/12 10:38	WSD
1,1-Dichloroethylene	ND	0.10		ND	0.40	2	10/8/12 10:38	WSD
cis-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	10/8/12 10:38	WSD
trans-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	10/8/12 10:38	WSD
1,2-Dichloropropane	ND	0.10		ND	0.46	2	10/8/12 10:38	WSD
cis-1,3-Dichloropropene	ND	0.10		ND	0.45	2	10/8/12 10:38	WSD
trans-1,3-Dichloropropene	ND	0.10		ND	0.45	2	10/8/12 10:38	WSD
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10		ND	0.70	2	10/8/12 10:38	WSD
1,4-Dioxane	ND	0.10		ND	0.36	2	10/8/12 10:38	WSD
Ethanol	5.6	4.0		10	7.5	2	10/8/12 10:38	WSD
Ethyl Acetate	ND	0.10		ND	0.36	2	10/8/12 10:38	WSD
Ethylbenzene	0.11	0.10		0.46	0.43	2	10/8/12 10:38	WSD
4-Ethyltoluene	ND	0.10		ND	0.49	2	10/8/12 10:38	WSD
Heptane	0.12	0.10		0.49	0.41	2	10/8/12 10:38	WSD
Hexachlorobutadiene	ND	0.10		ND	1.1	2	10/8/12 10:38	WSD

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ANALYTICAL RESULTS

Project Location: Cohoes, NY
Date Received: 10/5/2012
Field Sample #: SV-1
Sample ID: 12J0233-05
Sample Matrix: Soil Gas
Sampled: 10/4/2012 10:35

Sample Description/Location:
Sub Description/Location:
Canister ID: 1053
Canister Size: 6 liter
Flow Controller ID: 4217
Sample Type: 1 hr

Work Order: 12J0233
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): -3
Receipt Vacuum(in Hg): -2.8
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv Results	ppbv RL	Flag	ug/m3 Results	ug/m3 RL	Dilution	Date/Time Analyzed	Analyst
Hexane	ND	4.0		ND	14	2	10/8/12 10:38	WSD
2-Hexanone (MBK)	ND	0.10		ND	0.41	2	10/8/12 10:38	WSD
Isopropanol	ND	4.0		ND	9.8	2	10/8/12 10:38	WSD
Methyl tert-Butyl Ether (MTBE)	ND	0.10		ND	0.36	2	10/8/12 10:38	WSD
Methylene Chloride	ND	1.0		ND	3.5	2	10/8/12 10:38	WSD
4-Methyl-2-pentanone (MIBK)	ND	0.10		ND	0.41	2	10/8/12 10:38	WSD
Naphthalene	ND	0.10		ND	0.52	2	10/8/12 10:38	WSD
Propene	ND	4.0		ND	6.9	2	10/8/12 10:38	WSD
Styrene	ND	0.10		ND	0.43	2	10/8/12 10:38	WSD
1,1,2,2-Tetrachloroethane	ND	0.10		ND	0.69	2	10/8/12 10:38	WSD
Tetrachloroethylene	0.48	0.10		3.2	0.68	2	10/8/12 10:38	WSD
Tetrahydrofuran	ND	0.10		ND	0.29	2	10/8/12 10:38	WSD
Toluene	0.80	0.10		3.0	0.38	2	10/8/12 10:38	WSD
1,2,4-Trichlorobenzene	ND	0.20		ND	1.5	2	10/8/12 10:38	WSD
1,1,1-Trichloroethane	ND	0.10		ND	0.55	2	10/8/12 10:38	WSD
1,1,2-Trichloroethane	ND	0.10		ND	0.55	2	10/8/12 10:38	WSD
Trichloroethylene	ND	0.10		ND	0.54	2	10/8/12 10:38	WSD
Trichlorofluoromethane (Freon 11)	0.23	0.10		1.3	0.56	2	10/8/12 10:38	WSD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.10		ND	0.77	2	10/8/12 10:38	WSD
1,2,4-Trimethylbenzene	ND	0.10		ND	0.49	2	10/8/12 10:38	WSD
1,3,5-Trimethylbenzene	ND	0.10		ND	0.49	2	10/8/12 10:38	WSD
Vinyl Acetate	ND	0.20		ND	0.70	2	10/8/12 10:38	WSD
Vinyl Chloride	ND	0.10		ND	0.26	2	10/8/12 10:38	WSD
m&p-Xylene	0.33	0.20		1.5	0.87	2	10/8/12 10:38	WSD
o-Xylene	0.11	0.10		0.49	0.43	2	10/8/12 10:38	WSD

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	96.7	70-130	10/8/12 10:38

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ANALYTICAL RESULTS

Project Location: Cohoes, NY
Date Received: 10/5/2012
Field Sample #: SV-8
Sample ID: 12J0233-06
Sample Matrix: Soil Gas
Sampled: 10/4/2012 11:55

Sample Description/Location:
Sub Description/Location:
Canister ID: 1203
Canister Size: 6 liter
Flow Controller ID: 4219
Sample Type: 1 hr

Work Order: 12J0233
Initial Vacuum(in Hg): -28
Final Vacuum(in Hg): -3.5
Receipt Vacuum(in Hg): -4
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv Results	ppbv RL	Flag	ug/m3 Results	ug/m3 RL	Dilution	Date/Time Analyzed	Analyst
Acetone	ND	40		ND	95	20	10/6/12 9:16	WSD
Benzene	1.9	1.0		6.1	3.2	20	10/6/12 9:16	WSD
Benzyl chloride	ND	1.0		ND	5.2	20	10/6/12 9:16	WSD
Bromodichloromethane	ND	1.0		ND	6.7	20	10/6/12 9:16	WSD
Bromoform	ND	1.0		ND	10	20	10/6/12 9:16	WSD
Bromomethane	ND	1.0		ND	3.9	20	10/6/12 9:16	WSD
1,3-Butadiene	ND	1.0		ND	2.2	20	10/6/12 9:16	WSD
2-Butanone (MEK)	ND	40		ND	120	20	10/6/12 9:16	WSD
Carbon Disulfide	ND	10		ND	31	20	10/6/12 9:16	WSD
Carbon Tetrachloride	ND	1.0		ND	6.3	20	10/6/12 9:16	WSD
Chlorobenzene	ND	1.0		ND	4.6	20	10/6/12 9:16	WSD
Chloroethane	ND	1.0		ND	2.6	20	10/6/12 9:16	WSD
Chloroform	2.6	1.0		12	4.9	20	10/6/12 9:16	WSD
Chloromethane	ND	1.0		ND	2.1	20	10/6/12 9:16	WSD
Cyclohexane	ND	1.0		ND	3.4	20	10/6/12 9:16	WSD
Dibromochloromethane	ND	1.0		ND	8.5	20	10/6/12 9:16	WSD
1,2-Dibromoethane (EDB)	ND	1.0		ND	7.7	20	10/6/12 9:16	WSD
1,2-Dichlorobenzene	ND	1.0		ND	6.0	20	10/6/12 9:16	WSD
1,3-Dichlorobenzene	ND	1.0		ND	6.0	20	10/6/12 9:16	WSD
1,4-Dichlorobenzene	ND	1.0		ND	6.0	20	10/6/12 9:16	WSD
Dichlorodifluoromethane (Freon 12)	ND	1.0		ND	4.9	20	10/6/12 9:16	WSD
1,1-Dichloroethane	ND	1.0		ND	4.0	20	10/6/12 9:16	WSD
1,2-Dichloroethane	ND	1.0		ND	4.0	20	10/6/12 9:16	WSD
1,1-Dichloroethylene	ND	1.0		ND	4.0	20	10/6/12 9:16	WSD
cis-1,2-Dichloroethylene	18	1.0		72	4.0	20	10/6/12 9:16	WSD
trans-1,2-Dichloroethylene	ND	1.0		ND	4.0	20	10/6/12 9:16	WSD
1,2-Dichloropropane	ND	1.0		ND	4.6	20	10/6/12 9:16	WSD
cis-1,3-Dichloropropene	ND	1.0		ND	4.5	20	10/6/12 9:16	WSD
trans-1,3-Dichloropropene	ND	1.0		ND	4.5	20	10/6/12 9:16	WSD
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	1.0		ND	7.0	20	10/6/12 9:16	WSD
1,4-Dioxane	ND	1.0		ND	3.6	20	10/6/12 9:16	WSD
Ethanol	ND	40		ND	75	20	10/6/12 9:16	WSD
Ethyl Acetate	ND	1.0		ND	3.6	20	10/6/12 9:16	WSD
Ethylbenzene	ND	1.0		ND	4.3	20	10/6/12 9:16	WSD
4-Ethyltoluene	ND	1.0		ND	4.9	20	10/6/12 9:16	WSD
Heptane	ND	1.0		ND	4.1	20	10/6/12 9:16	WSD
Hexachlorobutadiene	ND	1.0		ND	11	20	10/6/12 9:16	WSD

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

ANALYTICAL RESULTS

Project Location: Cohoes, NY
Date Received: 10/5/2012
Field Sample #: SV-8
Sample ID: 12J0233-06
Sample Matrix: Soil Gas
Sampled: 10/4/2012 11:55

Sample Description/Location:
Sub Description/Location:
Canister ID: 1203
Canister Size: 6 liter
Flow Controller ID: 4219
Sample Type: 1 hr

Work Order: 12J0233
Initial Vacuum(in Hg): -28
Final Vacuum(in Hg): -3.5
Receipt Vacuum(in Hg): -4
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv Results	ppbv RL	Flag	ug/m3 Results	ug/m3 RL	Dilution	Date/Time Analyzed	Analyst
Hexane	ND	40		ND	140	20	10/6/12 9:16	WSD
2-Hexanone (MBK)	ND	1.0		ND	4.1	20	10/6/12 9:16	WSD
Isopropanol	ND	40		ND	98	20	10/6/12 9:16	WSD
Methyl tert-Butyl Ether (MTBE)	ND	1.0		ND	3.6	20	10/6/12 9:16	WSD
Methylene Chloride	ND	10		ND	35	20	10/6/12 9:16	WSD
4-Methyl-2-pentanone (MIBK)	ND	1.0		ND	4.1	20	10/6/12 9:16	WSD
Naphthalene	ND	1.0		ND	5.2	20	10/6/12 9:16	WSD
Propene	ND	40		ND	69	20	10/6/12 9:16	WSD
Styrene	ND	1.0		ND	4.3	20	10/6/12 9:16	WSD
1,1,2,2-Tetrachloroethane	ND	1.0		ND	6.9	20	10/6/12 9:16	WSD
Tetrachloroethylene	18000	40		120000	270	800	10/8/12 7:15	WSD
Tetrahydrofuran	ND	1.0		ND	2.9	20	10/6/12 9:16	WSD
Toluene	ND	1.0		ND	3.8	20	10/6/12 9:16	WSD
1,2,4-Trichlorobenzene	ND	2.0		ND	15	20	10/6/12 9:16	WSD
1,1,1-Trichloroethane	22	1.0		120	5.5	20	10/6/12 9:16	WSD
1,1,2-Trichloroethane	ND	1.0		ND	5.5	20	10/6/12 9:16	WSD
Trichloroethylene	230	1.0		1200	5.4	20	10/6/12 9:16	WSD
Trichlorofluoromethane (Freon 11)	12	1.0		69	5.6	20	10/6/12 9:16	WSD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0		ND	7.7	20	10/6/12 9:16	WSD
1,2,4-Trimethylbenzene	ND	1.0		ND	4.9	20	10/6/12 9:16	WSD
1,3,5-Trimethylbenzene	ND	1.0		ND	4.9	20	10/6/12 9:16	WSD
Vinyl Acetate	ND	2.0		ND	7.0	20	10/6/12 9:16	WSD
Vinyl Chloride	ND	1.0		ND	2.6	20	10/6/12 9:16	WSD
m&p-Xylene	ND	2.0		ND	8.7	20	10/6/12 9:16	WSD
o-Xylene	ND	1.0		ND	4.3	20	10/6/12 9:16	WSD

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	96.3	70-130	10/8/12 7:15
4-Bromofluorobenzene (1)	100	70-130	10/6/12 9:16

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ANALYTICAL RESULTS

Project Location: Cohoes, NY
Date Received: 10/5/2012
Field Sample #: SV-10
Sample ID: 12J0233-09
Sample Matrix: Soil Gas
Sampled: 10/4/2012 12:26

Sample Description/Location:
Sub Description/Location:
Canister ID: 1625
Canister Size: 6 liter
Flow Controller ID: 4224
Sample Type: 1 hr

Work Order: 12J0233
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): -3.5
Receipt Vacuum(in Hg): -4.2
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv Results	ppbv RL	Flag	ug/m3 Results	ug/m3 RL	Dilution	Date/Time Analyzed	Analyst
Acetone	6.6	4.0		16	9.5	2	10/8/12 11:19	WSD
Benzene	ND	0.10		ND	0.32	2	10/8/12 11:19	WSD
Benzyl chloride	ND	0.10		ND	0.52	2	10/8/12 11:19	WSD
Bromodichloromethane	ND	0.10		ND	0.67	2	10/8/12 11:19	WSD
Bromoform	ND	0.10		ND	1.0	2	10/8/12 11:19	WSD
Bromomethane	ND	0.10		ND	0.39	2	10/8/12 11:19	WSD
1,3-Butadiene	ND	0.10		ND	0.22	2	10/8/12 11:19	WSD
2-Butanone (MEK)	ND	4.0		ND	12	2	10/8/12 11:19	WSD
Carbon Disulfide	ND	1.0		ND	3.1	2	10/8/12 11:19	WSD
Carbon Tetrachloride	ND	0.10		ND	0.63	2	10/8/12 11:19	WSD
Chlorobenzene	ND	0.10		ND	0.46	2	10/8/12 11:19	WSD
Chloroethane	ND	0.10		ND	0.26	2	10/8/12 11:19	WSD
Chloroform	4.1	0.10		20	0.49	2	10/8/12 11:19	WSD
Chloromethane	ND ~~0.21~~	~~0.10~~ 0.21	U	~~0.43~~ ND	~~0.21~~ 0.43	2	10/8/12 11:19	WSD
Cyclohexane	ND	0.10		ND	0.34	2	10/8/12 11:19	WSD
Dibromochloromethane	ND	0.10		ND	0.85	2	10/8/12 11:19	WSD
1,2-Dibromoethane (EDB)	ND	0.10		ND	0.77	2	10/8/12 11:19	WSD
1,2-Dichlorobenzene	ND	0.10		ND	0.60	2	10/8/12 11:19	WSD
1,3-Dichlorobenzene	ND	0.10		ND	0.60	2	10/8/12 11:19	WSD
1,4-Dichlorobenzene	ND	0.10		ND	0.60	2	10/8/12 11:19	WSD
Dichlorodifluoromethane (Freon 12)	0.45	0.10		2.2	0.49	2	10/8/12 11:19	WSD
1,1-Dichloroethane	ND	0.10		ND	0.40	2	10/8/12 11:19	WSD
1,2-Dichloroethane	ND	0.10		ND	0.40	2	10/8/12 11:19	WSD
1,1-Dichloroethylene	ND	0.10		ND	0.40	2	10/8/12 11:19	WSD
cis-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	10/8/12 11:19	WSD
trans-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	10/8/12 11:19	WSD
1,2-Dichloropropane	ND	0.10		ND	0.46	2	10/8/12 11:19	WSD
cis-1,3-Dichloropropene	ND	0.10		ND	0.45	2	10/8/12 11:19	WSD
trans-1,3-Dichloropropene	ND	0.10		ND	0.45	2	10/8/12 11:19	WSD
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10		ND	0.70	2	10/8/12 11:19	WSD
1,4-Dioxane	ND	0.10		ND	0.36	2	10/8/12 11:19	WSD
Ethanol	ND	4.0		ND	7.5	2	10/8/12 11:19	WSD
Ethyl Acetate	ND	0.10		ND	0.36	2	10/8/12 11:19	WSD
Ethylbenzene	ND	0.10		ND	0.43	2	10/8/12 11:19	WSD
4-Ethyltoluene	ND	0.10		ND	0.49	2	10/8/12 11:19	WSD
Heptane	ND	0.10		ND	0.41	2	10/8/12 11:19	WSD
Hexachlorobutadiene	ND	0.10		ND	1.1	2	10/8/12 11:19	WSD

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ANALYTICAL RESULTS

Project Location: Cohoes, NY
Date Received: 10/5/2012
Field Sample #: SV-10
Sample ID: 12J0233-09
Sample Matrix: Soil Gas
Sampled: 10/4/2012 12:26

Sample Description/Location:
Sub Description/Location:
Canister ID: 1625
Canister Size: 6 liter
Flow Controller ID: 4224
Sample Type: 1 hr

Work Order: 12J0233
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): -3.5
Receipt Vacuum(in Hg): -4.2
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv Results	ppbv RL	Flag	ug/m3 Results	ug/m3 RL	Dilution	Date/Time Analyzed	Analyst
Hexane	ND	4.0		ND	14	2	10/8/12 11:19	WSD
2-Hexanone (MBK)	0.17	0.10		0.70	0.41	2	10/8/12 11:19	WSD
Isopropanol	ND	4.0		ND	9.8	2	10/8/12 11:19	WSD
Methyl tert-Butyl Ether (MTBE)	ND	0.10		ND	0.36	2	10/8/12 11:19	WSD
Methylene Chloride	ND	1.0		ND	3.5	2	10/8/12 11:19	WSD
4-Methyl-2-pentanone (MIBK)	ND	0.10		ND	0.41	2	10/8/12 11:19	WSD
Naphthalene	ND	0.10		ND	0.52	2	10/8/12 11:19	WSD
Propene	ND	4.0		ND	6.9	2	10/8/12 11:19	WSD
Styrene	ND	0.10		ND	0.43	2	10/8/12 11:19	WSD
1,1,2,2-Tetrachloroethane	ND	0.10		ND	0.69	2	10/8/12 11:19	WSD
Tetrachloroethylene	2.9	0.10		20	0.68	2	10/8/12 11:19	WSD
Tetrahydrofuran	ND	0.10		ND	0.29	2	10/8/12 11:19	WSD
Toluene	0.11	0.10		0.41	0.38	2	10/8/12 11:19	WSD
1,2,4-Trichlorobenzene	ND	0.20		ND	1.5	2	10/8/12 11:19	WSD
1,1,1-Trichloroethane	0.13	0.10		0.69	0.55	2	10/8/12 11:19	WSD
1,1,2-Trichloroethane	ND	0.10		ND	0.55	2	10/8/12 11:19	WSD
Trichloroethylene	ND	0.10		ND	0.54	2	10/8/12 11:19	WSD
Trichlorofluoromethane (Freon 11)	0.35	0.10		2.0	0.56	2	10/8/12 11:19	WSD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.10		ND	0.77	2	10/8/12 11:19	WSD
1,2,4-Trimethylbenzene	ND	0.10		ND	0.49	2	10/8/12 11:19	WSD
1,3,5-Trimethylbenzene	ND	0.10		ND	0.49	2	10/8/12 11:19	WSD
Vinyl Acetate	ND	0.20		ND	0.70	2	10/8/12 11:19	WSD
Vinyl Chloride	ND	0.10		ND	0.26	2	10/8/12 11:19	WSD
m&p-Xylene	ND	0.20		ND	0.87	2	10/8/12 11:19	WSD
o-Xylene	ND	0.10		ND	0.43	2	10/8/12 11:19	WSD

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	96.2	70-130	10/8/12 11:19

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ANALYTICAL RESULTS

Project Location: Cohoes, NY
Date Received: 10/5/2012
Field Sample #: Ambient Air 2
Sample ID: 12J0233-10
Sample Matrix: Ambient Air
Sampled: 10/4/2012 12:55

Sample Description/Location:
Sub Description/Location:
Canister ID: 1666
Canister Size: 6 liter
Flow Controller ID: 4227
Sample Type: 1 hr

Work Order: 12J0233
Initial Vacuum(in Hg): -29
Final Vacuum(in Hg): -4
Receipt Vacuum(in Hg): -4
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv Results	ppbv RL	Flag	ug/m3 Results	ug/m3 RL	Dilution	Date/Time Analyzed	Analyst
Acetone	7.4	4.0		18	9.5	2	10/8/12 12:00	WSD
Benzene	0.24	0.10		0.77	0.32	2	10/8/12 12:00	WSD
Benzyl chloride	ND	0.10		ND	0.52	2	10/8/12 12:00	WSD
Bromodichloromethane	ND	0.10		ND	0.67	2	10/8/12 12:00	WSD
Bromoform	ND	0.10		ND	1.0	2	10/8/12 12:00	WSD
Bromomethane	ND	0.10		ND	0.39	2	10/8/12 12:00	WSD
1,3-Butadiene	ND	0.10		ND	0.22	2	10/8/12 12:00	WSD
2-Butanone (MEK)	ND	4.0		ND	12	2	10/8/12 12:00	WSD
Carbon Disulfide	ND	1.0		ND	3.1	2	10/8/12 12:00	WSD
Carbon Tetrachloride	ND	0.10		ND	0.63	2	10/8/12 12:00	WSD
Chlorobenzene	ND	0.10		ND	0.46	2	10/8/12 12:00	WSD
Chloroethane	ND	0.10		ND	0.26	2	10/8/12 12:00	WSD
Chloroform	ND	0.10		ND	0.49	2	10/8/12 12:00	WSD
Chloromethane	0.46	0.10		0.95	0.21	2	10/8/12 12:00	WSD
Cyclohexane	ND	0.10		ND	0.34	2	10/8/12 12:00	WSD
Dibromochloromethane	ND	0.10		ND	0.85	2	10/8/12 12:00	WSD
1,2-Dibromoethane (EDB)	ND	0.10		ND	0.77	2	10/8/12 12:00	WSD
1,2-Dichlorobenzene	ND	0.10		ND	0.60	2	10/8/12 12:00	WSD
1,3-Dichlorobenzene	ND	0.10		ND	0.60	2	10/8/12 12:00	WSD
1,4-Dichlorobenzene	ND	0.10		ND	0.60	2	10/8/12 12:00	WSD
Dichlorodifluoromethane (Freon 12)	0.45	0.10		2.2	0.49	2	10/8/12 12:00	WSD
1,1-Dichloroethane	ND	0.10		ND	0.40	2	10/8/12 12:00	WSD
1,2-Dichloroethane	ND	0.10		ND	0.40	2	10/8/12 12:00	WSD
1,1-Dichloroethylene	ND	0.10		ND	0.40	2	10/8/12 12:00	WSD
cis-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	10/8/12 12:00	WSD
trans-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	10/8/12 12:00	WSD
1,2-Dichloropropane	ND	0.10		ND	0.46	2	10/8/12 12:00	WSD
cis-1,3-Dichloropropene	ND	0.10		ND	0.45	2	10/8/12 12:00	WSD
trans-1,3-Dichloropropene	ND	0.10		ND	0.45	2	10/8/12 12:00	WSD
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10		ND	0.70	2	10/8/12 12:00	WSD
1,4-Dioxane	ND	0.10		ND	0.36	2	10/8/12 12:00	WSD
Ethanol	ND	4.0		ND	7.5	2	10/8/12 12:00	WSD
Ethyl Acetate	ND	0.10		ND	0.36	2	10/8/12 12:00	WSD
Ethylbenzene	0.11	0.10		0.46	0.43	2	10/8/12 12:00	WSD
4-Ethyltoluene	ND	0.10		ND	0.49	2	10/8/12 12:00	WSD
Heptane	0.13	0.10		0.52	0.41	2	10/8/12 12:00	WSD
Hexachlorobutadiene	ND	0.10		ND	1.1	2	10/8/12 12:00	WSD

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ANALYTICAL RESULTS

Project Location: Cohoes, NY
Date Received: 10/5/2012
Field Sample #: Ambient Air 2
Sample ID: 12J0233-10
Sample Matrix: Ambient Air
Sampled: 10/4/2012 12:55

Sample Description/Location:
Sub Description/Location:
Canister ID: 1666
Canister Size: 6 liter
Flow Controller ID: 4227
Sample Type: 1 hr

Work Order: 12J0233
Initial Vacuum(in Hg): -29
Final Vacuum(in Hg): -4
Receipt Vacuum(in Hg): -4
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv Results	ppbv RL	Flag	ug/m3 Results	ug/m3 RL	Dilution	Date/Time Analyzed	Analyst
Hexane	ND	4.0		ND	14	2	10/8/12 12:00	WSD
2-Hexanone (MBK)	ND	0.10		ND	0.41	2	10/8/12 12:00	WSD
Isopropanol	ND	4.0		ND	9.8	2	10/8/12 12:00	WSD
Methyl tert-Butyl Ether (MTBE)	ND	0.10		ND	0.36	2	10/8/12 12:00	WSD
Methylene Chloride	ND	1.0		ND	3.5	2	10/8/12 12:00	WSD
4-Methyl-2-pentanone (MIBK)	ND	0.10		ND	0.41	2	10/8/12 12:00	WSD
Naphthalene	ND	0.10		ND	0.52	2	10/8/12 12:00	WSD
Propene	ND	4.0		ND	6.9	2	10/8/12 12:00	WSD
Styrene	ND	0.10		ND	0.43	2	10/8/12 12:00	WSD
1,1,2,2-Tetrachloroethane	ND	0.10		ND	0.69	2	10/8/12 12:00	WSD
Tetrachloroethylene	ND	0.10		ND	0.68	2	10/8/12 12:00	WSD
Tetrahydrofuran	ND	0.10		ND	0.29	2	10/8/12 12:00	WSD
Toluene	0.76	0.10		2.9	0.38	2	10/8/12 12:00	WSD
1,2,4-Trichlorobenzene	ND	0.20		ND	1.5	2	10/8/12 12:00	WSD
1,1,1-Trichloroethane	ND	0.10		ND	0.55	2	10/8/12 12:00	WSD
1,1,2-Trichloroethane	ND	0.10		ND	0.55	2	10/8/12 12:00	WSD
Trichloroethylene	ND	0.10		ND	0.54	2	10/8/12 12:00	WSD
Trichlorofluoromethane (Freon 11)	0.25	0.10		1.4	0.56	2	10/8/12 12:00	WSD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.10		ND	0.77	2	10/8/12 12:00	WSD
1,2,4-Trimethylbenzene	ND	0.10		ND	0.49	2	10/8/12 12:00	WSD
1,3,5-Trimethylbenzene	ND	0.10		ND	0.49	2	10/8/12 12:00	WSD
Vinyl Acetate	ND	0.20		ND	0.70	2	10/8/12 12:00	WSD
Vinyl Chloride	ND	0.10		ND	0.26	2	10/8/12 12:00	WSD
m&p-Xylene	0.33	0.20		1.4	0.87	2	10/8/12 12:00	WSD
o-Xylene	0.12	0.10		0.52	0.43	2	10/8/12 12:00	WSD

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	96.0	70-130	10/8/12 12:00

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ANALYTICAL RESULTS

Project Location: Cohoes, NY
Date Received: 10/5/2012
Field Sample #: SV-9
Sample ID: 12J0233-11
Sample Matrix: Soil Gas
Sampled: 10/4/2012 12:55

Sample Description/Location:
Sub Description/Location:
Canister ID: 1667
Canister Size: 6 liter
Flow Controller ID: 4225
Sample Type: 1 hr

Work Order: 12J0233
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): -4
Receipt Vacuum(in Hg): -4
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv Results	RL	Flag	ug/m3 Results	RL	Dilution	Date/Time Analyzed	Analyst
Acetone	ND	40		ND	95	20	10/6/12 11:26	WSD
Benzene	ND	1.0		ND	3.2	20	10/6/12 11:26	WSD
Benzyl chloride	ND	1.0		ND	5.2	20	10/6/12 11:26	WSD
Bromodichloromethane	ND	1.0		ND	6.7	20	10/6/12 11:26	WSD
Bromoform	ND	1.0		ND	10	20	10/6/12 11:26	WSD
Bromomethane	ND	1.0		ND	3.9	20	10/6/12 11:26	WSD
1,3-Butadiene	ND	1.0		ND	2.2	20	10/6/12 11:26	WSD
2-Butanone (MEK)	ND	40		ND	120	20	10/6/12 11:26	WSD
Carbon Disulfide	ND	10		ND	31	20	10/6/12 11:26	WSD
Carbon Tetrachloride	ND	1.0		ND	6.3	20	10/6/12 11:26	WSD
Chlorobenzene	ND	1.0		ND	4.6	20	10/6/12 11:26	WSD
Chloroethane	ND	1.0		ND	2.6	20	10/6/12 11:26	WSD
Chloroform	3.7	1.0		18	4.9	20	10/6/12 11:26	WSD
Chloromethane	ND	1.0		ND	2.1	20	10/6/12 11:26	WSD
Cyclohexane	ND	1.0		ND	3.4	20	10/6/12 11:26	WSD
Dibromochloromethane	ND	1.0		ND	8.5	20	10/6/12 11:26	WSD
1,2-Dibromoethane (EDB)	ND	1.0		ND	7.7	20	10/6/12 11:26	WSD
1,2-Dichlorobenzene	ND	1.0		ND	6.0	20	10/6/12 11:26	WSD
1,3-Dichlorobenzene	ND	1.0		ND	6.0	20	10/6/12 11:26	WSD
1,4-Dichlorobenzene	ND	1.0		ND	6.0	20	10/6/12 11:26	WSD
Dichlorodifluoromethane (Freon 12)	ND	1.0		ND	4.9	20	10/6/12 11:26	WSD
1,1-Dichloroethane	ND	1.0		ND	4.0	20	10/6/12 11:26	WSD
1,2-Dichloroethane	ND	1.0		ND	4.0	20	10/6/12 11:26	WSD
1,1-Dichloroethylene	ND	1.0		ND	4.0	20	10/6/12 11:26	WSD
cis-1,2-Dichloroethylene	64	1.0		250	4.0	20	10/6/12 11:26	WSD
trans-1,2-Dichloroethylene	ND	1.0		ND	4.0	20	10/6/12 11:26	WSD
1,2-Dichloropropane	ND	1.0		ND	4.6	20	10/6/12 11:26	WSD
cis-1,3-Dichloropropene	ND	1.0		ND	4.5	20	10/6/12 11:26	WSD
trans-1,3-Dichloropropene	ND	1.0		ND	4.5	20	10/6/12 11:26	WSD
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	1.0		ND	7.0	20	10/6/12 11:26	WSD
1,4-Dioxane	ND	1.0		ND	3.6	20	10/6/12 11:26	WSD
Ethanol	ND	40		ND	75	20	10/6/12 11:26	WSD
Ethyl Acetate	ND	1.0		ND	3.6	20	10/6/12 11:26	WSD
Ethylbenzene	ND	1.0		ND	4.3	20	10/6/12 11:26	WSD
4-Ethyltoluene	ND	1.0		ND	4.9	20	10/6/12 11:26	WSD
Heptane	ND	1.0		ND	4.1	20	10/6/12 11:26	WSD
Hexachlorobutadiene	ND	1.0		ND	11	20	10/6/12 11:26	WSD

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

ANALYTICAL RESULTS

Project Location: Cohoes, NY
Date Received: 10/5/2012
Field Sample #: SV-9
Sample ID: 12J0233-11
Sample Matrix: Soil Gas
Sampled: 10/4/2012 12:55

Sample Description/Location:
Sub Description/Location:
Canister ID: 1667
Canister Size: 6 liter
Flow Controller ID: 4225
Sample Type: 1 hr

Work Order: 12J0233
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): -4
Receipt Vacuum(in Hg): -4
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv Results	RL	Flag	ug/m3 Results	RL	Dilution	Date/Time Analyzed	Analyst
Hexane	ND	40		ND	140	20	10/6/12 11:26	WSD
2-Hexanone (MBK)	ND	1.0		ND	4.1	20	10/6/12 11:26	WSD
Isopropanol	ND	40		ND	98	20	10/6/12 11:26	WSD
Methyl tert-Butyl Ether (MTBE)	ND	1.0		ND	3.6	20	10/6/12 11:26	WSD
Methylene Chloride	ND	10		ND	35	20	10/6/12 11:26	WSD
4-Methyl-2-pentanone (MIBK)	ND	1.0		ND	4.1	20	10/6/12 11:26	WSD
Naphthalene	ND	1.0		ND	5.2	20	10/6/12 11:26	WSD
Propene	ND	40		ND	69	20	10/6/12 11:26	WSD
Styrene	ND	1.0		ND	4.3	20	10/6/12 11:26	WSD
1,1,2,2-Tetrachloroethane	ND	1.0		ND	6.9	20	10/6/12 11:26	WSD
Tetrachloroethylene	8400	40		57000	270	800	10/8/12 7:53	WSD
Tetrahydrofuran	ND	1.0		ND	2.9	20	10/6/12 11:26	WSD
Toluene	ND	1.0		ND	3.8	20	10/6/12 11:26	WSD
1,2,4-Trichlorobenzene	ND	2.0		ND	15	20	10/6/12 11:26	WSD
1,1,1-Trichloroethane	2.4	1.0		13	5.5	20	10/6/12 11:26	WSD
1,1,2-Trichloroethane	ND	1.0		ND	5.5	20	10/6/12 11:26	WSD
Trichloroethylene	290	1.0		1600	5.4	20	10/6/12 11:26	WSD
Trichlorofluoromethane (Freon 11)	45	1.0		260	5.6	20	10/6/12 11:26	WSD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0		ND	7.7	20	10/6/12 11:26	WSD
1,2,4-Trimethylbenzene	ND	1.0		ND	4.9	20	10/6/12 11:26	WSD
1,3,5-Trimethylbenzene	ND	1.0		ND	4.9	20	10/6/12 11:26	WSD
Vinyl Acetate	ND	2.0		ND	7.0	20	10/6/12 11:26	WSD
Vinyl Chloride	ND	1.0		ND	2.6	20	10/6/12 11:26	WSD
m&p-Xylene	ND	2.0		ND	8.7	20	10/6/12 11:26	WSD
o-Xylene	ND	1.0		ND	4.3	20	10/6/12 11:26	WSD

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	95.5	70-130	10/8/12 7:53
4-Bromofluorobenzene (1)	96.3	70-130	10/6/12 11:26

Data Validation Services

120 Cobble Creek Road P.O. Box 208
North Creek, NY 12853

Phone 518-251-4429
harry@frontiernet.net

January 24, 2013

Stefan Bagnato
ARCADIS, Inc.
855 Rt 146 Suite 204
Clifton Park, NY 12065

RE: Validation of the NYSDEC S&S Cleaners and Dyers Site Analytical Data Packages
Spectrum Analytical SDG Nos. L2612, L2631, and L2641

Dear Mr. Bagnato:

Review has been completed for the data packages generated by Spectrum Analytical, Inc that pertain to samples collected between 12/19/12 and 12/27/12 at the S&S Cleaners site. Eight soil samples were analyzed for TCL volatiles, TCL semivolatiles, TCL pesticides, TCL PCBS, and TAL metals by USEPA SW846 methods 8260B, 8270C, 8081A, 8082, 6010B, and 7470. Twenty-six soil samples, a soil field duplicate, and two aqueous samples were analyzed for TCL volatiles by 8260B. Trip blanks were also processed. Tentatively Identified Compounds were reported for some of the samples, but are not required for the project and not validated.

The data packages submitted by the laboratory contain full deliverables for validation, but this usability report is generated from review of the QC summary form information, with full review of sample raw data and limited review of associated QC raw data. Full validation has not been performed. However, the reported QC summary forms and sample raw data have been reviewed for application of validation qualifiers, with guidance from the USEPA national and regional validation documents, and in consideration for the specific requirements of the analytical methodology. The following items were reviewed:

The following items were reviewed:

* Data Completeness
* Case Narrative
* Custody Documentation
* Holding Times
* Surrogate and Internal Standard Recoveries
* Method and Trip Blanks
* Matrix Spikes/Matrix Spike Duplicates
* Blind Field Duplicate
* Laboratory Control Sample (LCS)
* Instrumental Tunes
* Calibration Standards
* Method Compliance
* Sample Result Verification

The data review includes evaluation of the specific items noted in The NYS DER-10 Appendix B section 2.0 (c).

The items listed above that show deficiencies are discussed within the text of this narrative. The laboratory QC forms illustrating the excursions can be found within the laboratory data package.

In summary, most results for target analytes are usable either as reported or with edit to non-detection. However, the results for one volatile target analyte are not usable due to very poor instrument performance.

Copies of the client sample identifications are attached to this text. Also attached are excel files, with recommended qualifiers applied in red.

Chain-of-Custody

One of the custody forms associated with the samples collected 12/10/12 shows an uninitialed edit to the receive date.

Blind Field Duplicates

The field duplicate correlations for SB-12(10'-11') are acceptable, with the exception of those for trichloroethene (>±CRDL) and tetrachloroethene (110%RPD). Results for those two compounds in the parent sample and the duplicate are qualified as estimated in value.

Volatile Analyses by EPA8260B

The results for 1,4-dioxane in the samples are not usable due to poor instrument performance that is inherent with the methodology.

The results for analytes reported with the "E" laboratory flag are derived from the dilution analyses of the samples, thus reflecting responses within the established instrument calibration ranges. The acetone concentrations in the initial and dilution analyses of SB-14(0-1) varied greatly (780 "E" ug/L and 130 ug/L). A non-homogeneous matrix is suspected, and that sample acetone result is qualified as estimated.

Matrix spikes of SB-15(5-6) show recoveries and correlations for all analytes that are within laboratory acceptance ranges. The matrix spikes of SB-19(11-12) also show acceptable accuracy and precision, with the exception of the elevated recoveries of tetrachloroethene (147% and 156%). The result for that compound in the parent sample has been qualified as estimated.

Holding time requirements were met, and instrument tunes meet fragmentation requirements. Surrogate and internal standard recoveries are within laboratory acceptance ranges.

Due to contamination in the associated trip blank, detections of chloroform that are flagged as "B" in the samples collected 12/19/12 are considered external contamination, and edited to non-detection.

The following results are qualified as estimated due to low responses in the associated calibration standards:

- acetone and 2-butanone (low RRFs) in all samples
- tetrachloroethene (26%D) values derived from the medium level analyses
- dichlorodifluoromethane, chloromethane, vinyl chloride, bromomethane, chloroethane, and 1,1,2-1,2,2-trichlorotrifluoroethane (24%D and 47%D) in MW-9(122712)
- dichlorodifluoromethane and carbon disulfide (25%D and 22%D) in theTrip Blank reported in SDG L2641

Some of the samples were reported at lesser weights, and those reporting limits are therefore proportionally elevated.

TCL Semivolatiles by EPA 8270C

Matrix spikes of SB-15(5-6) show recoveries and correlations for all analytes that are within laboratory acceptance ranges.

Surrogate recoveries and internal standard responses are within required limits. LCS recoveries meet validation guidelines. Blanks show no contamination.

Calibration standards showed acceptable responses, with the exceptions of those for 2,4-dinitro-phenol (26%RSD and/or 24%D) and atrazine (low RRF) in standards associated with all samples, and hexachlorocyclopentadiene (23%D) in the calibration standards associated with the samples collected 12/19/12. Results of those three compounds are qualified as estimated in the associated samples.

TCL Pesticides by 8081A and TCL PCBs by EPA 8082

Surrogate recoveries are acceptable. LCSs show recoveries and duplicate correlations for pesticides and Aroclors 1016 and 1260 that are within laboratory acceptance ranges. Blanks show no contamination.

Matrix spikes of Aroclors 1016 and 1260 in SB-15(5-6) show good accuracy and precision.

The pesticide matrix spikes of SB-15(5-6) show low recoveries for 4,4'-DDT and g-chlordane (58% to 61%). Results for those two compounds in the parent sample are therefore qualified as estimated. Four additional compounds produced low recoveries on only one of the analytical columns. No additional qualification is indicated.

TAL Metals Analyses by EPA 6010B, 7470, and 7471

The matrix spike and duplicate evaluations (MS/DUP) on SB-15(5-6) show acceptable recoveries and duplicate correlations, with the exception of the recovery for antimony (58%). Results for antimony in the samples have been qualified as estimated.

The ICP serial dilution evaluation for SB-15(5-6) shows an outlying correlation for sodium (greater than 50XIDL in the undiluted and not detected in the diluted). Detected results for that element in the samples are therefore qualified as estimated in value.

No low level standards near the reporting limit were processed, although it is a requirement of the NYS DER-10. Therefore, accuracy at and near the reporting limit has not been ascertained. No qualification to the data is made, but the laboratory should implement this evaluation.

Method blanks show no detections above the reporting limit.

Please do not hesitate to contact me if questions or comments arise during your review of this report.

Very truly yours,

Judy Harry

Judy Harry

VALIDATION DATA QUALIFIER DEFINITIONS

U	The analyte was analyzed for, but was not detected above the level of the associated reported quantitation limit.
J	The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.
UJ	The analyte was not detected. The associated reported quantitation limit is an estimate and may be inaccurate or imprecise.
NJ	The detection is tentative in identification and estimated in value. Although there is presumptive evidence of the analyte, the result should be used with caution as a potential false positive and/or elevated quantitative value.
R	The data are unusable. The analyte may or may not be present.
EMPC	The results do not meet all criteria for a confirmed identification. The quantitative value represents the Estimated Maximum Possible Concentration of the analyte in the sample.

CLIENT and LABORATORY SAMPLE IDs

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

New York State Department of Environmental Conservation
Sample Identification and Analytical Requirements Summary

Project Name : S&S Dry Cleaners & Dyers -- 0266396.0000 **SDG :** L2612

Customer Sample ID	Laboratory Sample ID	Analytical Requirements				
		MSVOA Method #	MSSEMI Method #	GC* Method #	ME	Other
SB-12(6-7)	L2612-01	SW8260_LOW_S				
SB-12(8-9)	L2612-02	SW8260_LOW_S				
SB-12(8-9)	L2612-02	SW8260_MED_S				
SB-12(9-10)	L2612-03	SW8260_LOW_S				
SB-12(10-11)	L2612-04	SW8260_LOW_S	SW8270_S	SW8081_S	SW6010_S	
SB-12(10-11)	L2612-04			SW8082_S	SW7471	
SB-13(7-8)	L2612-05	SW8260_LOW_S	SW8270_S	SW8081_S	SW6010_S	
SB-13(7-8)	L2612-05			SW8082_S	SW7471	
SB-13(5-6)	L2612-06	SW8260_LOW_S				
SB-13(8-9)	L2612-07	SW8260_LOW_S				
SB-13(9-10)	L2612-08	SW8260_LOW_S				
SB-13(9-10)	L2612-08	SW8260_MED_S				
SB-13(10-11)	L2612-09	SW8260_LOW_S				
SB-13(10-11)	L2612-09	SW8260_MED_S				
DUP-A	L2612-10	SW8260_LOW_S				
DUP-A	L2612-10	SW8260_MED_S				
SB-14(0-1)	L2612-11	SW8260_LOW_S				
SB-14(2-3)	L2612-12	SW8260_LOW_S				
SB-14(5-6)	L2612-13	SW8260_LOW_S	SW8270_S	SW8081_S	SW6010_S	
SB-14(5-6)	L2612-13			SW8082_S	SW7471	
SB-14(7-8)	L2612-14	SW8260_LOW_S				
SB-14(8-9)	L2612-15	SW8260_LOW_S				
MW-4(121912)	L2612-16	SW8260_W				
TRIP BLANK	L2612-17	SW8260_W				

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

New York State Department of Environmental Conservation
Sample Identification and Analytical Requirements Summary

Project Name : S&S Dry Cleaners & Dyers – 0266396.0000 **SDG :** L2631

Customer Sample ID	Laboratory Sample ID	Analytical Requirements				
		MSVOA Method #	MSSEMI Method #	GC* Method #	ME	Other
SB-15(5-6)	L2631-01	SW8260_LOW_S	SW8270_S	SW8081_S	SW6010_S	
SB-15(5-6)	L2631-01			SW8082_S	SW7471	
SB-15(7-8)	L2631-02	SW8260_LOW_S				
SB-15(9-10)	L2631-03	SW8260_LOW_S				
SB-16(5-6)	L2631-04	SW8260_LOW_S				
SB-16(6-7)	L2631-05	SW8260_LOW_S				
SB-16(8-9)	L2631-06	SW8260_LOW_S				
SB-16(9-10)	L2631-07	SW8260_LOW_S	SW8270_S	SW8081_S	SW6010_S	
SB-16(9-10)	L2631-07			SW8082_S	SW7471	
SB-16(10-11)	L2631-08	SW8260_LOW_S				
SB-17(1-2)	L2631-09	SW8260_LOW_S				
SB-17(5-6)	L2631-10	SW8260_LOW_S				
SB-17(6-7)	L2631-11	SW8260_LOW_S				
SB-17(7-8)	L2631-12	SW8260_LOW_S				
SB-17(8-9)	L2631-13	SW8260_LOW_S	SW8270_S	SW8081_S	SW6010_S	
SB-17(8-9)	L2631-13			SW8082_S	SW7471	
SB-18(1-2)	L2631-14	SW8260_LOW_S				
SB-18(6-7)	L2631-15	SW8260_LOW_S	SW8270_S	SW8081_S	SW6010_S	
SB-18(6-7)	L2631-15			SW8082_S	SW7471	
SB-18(8-9)	L2631-16	SW8260_LOW_S				
SB-18(11-12)	L2631-17	SW8260_LOW_S				
SB-19(2-3)	L2631-18	SW8260_LOW_S				
SB-19(7-8)	L2631-19	SW8260_LOW_S	SW8270_S	SW8081_S	SW6010_S	
SB-19(7-8)	L2631-19			SW8082_S	SW7471	
SB-19(9-10)	L2631-20	SW8260_LOW_S				

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

New York State Department of Environmental Conservation
Sample Identification and Analytical Requirements Summary

Project Name : S&S Dry Cleaners & Dyers -- 0266396.0000 **SDG :** L2641

Customer Sample ID	Laboratory Sample ID	Analytical Requirements				
		MSVOA Method #	MSSEMI Method #	GC* Method #	ME	Other
MW-9 (122712)	L2641-01	SW8260_W				
TRIP BLANK	L2641-02	SW8260_W				

Data Validation Services

120 Cobble Creek Road P.O. Box 208
North Creek, NY 12853

Phone 518-251-4429
harry@frontiernet.net

February 26, 2013; Revised March 1, 2013

Stefan Bagnato
ARCADIS, Inc.
855 Rt 146 Suite 204
Clifton Park, NY 12065

RE: Validation of the NYSDEC S&S Cleaners and Dyers Site Analytical Data Packages
con-test SDG No. 13A0288

Dear Mr. Bagnato:

Review has been completed for the data package generated by con-test that pertains to samples collected 01/08/13 and 01/09/13 at the S&S Cleaners site. Six 6 L summa canisters and a field duplicate were analyzed for volatiles analytes for USEPA method TO-15.

The data packages submitted by the laboratory contain full deliverables for validation, but this usability report is generated from review of the QC summary form information, with full review of sample raw data and limited review of associated QC raw data. Full validation has not been performed. However, the reported QC summary forms and sample raw data have been reviewed for application of validation qualifiers, with guidance from the USEPA Region 2 validation SOP HW-31, and in consideration for the specific requirements of the analytical methodology. The following items were reviewed:

* Data Completeness
* Case Narrative
* Custody Documentation
* Holding Times
* Surrogate Recoveries
* Blind Field Duplicate Correlations
* Internal Standard Recoveries
* Method and Canister Blanks
* Laboratory Control Samples (LCSs)
* Instrumental Tunes
* Initial and Continuing Calibration Standards
* Method Compliance
* Sample Result Verification

The data review includes evaluation of the specific items noted in The NYS DER-10 Appendix B section 2.0 (c). The items listed above that show deficiencies are discussed within the text of this narrative. The laboratory QC forms illustrating the excursions can be found within the laboratory data package.

In summary, sample results for target analytes are usable either as reported or with minor qualification or edit to non-detection. However, the field duplicate correlation indicates outlying precision.

Copies of the client sample identifications and laboratory case narrative are attached to this text. Also included are client EDD files, with recommended qualifiers applied in red.

Volatile Analyses by EPA TO-15

The following results have been qualified as tentative in identification and estimated in value due to interferences in the mass spectra:

- chloromethane in 8W-SS-1 and SW-BA-1
- styrene in SW-BA-1, SV-15, and SV-12

The result for 2-hexanone in SV-13 has been edited to non-detection at an elevated reporting limit due to poor mass spectral quality.

The blind field duplicate correlation of 8W-SS-1 shows outlying correlations exceeding the action limit of ±CRDL for the following analytes, with values for two of them exceeding an order of magnitude: benzene, chloromethane, chloroform, ethanol, ethylbenzene, tetarachloroethene, and toluene. With the exception of tetrachloroethene, the parent sample values were higher than those of the duplicate.

Holding times and instrument tunes meet requirements. Surrogate and internal standard recoveries are acceptable.

Batch clean canister blanks show no contamination above the reporting limit. Because the laboratory did not report detected values below the reporting limit (RL or CRDL), low level detections of methylene chloride and acetone present in the method blanks were not shown on the blank report forms. The following associated field sample detections are within the range for consideration as external contamination, and have been edited to reflect non-detection at elevated reporting limits corresponding to the originally reported concentrations:

- methylene chloride in 8W-BA-1 and 8W-DUP
- acetone in 8W-SS-1, 8W-DUP, SV-15, and SV-13

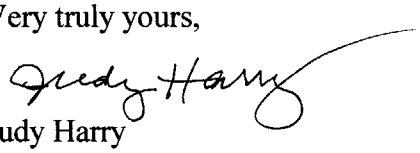
Initial and continuing calibration standard responses were acceptable, with all response factors (RRFs) above 0.05, linearity within the 30%RSD limit, and continuing responses not above 30%D, with the following exceptions, results for which are qualified as estimated in the indicated associated samples:

- naphthalene (39%D and 38%D) in all samples
- acetone (38%RSD and/or 34%D) in all samples
- ethanol (32%RSD) detections in all samples

LCS recoveries are within recommended limits, with the exception of elevated recoveries for an analyte not detected in the samples; no qualification is indicated.

Please do not hesitate to contact me if questions or comments arise during your review of this report.

Very truly yours,



Judy Harry

CLIENT and LABORATORY SAMPLE IDs
and
LABORATORY CASE NARRATIVE

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

Arcadis US, Inc. - Clifton Park-NY
855 Route 146, Suite 210
Clifton Park, NY 12065
ATTN: Stefan Bagnato

REPORT DATE: 1/22/2013

PURCHASE ORDER NUMBER: 00266396

PROJECT NUMBER: 00266396

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 13A0288

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

PROJECT LOCATION: Cohoes, NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
8W-SS-1	13A0288-01	Soil Gas		EPA TO-15	
8W-DUP	13A0288-02	Soil Gas		EPA TO-15	
8W-BA-1	13A0288-03	Indoor air		EPA TO-15	
AA-010913	13A0288-04	Ambient Air		EPA TO-15	
SV-15	13A0288-05	Soil Gas		EPA TO-15	
SV-13	13A0288-06	Soil Gas		EPA TO-15	
SV-12	13A0288-07	Soil Gas		EPA TO-15	

con-test®
ANALYTICAL LABORATORY

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

CASE NARRATIVE SUMMARY

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

EPA TO-15

Qualifications:

Laboratory fortified blank /laboratory control sample recovery outside of control limits. Data validation is not affected since all results are "not detected" for all samples in this batch for this compound and bias is on the high side.

Analyte & Samples(s) Qualified:

Chloroethane, Isopropanol

B066164-BS1, B066165-BS1

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

Analyte & Samples(s) Qualified:

Naphthalene

13A0288-01[8W-SS-1], 13A0288-02[8W-DUP], 13A0288-03[8W-BA-1], 13A0288-04[AA-010913], 13A0288-05[SV-15], 13A0288-06[SV-13], 13A0288-07[SV-12], B066164-BLK1, B066164-BS1, B066165-BLK1, B066165-BS1, S003698-CCV1, S003699-CCV1

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

Analyte & Samples(s) Qualified:

Acetone, Isopropanol

13A0288-01[8W-SS-1], 13A0288-02[8W-DUP], 13A0288-05[SV-15], 13A0288-06[SV-13], 13A0288-07[SV-12], B066165-BS1, S003699-CCV1, B066164-BS1, S003698-CCV1

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Michael A. Erickson
Laboratory Director

Data Validation Services

120 Cobble Creek Road P.O. Box 208
North Creek, NY 12853

Phone 518-251-4429
harry@frontiernet.net

July 15, 2013

Stefan Bagnato
ARCADIS, Inc.
855 Rt 146 Suite 204
Clifton Park, NY 12065

RE: Validation of the NYSDEC S&S Cleaners Site Analytical Data Packages
Spectrum Analytical SDG Nos. M0760 and M0791

Dear Mr. Bagnato:

Review has been completed for the data packages generated by Spectrum Analytical, Inc that pertain to samples collected 05/15/13 and 05/20/13 at the S&S Cleaners site. Twelve soil samples were analyzed for TCL volatiles by USEPA SW846 method 8260B

The data packages submitted by the laboratory contain full deliverables for validation, but this usability report is generated from review of the QC summary form information, with full review of sample raw data and limited review of associated QC raw data. Full validation has not been performed. However, the reported QC summary forms and sample raw data have been reviewed for application of validation qualifiers, with guidance from the USEPA national and regional validation documents, and in consideration for the specific requirements of the analytical methodology. The following items were reviewed:

* Data Completeness
* Case Narrative
* Custody Documentation
* Holding Times
* Surrogate and Internal Standard Recoveries
* Method Blanks
* Laboratory Control Sample (LCS)
* Instrumental Tunes
* Calibration Standards
* Method Compliance
* Sample Result Verification

The data review includes evaluation of the specific items noted in The NYS DER-10 Appendix B section 2.0 (c).

The items listed above that show deficiencies are discussed within the text of this narrative. The laboratory QC forms illustrating the excursions can be found within the laboratory data packages.

In summary, most results for target analytes are usable either as reported or with minor qualification as estimated in value. However, the results for one volatile target analyte are not usable due to very poor instrument performance.

Copies of the client sample identification and the laboratory case narratives are attached to this text, and should be reviewed in conjunction with this report. Also attached are client EDD files, with recommended qualifiers/edits applied in red ink.

Volatile Analyses by EPA8260B

The results for 1,4-dioxane in the samples are not usable due to poor instrument performance that is inherent with the methodology.

The result for vinyl chloride in CS-W2 is tentative in identification and qualified as estimated due to poor mass spectral quality.

Samples CS-W2 and CS-B1 show low recoveries for one of the surrogate standards (78% and 81%, below the required limit of 88%), and therefore results for all analytes in those samples have been qualified as estimated in value. Although low recoveries are normally a result of sample matrix effect, in this case the associated preparation blank also shows a low recovery of 79% for that surrogate, indicating non-compliant instrument processing. The samples should have been reanalyzed; the laboratory statement that reanalysis was not required is inaccurate.

Holding time requirements were met, and instrument tunes meet fragmentation requirements. Internal standard recoveries are within required ranges.

No sample matrix spikes were requested or performed. LCS recoveries and correlations are acceptable.

The following results are qualified as estimated due to low responses in the associated calibration standards:

- acetone and 2-butanone (low RRFs), and styrene and 1,2-dibromo-3-chloropropane (25%D and 22%D) in CS-W1, CS-W2, and CS-B1
- 2-butanone (low RRF) and 4-methyl-2-pentanone (24%D) in CS-N1, CS-N2, CS-S1, and CS-S2
- 2-butanone (low RRF) and acetone (23%D) in the samples reported in SDG M0791

Please do not hesitate to contact me if questions or comments arise during your review of this report.

Very truly yours,

Judy Harry

VALIDATION DATA QUALIFIER DEFINITIONS

U	The analyte was analyzed for, but was not detected above the level of the associated reported quantitation limit.
J	The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.
UJ	The analyte was not detected. The associated reported quantitation limit is an estimate and may be inaccurate or imprecise.
NJ	The detection is tentative in identification and estimated in value. Although there is presumptive evidence of the analyte, the result should be used with caution as a potential false positive and/or elevated quantitative value.
R	The data are unusable. The analyte may or may not be present.
EMPC	The results do not meet all criteria for a confirmed identification. The quantitative value represents the Estimated Maximum Possible Concentration of the analyte in the sample.

CLIENT and LABORATORY SAMPLE IDs and LABORATORY CASE NARRATIVES

Report Date:
04-Jun-13 14:26

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

☑ Final Report
☐ Re-Issued Report
☐ Revised Report

Laboratory Report

ARCADIS U.S., Inc.
855 Route 146, Suite 210
Clifton Park, NY 12065

Work Order: M0760
Project : S&S Dry Cleaners & Dyers
Project #: 0266396.0000

Attn: Andy Vitolins

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
M0760-01	CS-W1	Soil	15-May-13 08:50	16-May-13 10:30
M0760-02	CS-W2	Soil	15-May-13 08:52	16-May-13 10:30
M0760-03	CS-B1	Soil	15-May-13 08:53	16-May-13 10:30
M0760-04	CS-S1	Soil	15-May-13 08:55	16-May-13 10:30
M0760-05	CS-S2	Soil	15-May-13 09:00	16-May-13 10:30
M0760-06	CS-N1	Soil	15-May-13 09:03	16-May-13 10:30
M0760-07	CS-N2	Soil	15-May-13 14:00	16-May-13 10:30

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. The results relate only to the samples(s) as received. This report may not be reproduced, except in full, without written approval from Spectrum Analytical.

All applicable NELAC or USEPA CLP requirments have been meet.

Spectrum Analytical (Rhode Island) is accredited under the National Environmental Laboratory Approval Program (NELAP) and DoD Environmental Laboratory Accreditation Program (ELAP), holds Organic and Inorganic contracts under the USEPA CLP Program and is certified under several states. The current list of our laboratory approvals and certifications is available on the Certifications page on our web site at www.spectrum-analytical.com.

Please contact the Laboratory or Technical Director at 401-732-3400 with any questions regarding the data contained in the laboratory report.

Department of Defense	N/A
Connecticut	PH-0153
Delaware	N/A
Florida	E87664
Maine	2007037
Massachusetts	M-RI907
New Hampshire	2631
New Jersey	RI001
New York	11522
North Carolina	581
Rhode Island	LAI00301
USDA	P330-08-00023
USEPA - ISM	EP-W-09-039
USEPA - SOM	EP-W-11-033

LABORATORY ACCREDITATION BUREAU ACCREDITED
Certificate # L2247 Testing

Authorized by:

Yihai Ding
Laboratory Director

Report Date:
05-Jun-13 15:50

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

☑ Final Report
☐ Re-Issued Report
☐ Revised Report

Laboratory Report

ARCADIS U.S., Inc.
855 Route 146, Suite 210
Clifton Park, NY 12065

Work Order: M0791
Project : S&S Dry Cleaners & Dyers
Project #: 0266396.0000

Attn: Andy Vitolins

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
M0791-01	CS-B2	Soil	20-May-13 14:10	21-May-13 10:30
M0791-02	CS-B3	Soil	20-May-13 14:15	21-May-13 10:30
M0791-03	CS-E1	Soil	20-May-13 14:25	21-May-13 10:30
M0791-04	CS-S3	Soil	20-May-13 14:35	21-May-13 10:30
M0791-05	CS-N3	Soil	20-May-13 14:40	21-May-13 10:30

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Please contact the Laboratory or Technical Director at 401-732-3400 with any questions regarding the data contained in the laboratory report.

Department of Defense	N/A
Connecticut	PH-0153
Delaware	N/A
Florida	E87664
Maine	2007037
Massachusetts	M-RI907
New Hampshire	2631
New Jersey	RI001
New York	11522
North Carolina	581
Rhode Island	LAI00301
USDA	P330-08-00023
USEPA - ISM	EP-W-09-039
USEPA - SOM	EP-W-11-033

LABORATORY ACCREDITATION BUREAU ACCREDITED
Certificate # L2247 Testing

Authorized by:

Yihai Ding
Laboratory Director

REPORT NARRATIVE

Spectrum Analytical, Inc. Featuring Hanibal Technology, RI Division.

Client : ARCADIS U.S., Inc.

Project: S&S Dry Cleaners & Dyers

Laboratory Workorder / SDG #: M0760

SW846 8260C, VOC by GC-MS

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code: SW846 8260C

IV. PREPARATION

Soil Samples were prepared following procedures in laboratory test code: SW5030B
Soil Samples were prepared following procedures in laboratory test code: SW5035

V. INSTRUMENTATION

The following instrumentation was used

Instrument Code: V10
Instrument Type: GCMS-VOA
Description: HP7890A
Manufacturer: Agilent
Model: 7890A / 5975C
GC Column used: 30 m X 0.25 mm ID [1.40 um thickness] DB-624 capillary column.

Instrument Code: V5
Instrument Type: GCMS-VOA
Description: HP6890 / HP6890
Manufacturer: Hewlett-Packard
Model: 6890 / 6890
GC Column used: 30 m X 0.25 mm ID [1.40 um thickness] DB-624 capillary column.

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

Surrogate standard percent recoveries were within the QC limits with the following exceptions. Please note that the acceptance criteria allow one surrogate recovery outside of the QC limits per fraction.

CS-W2 (M0760-02A), recovery is below criteria for 1,2-Dichloroethane-d4 at 78% with criteria of (88-110).

CS-B1 (M0760-03A), recovery is below criteria for 1,2-Dichloroethane-d4 at 81% with criteria of (88-110).

(MB-71725), recovery is below criteria for 1,2-Dichloroethane-d4 at 79% with criteria of (88-110).

D. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits.

Replicate RPDs were within the advisory QC limits.

2. **Matrix Spike / Matrix Spike Duplicate (MS/MSD):**

No client-requested MS/MSD analyses were included in this SDG.

E. Internal Standards:

Internal standard peak areas were within the QC limits.

F. Dilutions:

No sample in this SDG required analysis at dilution.

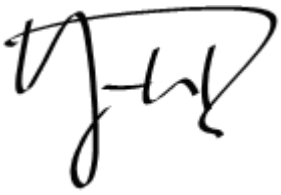
G. Samples:

No other unusual occurrences were noted during sample analysis.

H. Manual Integration

No manual integrations were performed on any sample or standard.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.



Signed:_____ _____

Date:_____6/4/2013_____

REPORT NARRATIVE

Spectrum Analytical, Inc. Featuring Hanibal Technology, RI Division.

Client : ARCADIS U.S., Inc.

Project: S&S Dry Cleaners & Dyers

Laboratory Workorder / SDG #: M0791

SW846 8260C, VOC by GC-MS

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code: SW846 8260C

IV. PREPARATION

Soil Samples were prepared following procedures in laboratory test code: SW5035

V. INSTRUMENTATION

The following instrumentation was used

Instrument Code: V5
Instrument Type: GCMS-VOA

Description: HP6890 / HP6890
Manufacturer: Hewlett-Packard
Model: 6890 / 6890

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

Surrogate standard percent recoveries were within the QC limits.

D. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits.

Replicate RPDs were within the advisory QC limits.

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

No client-requested MS/MSD analyses were included in this SDG.

E. Internal Standards:

Internal standard peak areas were within the QC limits.

F. Dilutions:

All samples in this SDG were analyzed at medium level due to high level of target compound(s).

The following samples were analyzed at dilution in addition to the medium level analysis:

CS-B3 (M0791-02A) : Dilution Factor: 10
CS-E1 (M0791-03A) : Dilution Factor: 5

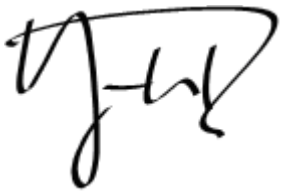
G. Samples:

No other unusual occurrences were noted during sample analysis.

H. Manual Integration

No manual integrations were performed on any sample or standard.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.



Signed:_____ _____

Date:_____6/5/2013_____

Data Validation Services

120 Cobble Creek Road P.O. Box 208
North Creek, NY 12853

Phone 518-251-4429
harry@frontiernet.net

November 23, 2013

Stefan Bagnato
ARCADIS, Inc.
855 Rt 146 Suite 204
Clifton Park, NY 12065

RE: Validation of the NYSDEC S&S Cleaners Site Analytical Data Packages
Spectrum Analytical SDG Nos. M1581 and M1770

Dear Mr. Bagnato:

Review has been completed for the data packages generated by Spectrum Analytical, Inc that pertain to samples collected 08/28/13 and 09/18/13 at the S&S Cleaners site. Three soil samples and a field duplicate were analyzed for TCL volatiles by USEPA SW846 method 8260B

The data packages submitted by the laboratory contain full deliverables for validation, but this usability report is generated from review of the QC summary form information, with full review of sample raw data and limited review of associated QC raw data. The reported QC summary forms and sample raw data have been reviewed for application of validation qualifiers, with guidance from the USEPA national and regional validation documents, and in consideration for the specific requirements of the analytical methodology. The following items were reviewed:

* Data Completeness
* Case Narrative
* Custody Documentation
* Holding Times
* Surrogate and Internal Standard Recoveries
* Method Blanks
* Laboratory Control Sample (LCS)
* Blind Field Duplicate Correlations
* Instrumental Tunes
* Calibration Standards
* Method Compliance
* Sample Result Verification

The data review includes evaluation of the specific items noted in The NYS DER-10 Appendix B section 2.0 (c). The items listed above that show deficiencies are discussed within the text of this narrative. The laboratory QC forms illustrating the excursions can be found within the laboratory data package.

In summary, most results for target analytes are usable either as reported or with qualification as estimated in value. However, the results for one volatile target analyte are not usable due to very poor instrument performance inherent in the methodology. No project matrix spike accuracy and precision evaluations were requested or performed, and the effect on the matrix on analyte recoveries is therefore not determined.

Copies of the client sample identification and the laboratory case narrative are attached to this text, and should be reviewed in conjunction with this report. Also attached are EDD files, with recommended qualifiers/edits applied in red ink.

Chain-of-Custody

The custody forms do not have a field for the relinquish date and time entries.

Volatile Analyses by EPA8260B

The results for 1,4-dioxane in the samples are not usable due to poor instrument performance that is inherent with the methodology.

Correlations for the blind field duplicate evaluation of MW-10B-091813 were within validation guidelines, with the exception of that for carbon disulfide (>±CRDL). The results for that compound in the parent sample and its duplicate are qualified as estimated.

Holding time requirements were met, and instrument tunes meet fragmentation requirements. Surrogate and internal standard recoveries are within required ranges.

The following results are qualified as estimated due to low responses in the associated calibration standards:

- 2-butanone (low RRFs) in all samples
- acetone (low RRFs), 1,1,2-1,2,2-trichlorotrifluoroethane *36%D) in the Trip Blank
- bromomethane (27%D), bromoform, trans-1,3-dichloropropane, dibromodichloromethane, 1,2-dibromo-3-chloropropane, 1,2,4-trichlorobenzene, and 1,2,3-trichlorobenene (20%RSD to 28%RSD) in MW-12-082813
- 1,1,2,2-tetrachloroethane, 1,2-dibromo-3-choropropane, and methyl acetate (22%D to 33%D) in MW-10B-091813, MW-11B-091813, and DUP_091813

Please do not hesitate to contact me if questions or comments arise during your review of this report.

Very truly yours,

Judy Harry

VALIDATION DATA QUALIFIER DEFINITIONS

U	The analyte was analyzed for, but was not detected above the level of the associated reported quantitation limit.
J	The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.
UJ	The analyte was not detected. The associated reported quantitation limit is an estimate and may be inaccurate or imprecise.
NJ	The detection is tentative in identification and estimated in value. Although there is presumptive evidence of the analyte, the result should be used with caution as a potential false positive and/or elevated quantitative value.
R	The data are unusable. The analyte may or may not be present.
EMPC	The results do not meet all criteria for a confirmed identification. The quantitative value represents the Estimated Maximum Possible Concentration of the analyte in the sample.

CLIENT and LABORATORY SAMPLE IDs

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

New York State Department of Environmental Conservation
Sample Identification and Analytical Requirements Summary

Project Name : S&S Dry Cleaners & Dyers – 0266396.0000 **SDG :** M1581

Customer Sample ID	Laboratory Sample ID	Analytical Requirements				
		MSVOA Method #	MSSEMI Method #	GC* Method #	ME	Other
MW-12-082813	M1581-01	SW8260_W				
TRIP BLANK_082813	M1581-02	SW8260_W				

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

New York State Department of Environmental Conservation
Sample Identification and Analytical Requirements Summary

Project Name : S&S Dry Cleaners & Dyers – 0266396.0000 **SDG :** M1770

Customer Sample ID	Laboratory Sample ID	Analytical Requirements				
		MSVOA Method #	MSSEMI Method #	GC* Method #	ME	Other
MW-10B_091813	M1770-01	SW8260_W				
MW-11B_091813	M1770-02	SW8260_W				
DUP_091813	M1770-03	SW8260_W				

Data Validation Services

120 Cobble Creek Road P.O. Box 208
North Creek, NY 12853

Phone 518-251-4429
harry@frontiernet.net

January 23, 2014

Stefan Bagnato
ARCADIS, Inc.
855 Rt 146 Suite 204
Clifton Park, NY 12065

RE: Validation of the NYSDEC S&S Cleaners Site Analytical Data Packages
Spectrum Analytical SDG No. M2225

Dear Mr. Bagnato:

Review has been completed for the data package generated by Spectrum Analytical, Inc that pertains to samples collected between 11/11/13 and11/13/13 at the S&S Cleaners site. Eleven aqueous samples and a field duplicate were analyzed for TCL volatiles by USEPA SW846 method 8260B

The data packages submitted by the laboratory contain full deliverables for validation, but this usability report is generated from review of the QC summary form information, with full review of sample raw data and limited review of associated QC raw data. The reported QC summary forms and sample raw data have been reviewed for application of validation qualifiers, with guidance from the USEPA national and regional validation documents, and in consideration for the specific requirements of the analytical methodology. The following items were reviewed:

* Data Completeness
* Case Narrative
* Custody Documentation
* Holding Times
* Surrogate and Internal Standard Recoveries
* Method Blanks
* Laboratory Control Sample (LCS)
* Blind Field Duplicate Correlations
* Instrumental Tunes
* Calibration Standards
* Method Compliance
* Sample Result Verification

The data review includes evaluation of the specific items noted in The NYS DER-10 Appendix B section 2.0 (c). The items listed above that show deficiencies are discussed within the text of this narrative. The laboratory QC forms illustrating the excursions can be found within the laboratory data package.

In summary, most results for target analytes are usable either as reported or with qualification as estimated in value. However, the results for one volatile target analyte are not usable due to very poor instrument performance inherent in the methodology.

Copies of the client sample identification and the laboratory case narrative are attached to this text, and should be reviewed in conjunction with this report. Also attached are EDD files, with recommended qualifiers/edits applied in red ink.

Chain-of-Custody

The custody forms do not have a field for the relinquish date and time entries.

Volatile Analyses by EPA8260B

The results for 1,4-dioxane in the samples are not usable due to poor instrument performance that is inherent with the methodology.

The reported detection of 2-butanone in MW-7R_111113 is edited to reflect non-detection at an elevated reporting limit due to interferences in the mass spectrum.

Results for analytes initially reported with the laboratory "E" flag are derived from the dilution analyses, thus reflecting responses within the established linear ranges of the instrument.

Matrix spikes of MW-1_11113 show recoveries and duplicate correlations for all target analytes that are within laboratory acceptance ranges, with the exception of the recoveries of trichlorofluoro-methane (58% and 55%). The result for that compound in the parent sample is qualified as estimated.

Correlations for the blind field duplicate evaluation of MW-7R_111113 were within validation guidelines.

Holding time requirements were met, and instrument tunes meet fragmentation requirements. Surrogate and internal standard recoveries are within required ranges. Blanks show no contamination.

The following results are qualified as estimated due to low responses in the associated continuing calibration standards:

- acetone and 2-butanone (low RRFs) in all samples
- dichlorodifluoromethane (25%D) in MW-3_111113

Please do not hesitate to contact me if questions or comments arise during your review of this report.

Very truly yours,

Judy Harry

VALIDATION DATA QUALIFIER DEFINITIONS

U	The analyte was analyzed for, but was not detected above the level of the associated reported quantitation limit.
J	The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.
UJ	The analyte was not detected. The associated reported quantitation limit is an estimate and may be inaccurate or imprecise.
NJ	The detection is tentative in identification and estimated in value. Although there is presumptive evidence of the analyte, the result should be used with caution as a potential false positive and/or elevated quantitative value.
R	The data are unusable. The analyte may or may not be present.
EMPC	The results do not meet all criteria for a confirmed identification. The quantitative value represents the Estimated Maximum Possible Concentration of the analyte in the sample.

CLIENT and LABORATORY SAMPLE IDs and LABORATORY CASE NARRATIVE

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

New York State Department of Environmental Conservation
Sample Identification and Analytical Requirements Summary

Project Name : S&S Dry Cleaners & Dyers -- 0266396.0000 **SDG :** M2225

Customer Sample ID	Laboratory Sample ID	Analytical Requirements				
		MSVOA Method #	MSSEMI Method #	GC* Method #	ME	Other
MW-12_111113	M2225-01	SW8260_W				
MW-10B_111113	M2225-02	SW8260_W				
MW-1_111113	M2225-03	SW8260_W				
MW-6R_111113	M2225-04	SW8260_W				
MW-7R_111113	M2225-05	SW8260_W				
MW-X_111113	M2225-06	SW8260_W				
MW-3_111113	M2225-07	SW8260_W				
MW-4_111113	M2225-08	SW8260_W				
MW-5_111213	M2225-09	SW8260_W				
MW-9_111213	M2225-10	SW8260_W				
MW-11B_111313	M2225-11	SW8260_W				
MW-8_111313	M2225-12	SW8260_W				
TRIPBLANK_111113	M2225-13	SW8260_W				

Report Date:
03-Dec-13 09:27

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

☑ Final Report
☐ Re-Issued Report
☐ Revised Report

Laboratory Report

ARCADIS U.S., Inc.
855 Route 146, Suite 210
Clifton Park, NY 12065

Work Order: M2225
Project : S&S Dry Cleaners & Dyers
Project #: 0266396.0000

Attn: Andy Vitolins

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
M2225-01	MW-12_111113	Aqueous	11-Nov-13 08:30	14-Nov-13 08:40
M2225-02	MW-10B_111113	Aqueous	11-Nov-13 08:40	14-Nov-13 08:40
M2225-03	MW-1_111113	Aqueous	11-Nov-13 10:15	14-Nov-13 08:40
M2225-04	MW-6R_111113	Aqueous	11-Nov-13 11:15	14-Nov-13 08:40
M2225-05	MW-7R_111113	Aqueous	11-Nov-13 12:15	14-Nov-13 08:40
M2225-06	MW-X_111113	Aqueous	11-Nov-13 00:00	14-Nov-13 08:40
M2225-07	MW-3_111113	Aqueous	11-Nov-13 13:05	14-Nov-13 08:40
M2225-08	MW-4_111113	Aqueous	11-Nov-13 14:05	14-Nov-13 08:40
M2225-09	MW-5_111213	Aqueous	12-Nov-13 08:40	14-Nov-13 08:40
M2225-10	MW-9_111213	Aqueous	12-Nov-13 09:40	14-Nov-13 08:40
M2225-11	MW-11B_111313	Aqueous	13-Nov-13 09:05	14-Nov-13 08:40
M2225-12	MW-8_111313	Aqueous	13-Nov-13 10:25	14-Nov-13 08:40
M2225-13	TRIPBLANK_111113	Aqueous	11-Nov-13 00:00	14-Nov-13 08:40

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. The results relate only to the samples(s) as received. This report may not be reproduced, except in full, without written approval from Spectrum Analytical.

All applicable NELAC or USEPA CLP requirments have been meet.

Spectrum Analytical (Rhode Island) is accredited under the National Environmental Laboratory Approval Program (NELAP) and DoD Environmental Laboratory Accreditation Program (ELAP), holds Organic and Inorganic contracts under the USEPA CLP Program and is certified under several states. The current list of our laboratory approvals and certifications is available on the Certifications page on our web site at www.spectrum-analytical.com.

Please contact the Laboratory or Technical Director at 401-732-3400 with any questions regarding the data contained in the laboratory report.

Department of Defense	N/A
Connecticut	PH-0153
Delaware	N/A
Florida	E87664
Maine	2007037
Massachusetts	M-RI907
New Hampshire	2631
New Jersey	RI001
New York	11522
North Carolina	581
Rhode Island	LAI00301
USDA	P330-08-00023
USEPA - ISM	EP-W-09-039
USEPA - SOM	EP-W-11-033

LABORATORY ACCREDITATION BUREAU ACCREDITED
Certificate # L2247 Testing

Authorized by:

Yihai Ding
Laboratory Director

ARCADIS

Appendix H

Analytical Laboratory Reporting Forms

SOIL IRM

Report Date:
04-Jun-13 14:26

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

☑ Final Report
☐ Re-Issued Report
☐ Revised Report

Laboratory Report

ARCADIS U.S., Inc.
855 Route 146, Suite 210
Clifton Park, NY 12065

Work Order: M0760
Project : S&S Dry Cleaners & Dyers
Project #: 0266396.0000

Attn: Andy Vitolins

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
M0760-01	CS-W1	Soil	15-May-13 08:50	16-May-13 10:30
M0760-02	CS-W2	Soil	15-May-13 08:52	16-May-13 10:30
M0760-03	CS-B1	Soil	15-May-13 08:53	16-May-13 10:30
M0760-04	CS-S1	Soil	15-May-13 08:55	16-May-13 10:30
M0760-05	CS-S2	Soil	15-May-13 09:00	16-May-13 10:30
M0760-06	CS-N1	Soil	15-May-13 09:03	16-May-13 10:30
M0760-07	CS-N2	Soil	15-May-13 14:00	16-May-13 10:30

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. The results relate only to the samples(s) as received. This report may not be reproduced, except in full, without written approval from Spectrum Analytical.

All applicable NELAC or USEPA CLP requirments have been meet.

Spectrum Analytical (Rhode Island) is accredited under the National Environmental Laboratory Approval Program (NELAP) and DoD Environmental Laboratory Accreditation Program (ELAP), holds Organic and Inorganic contracts under the USEPA CLP Program and is certified under several states. The current list of our laboratory approvals and certifications is available on the Certifications page on our web site at www.spectrum-analytical.com.

Please contact the Laboratory or Technical Director at 401-732-3400 with any questions regarding the data contained in the laboratory report.

Department of Defense	N/A
Connecticut	PH-0153
Delaware	N/A
Florida	E87664
Maine	2007037
Massachusetts	M-RI907
New Hampshire	2631
New Jersey	RI001
New York	11522
North Carolina	581
Rhode Island	LAI00301
USDA	P330-08-00023
USEPA - ISM	EP-W-09-039
USEPA - SOM	EP-W-11-033

NELAP ACCREDITED TNI LABORATORY

LABORATORY ACCREDITATION BUREAU ACCREDITED
DoD ELAP
Certificate # L2247 Testing

Authorized by:

Yihai Ding
Laboratory Director



SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

* Data Summary Pack *

175 Metro Center Boulevard · Warwick, RI 02886-1755 · 401-732-3400 · FAX 401-732-3499
www.spectrum-analytical.com

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

New York State Department of Environmental Conservation
Sample Identification and Analytical Requirements Summary

Project Name : S&S Dry Cleaners & Dyers -- 0266396.0000 **SDG :** M0760

Customer Sample ID	Laboratory Sample ID	Analytical Requirements				
		MSVOA Method #	MSSEMI Method #	GC* Method #	ME	Other
CS-W1	M0760-01	SW8260_LOW_S				
CS-W2	M0760-02	SW8260_LOW_S				
CS-B1	M0760-03	SW8260_LOW_S				
CS-S1	M0760-04	SW8260_MED_S				
CS-S2	M0760-05	SW8260_MED_S				
CS-N1	M0760-06	SW8260_MED_S				
CS-N2	M0760-07	SW8260_MED_S				

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

New York State Department of Environmental Conservation
Sample Preparation and Analysis Summary MSVOA

Project Name : S&S Dry Cleaners & Dyers -- 0266396.0000 **SDG :** M0760

Laboratory Sample ID	Matrix	Date Collected	Date Received By Lab	Date Extracted	Date Analyzed
SW8260_LOW_S					
M0760-01A	SL	5/15/2013	5/16/2013	NA	5/17/2013
M0760-02A	SL	5/15/2013	5/16/2013	NA	5/17/2013
M0760-03A	SL	5/15/2013	5/16/2013	NA	5/17/2013
SW8260_MED_S					
M0760-04A	SL	5/15/2013	5/16/2013	5/17/2013	5/17/2013
M0760-05A	SL	5/15/2013	5/16/2013	5/17/2013	5/17/2013
M0760-06A	SL	5/15/2013	5/16/2013	5/17/2013	5/17/2013
M0760-07A	SL	5/15/2013	5/16/2013	5/17/2013	5/17/2013

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

New York State Department of Environmental Conservation
Sample Preparation and Analysis Summary MSVOA

Project Name : S&S Dry Cleaners & Dyers -- 0266396.0000 **SDG :** M0760

Laboratory Sample ID	Matrix	Analytical Protocol	Extraction Method	Low/Medium Level	Dil/Conc Factor
SW8260_LOW_S					
M0760-01A	SL	SW8260_LOW_S	NA	LOW	1
M0760-02A	SL	SW8260_LOW_S	NA	LOW	1
M0760-03A	SL	SW8260_LOW_S	NA	LOW	1
SW8260_MED_S					
M0760-04A	SL	SW8260_MED_S	SW5035_MED_PR	MED	1
M0760-05A	SL	SW8260_MED_S	SW5035_MED_PR	MED	1
M0760-06A	SL	SW8260_MED_S	SW5035_MED_PR	MED	1
M0760-07A	SL	SW8260_MED_S	SW5035_MED_PR	MED	1

M0760

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

WorkOrder: M0760

Client ID: MALCOLM_LATHAM
Project: S&S Dry Cleaners & Dyers
WO Name: S&S Dry Cleaners & Dyers
Location: ARCADIS_COHOES, 0266396.0000
Comments: N/A

Case:
SDG:
PO: 00266396.0000

HC Due: 06/03/13
Fax Due: 05/17/13
Fax Report: ☑

Report Level: ASP-B
Special Program:
EDD: EQUIIS_4_NYSDEC

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
M0760-01A	CS-W1	05/15/2013 08:50	05/16/2013	Soil	PMoist	/					VOA
M0760-01A	CS-W1	05/15/2013 08:50	05/16/2013	Soil	SW8260_LOW_S	/ SOM List				Y	VOA
M0760-01A	CS-W1	05/15/2013 08:50	05/16/2013	Soil	SW8260_MED_S	/ SOM List		Y		Y	VOA
M0760-02A	CS-W2	05/15/2013 08:52	05/16/2013	Soil	PMoist	/					VOA
M0760-02A	CS-W2	05/15/2013 08:52	05/16/2013	Soil	SW8260_LOW_S	/ SOM List				Y	VOA
M0760-02A	CS-W2	05/15/2013 08:52	05/16/2013	Soil	SW8260_MED_S	/ SOM List		Y		Y	VOA
M0760-03A	CS-B1	05/15/2013 08:53	05/16/2013	Soil	PMoist	/					VOA
M0760-03A	CS-B1	05/15/2013 08:53	05/16/2013	Soil	SW8260_LOW_S	/ SOM List				Y	VOA
M0760-03A	CS-B1	05/15/2013 08:53	05/16/2013	Soil	SW8260_MED_S	/ SOM List		Y		Y	VOA
M0760-04A	CS-S1	05/15/2013 08:55	05/16/2013	Soil	PMoist	/					VOA
M0760-04A	CS-S1	05/15/2013 08:55	05/16/2013	Soil	SW8260_LOW_S	/ SOM List		Y		Y	VOA
M0760-04A	CS-S1	05/15/2013 08:55	05/16/2013	Soil	SW8260_MED_S	/ SOM List				Y	VOA
M0760-05A	CS-S2	05/15/2013 09:00	05/16/2013	Soil	PMoist	/					VOA
M0760-05A	CS-S2	05/15/2013 09:00	05/16/2013	Soil	SW8260_LOW_S	/ SOM List		Y		Y	VOA
M0760-05A	CS-S2	05/15/2013 09:00	05/16/2013	Soil	SW8260_MED_S	/ SOM List				Y	VOA
M0760-06A	CS-N1	05/15/2013 09:03	05/16/2013	Soil	PMoist	/					VOA
M0760-06A	CS-N1	05/15/2013 09:03	05/16/2013	Soil	SW8260_LOW_S	/ SOM List		Y		Y	VOA
M0760-06A	CS-N1	05/15/2013 09:03	05/16/2013	Soil	SW8260_MED_S	/ SOM List				Y	VOA
M0760-07A	CS-N2	05/15/2013 14:00	05/16/2013	Soil	PMoist	/					VOA
M0760-07A	CS-N2	05/15/2013 14:00	05/16/2013	Soil	SW8260_LOW_S	/ SOM List		Y		Y	VOA
M0760-07A	CS-N2	05/15/2013 14:00	05/16/2013	Soil	SW8260_MED_S	/ SOM List				Y	VOA

HF = Fraction logged in but all tests have been placed on hold

HT = Test logged in but has been placed on hold

06/04/2013 09:23 Lab Client Rep: Agnes R Huntley

* Volatiles *

REPORT NARRATIVE

Spectrum Analytical, Inc. Featuring Hanibal Technology, RI Division.

Client : ARCADIS U.S., Inc.

Project: S&S Dry Cleaners & Dyers

Laboratory Workorder / SDG #: M0760

SW846 8260C, VOC by GC-MS

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code: SW846 8260C

IV. PREPARATION

Soil Samples were prepared following procedures in laboratory test code: SW5030B
Soil Samples were prepared following procedures in laboratory test code: SW5035

V. INSTRUMENTATION

The following instrumentation was used

Instrument Code: V10
Instrument Type: GCMS-VOA
Description: HP7890A
Manufacturer: Agilent
Model: 7890A / 5975C
GC Column used: 30 m X 0.25 mm ID [1.40 um thickness] DB-624 capillary column.

Instrument Code: V5
Instrument Type: GCMS-VOA
Description: HP6890 / HP6890
Manufacturer: Hewlett-Packard
Model: 6890 / 6890
GC Column used: 30 m X 0.25 mm ID [1.40 um thickness] DB-624 capillary column.

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

Surrogate standard percent recoveries were within the QC limits with the following exceptions. Please note that the acceptance criteria allow one surrogate recovery outside of the QC limits per fraction.

CS-W2 (M0760-02A), recovery is below criteria for 1,2-Dichloroethane-d4 at 78% with criteria of (88-110).

CS-B1 (M0760-03A), recovery is below criteria for 1,2-Dichloroethane-d4 at 81% with criteria of (88-110).

(MB-71725), recovery is below criteria for 1,2-Dichloroethane-d4 at 79% with criteria of (88-110).

D. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits.

Replicate RPDs were within the advisory QC limits.

2. **Matrix Spike / Matrix Spike Duplicate (MS/MSD):**

No client-requested MS/MSD analyses were included in this SDG.

E. Internal Standards:

Internal standard peak areas were within the QC limits.

F. Dilutions:

No sample in this SDG required analysis at dilution.

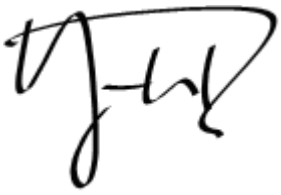
G. Samples:

No other unusual occurrences were noted during sample analysis.

H. Manual Integration

No manual integrations were performed on any sample or standard.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.



Signed:_____ _____

Date:_____6/4/2013_____

Data Flag/Qualifiers:

U Not Detected. This compound was analyzed-for but not detected. For most analyses the reporting limit (lowest standard concentration) is the value listed. For Department of Defense programs, this is the Limit of Detection (LOD).

J This flag indicates an estimated value due to either
- the compound was detected below the reporting limit, or
- estimated concentration for Tentatively Identified Compound

B This flag indicates the compound was also detected in the associated Method Blank. The B flag has an alternative meaning for Inorganics analyses reported using CLP ILM-type metals forms, indicating a "trace" concentration below the reporting limit and equal to or above the detection limit.

D For Organics analysis, this flag indicates the compound concentration was obtained from a secondary dilution analysis

E This flag indicates the compound concentration exceeded the Calibration Range. The E flag has an alternative meaning for Inorganics analyses reported using CLP metals forms, indicating an estimated concentration due to the presence of interferences, as determined by the serial dilution analysis.

P This flag is used for pesticides/PCB/herbicide compound when there is a greater than 40% difference for detected concentration between the two GC columns used for primary and confirmation analyses. This difference typically indicates an interference, causing one value to be unusually high. The **lower** of the two values is generally reported on the Form 1, and both values reported on the Form 10.

A Used to flag semivolatile organic Tentatively Identified Compound library search results for compounds identified as aldol condensation byproducts.

N Used to flag results for volatile and semivolatile Organics analysis Tentatively Identified Compounds where an analyte has passed the identification criteria, and is considered to be positively identified. For Inorganics analysis the N flag indicates the matrix spike recovery falls outside of the control limit.

* For Inorganics analysis the * flag indicates Relative Percent Difference for duplicate analyses is outside of the control limit.

Sample ID Suffixes

DL Diluted analysis. The sample was diluted and reanalyzed. The DL may be followed by a digit if more than one diluted reanalysis is provided. The DL suffix is not attached to an analysis initially performed at dilution, only to reanalyses performed at dilution

RE Reanalysis. Appended to the client sample ID to indicate a reextraction and reanalysis or a reanalysis of the original sample extract.

RA Reanalysis. Appended to the laboratory sample ID indicates a reanalysis of the original sample extract.

RX Reextraction. Appended to the laboratory sample ID indicates a reextraction of the sample.

MS Matrix Spike.

MSD Matrix Spike Duplicate

DUP Duplicate analysis

SD Serial Dilution

PS Post-digestion or Post-distillation spike. For metals or inorganic analyses

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CS-W1

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0760 Mod. Ref No.: SDG No.: SM0760

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M0760-01A

Sample wt/vol: 5.10 (g/mL) G Lab File ID: V5O3528.D

Level: (TRACE/LOW/MED) LOW Date Received: 05/16/2013

% Moisture: not dec. 26 Date Analyzed: 05/17/2013

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	6.6	U
74-87-3	Chloromethane	6.6	U
75-01-4	Vinyl chloride	6.6	U
74-83-9	Bromomethane	6.6	U
75-00-3	Chloroethane	6.6	U
75-69-4	Trichlorofluoromethane	6.6	U
75-35-4	1,1-Dichloroethene	6.6	U
67-64-1	Acetone	6.6	U
75-15-0	Carbon disulfide	6.6	U
75-09-2	Methylene chloride	6.6	U
156-60-5	trans-1,2-Dichloroethene	6.6	U
1634-04-4	Methyl tert-butyl ether	6.6	U
75-34-3	1,1-Dichloroethane	6.6	U
78-93-3	2-Butanone	6.6	U
156-59-2	cis-1,2-Dichloroethene	6.6	U
74-97-5	Bromochloromethane	6.6	U
67-66-3	Chloroform	6.6	U
71-55-6	1,1,1-Trichloroethane	6.6	U
56-23-5	Carbon tetrachloride	6.6	U
107-06-2	1,2-Dichloroethane	6.6	U
71-43-2	Benzene	6.6	U
79-01-6	Trichloroethene	6.6	U
78-87-5	1,2-Dichloropropane	6.6	U
75-27-4	Bromodichloromethane	6.6	U
10061-01-5	cis-1,3-Dichloropropene	6.6	U
108-10-1	4-Methyl-2-pentanone	6.6	U
108-88-3	Toluene	6.6	U
10061-02-6	trans-1,3-Dichloropropene	6.6	U
79-00-5	1,1,2-Trichloroethane	6.6	U
127-18-4	Tetrachloroethene	6.6	U
591-78-6	2-Hexanone	6.6	U
124-48-1	Dibromochloromethane	6.6	U
106-93-4	1,2-Dibromoethane	6.6	U
108-90-7	Chlorobenzene	6.6	U
100-41-4	Ethylbenzene	6.6	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CS-W1

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0760 Mod. Ref No.: SDG No.: SM0760

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M0760-01A

Sample wt/vol: 5.10 (g/mL) G Lab File ID: V5O3528.D

Level: (TRACE/LOW/MED) LOW Date Received: 05/16/2013

% Moisture: not dec. 26 Date Analyzed: 05/17/2013

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
179601-23-1	m,p-Xylene	6.6	U
95-47-6	o-Xylene	6.6	U
100-42-5	Styrene	6.6	U
75-25-2	Bromoform	6.6	U
98-82-8	Isopropylbenzene	6.6	U
79-34-5	1,1,2,2-Tetrachloroethane	6.6	U
541-73-1	1,3-Dichlorobenzene	6.6	U
106-46-7	1,4-Dichlorobenzene	6.6	U
95-50-1	1,2-Dichlorobenzene	6.6	U
96-12-8	1,2-Dibromo-3-chloropropane	6.6	U
120-82-1	1,2,4-Trichlorobenzene	6.6	U
87-61-6	1,2,3-Trichlorobenzene	6.6	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	6.6	U
123-91-1	1,4-Dioxane	130	U
110-82-7	Cyclohexane	6.6	U
79-20-9	Methyl acetate	6.6	U
108-87-2	Methylcyclohexane	6.6	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CS-W2

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0760 Mod. Ref No.: SDG No.: SM0760

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M0760-02A

Sample wt/vol: 5.00 (g/mL) G Lab File ID: V5O3526.D

Level: (TRACE/LOW/MED) LOW Date Received: 05/16/2013

% Moisture: not dec. 29 Date Analyzed: 05/17/2013

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	7.0	U
74-87-3	Chloromethane	7.0	U
75-01-4	Vinyl chloride	11	
74-83-9	Bromomethane	7.0	U
75-00-3	Chloroethane	7.0	U
75-69-4	Trichlorofluoromethane	7.0	U
75-35-4	1,1-Dichloroethene	7.0	U
67-64-1	Acetone	7.0	U
75-15-0	Carbon disulfide	7.0	U
75-09-2	Methylene chloride	7.0	U
156-60-5	trans-1,2-Dichloroethene	7.0	U
1634-04-4	Methyl tert-butyl ether	7.0	U
75-34-3	1,1-Dichloroethane	7.0	U
78-93-3	2-Butanone	7.0	U
156-59-2	cis-1,2-Dichloroethene	56	
74-97-5	Bromochloromethane	7.0	U
67-66-3	Chloroform	7.0	U
71-55-6	1,1,1-Trichloroethane	7.0	U
56-23-5	Carbon tetrachloride	7.0	U
107-06-2	1,2-Dichloroethane	7.0	U
71-43-2	Benzene	7.0	U
79-01-6	Trichloroethene	7.0	U
78-87-5	1,2-Dichloropropane	7.0	U
75-27-4	Bromodichloromethane	7.0	U
10061-01-5	cis-1,3-Dichloropropene	7.0	U
108-10-1	4-Methyl-2-pentanone	7.0	U
108-88-3	Toluene	7.0	U
10061-02-6	trans-1,3-Dichloropropene	7.0	U
79-00-5	1,1,2-Trichloroethane	7.0	U
127-18-4	Tetrachloroethene	90	
591-78-6	2-Hexanone	7.0	U
124-48-1	Dibromochloromethane	7.0	U
106-93-4	1,2-Dibromoethane	7.0	U
108-90-7	Chlorobenzene	7.0	U
100-41-4	Ethylbenzene	7.0	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CS-W2

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0760 Mod. Ref No.: SDG No.: SM0760

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M0760-02A

Sample wt/vol: 5.00 (g/mL) G Lab File ID: V5O3526.D

Level: (TRACE/LOW/MED) LOW Date Received: 05/16/2013

% Moisture: not dec. 29 Date Analyzed: 05/17/2013

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
179601-23-1	m,p-Xylene	7.0	U
95-47-6	o-Xylene	7.0	U
100-42-5	Styrene	7.0	U
75-25-2	Bromoform	7.0	U
98-82-8	Isopropylbenzene	7.0	U
79-34-5	1,1,2,2-Tetrachloroethane	7.0	U
541-73-1	1,3-Dichlorobenzene	7.0	U
106-46-7	1,4-Dichlorobenzene	7.0	U
95-50-1	1,2-Dichlorobenzene	7.0	U
96-12-8	1,2-Dibromo-3-chloropropane	7.0	U
120-82-1	1,2,4-Trichlorobenzene	7.0	U
87-61-6	1,2,3-Trichlorobenzene	7.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	7.0	U
123-91-1	1,4-Dioxane	140	U
110-82-7	Cyclohexane	7.0	U
79-20-9	Methyl acetate	7.0	U
108-87-2	Methylcyclohexane	7.0	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CS-B1

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0760 Mod. Ref No.: SDG No.: SM0760

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M0760-03A

Sample wt/vol: 4.90 (g/mL) G Lab File ID: V5O3527.D

Level: (TRACE/LOW/MED) LOW Date Received: 05/16/2013

% Moisture: not dec. 28 Date Analyzed: 05/17/2013

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	7.1	U
74-87-3	Chloromethane	7.1	U
75-01-4	Vinyl chloride	7.1	U
74-83-9	Bromomethane	7.1	U
75-00-3	Chloroethane	7.1	U
75-69-4	Trichlorofluoromethane	7.1	U
75-35-4	1,1-Dichloroethene	7.1	U
67-64-1	Acetone	7.1	U
75-15-0	Carbon disulfide	7.1	U
75-09-2	Methylene chloride	7.1	U
156-60-5	trans-1,2-Dichloroethene	7.1	U
1634-04-4	Methyl tert-butyl ether	7.1	U
75-34-3	1,1-Dichloroethane	7.1	U
78-93-3	2-Butanone	7.1	U
156-59-2	cis-1,2-Dichloroethene	7.1	U
74-97-5	Bromochloromethane	7.1	U
67-66-3	Chloroform	7.1	U
71-55-6	1,1,1-Trichloroethane	7.1	U
56-23-5	Carbon tetrachloride	7.1	U
107-06-2	1,2-Dichloroethane	7.1	U
71-43-2	Benzene	7.1	U
79-01-6	Trichloroethene	7.1	U
78-87-5	1,2-Dichloropropane	7.1	U
75-27-4	Bromodichloromethane	7.1	U
10061-01-5	cis-1,3-Dichloropropene	7.1	U
108-10-1	4-Methyl-2-pentanone	7.1	U
108-88-3	Toluene	7.1	U
10061-02-6	trans-1,3-Dichloropropene	7.1	U
79-00-5	1,1,2-Trichloroethane	7.1	U
127-18-4	Tetrachloroethene	5.3	J
591-78-6	2-Hexanone	7.1	U
124-48-1	Dibromochloromethane	7.1	U
106-93-4	1,2-Dibromoethane	7.1	U
108-90-7	Chlorobenzene	7.1	U
100-41-4	Ethylbenzene	7.1	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CS-B1

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0760 Mod. Ref No.: SDG No.: SM0760

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M0760-03A

Sample wt/vol: 4.90 (g/mL) G Lab File ID: V5O3527.D

Level: (TRACE/LOW/MED) LOW Date Received: 05/16/2013

% Moisture: not dec. 28 Date Analyzed: 05/17/2013

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
179601-23-1	m,p-Xylene	7.1	U
95-47-6	o-Xylene	7.1	U
100-42-5	Styrene	7.1	U
75-25-2	Bromoform	7.1	U
98-82-8	Isopropylbenzene	7.1	U
79-34-5	1,1,2,2-Tetrachloroethane	7.1	U
541-73-1	1,3-Dichlorobenzene	7.1	U
106-46-7	1,4-Dichlorobenzene	7.1	U
95-50-1	1,2-Dichlorobenzene	7.1	U
96-12-8	1,2-Dibromo-3-chloropropane	7.1	U
120-82-1	1,2,4-Trichlorobenzene	7.1	U
87-61-6	1,2,3-Trichlorobenzene	7.1	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	7.1	U
123-91-1	1,4-Dioxane	140	U
110-82-7	Cyclohexane	7.1	U
79-20-9	Methyl acetate	7.1	U
108-87-2	Methylcyclohexane	7.1	U

EPA SAMPLE NO.
CS-S1

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0760 Mod. Ref No.: SDG No.: SM0760

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M0760-04A

Sample wt/vol: 5.70 (g/mL) G Lab File ID: V8B9907.D

Level: (TRACE/LOW/MED) MED Date Received: 05/16/2013

% Moisture: not dec. 28 Date Analyzed: 05/17/2013

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: 100.00 (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	400	U
74-87-3	Chloromethane	400	U
75-01-4	Vinyl chloride	400	U
74-83-9	Bromomethane	400	U
75-00-3	Chloroethane	400	U
75-69-4	Trichlorofluoromethane	400	U
75-35-4	1,1-Dichloroethene	400	U
67-64-1	Acetone	400	U
75-15-0	Carbon disulfide	400	U
75-09-2	Methylene chloride	400	U
156-60-5	trans-1,2-Dichloroethene	400	U
1634-04-4	Methyl tert-butyl ether	400	U
75-34-3	1,1-Dichloroethane	400	U
78-93-3	2-Butanone	400	U
156-59-2	cis-1,2-Dichloroethene	400	U
74-97-5	Bromochloromethane	400	U
67-66-3	Chloroform	400	U
71-55-6	1,1,1-Trichloroethane	400	U
56-23-5	Carbon tetrachloride	400	U
107-06-2	1,2-Dichloroethane	400	U
71-43-2	Benzene	400	U
79-01-6	Trichloroethene	400	U
78-87-5	1,2-Dichloropropane	400	U
75-27-4	Bromodichloromethane	400	U
10061-01-5	cis-1,3-Dichloropropene	400	U
108-10-1	4-Methyl-2-pentanone	400	U
108-88-3	Toluene	400	U
10061-02-6	trans-1,3-Dichloropropene	400	U
79-00-5	1,1,2-Trichloroethane	400	U
127-18-4	Tetrachloroethene	4100	
591-78-6	2-Hexanone	400	U
124-48-1	Dibromochloromethane	400	U
106-93-4	1,2-Dibromoethane	400	U
108-90-7	Chlorobenzene	400	U
100-41-4	Ethylbenzene	400	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CS-S1

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0760 Mod. Ref No.: SDG No.: SM0760

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M0760-04A

Sample wt/vol: 5.70 (g/mL) G Lab File ID: V8B9907.D

Level: (TRACE/LOW/MED) MED Date Received: 05/16/2013

% Moisture: not dec. 28 Date Analyzed: 05/17/2013

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: 100.00 (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
179601-23-1	m,p-Xylene	400	U
95-47-6	o-Xylene	400	U
100-42-5	Styrene	400	U
75-25-2	Bromoform	400	U
98-82-8	Isopropylbenzene	400	U
79-34-5	1,1,2,2-Tetrachloroethane	400	U
541-73-1	1,3-Dichlorobenzene	400	U
106-46-7	1,4-Dichlorobenzene	400	U
95-50-1	1,2-Dichlorobenzene	400	U
96-12-8	1,2-Dibromo-3-chloropropane	400	U
120-82-1	1,2,4-Trichlorobenzene	400	U
87-61-6	1,2,3-Trichlorobenzene	400	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	400	U
123-91-1	1,4-Dioxane	8000	U
110-82-7	Cyclohexane	400	U
79-20-9	Methyl acetate	400	U
108-87-2	Methylcyclohexane	400	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CS-S2

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0760 Mod. Ref No.: SDG No.: SM0760

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M0760-05A

Sample wt/vol: 5.40 (g/mL) G Lab File ID: V8B9908.D

Level: (TRACE/LOW/MED) MED Date Received: 05/16/2013

% Moisture: not dec. 25 Date Analyzed: 05/17/2013

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: 100.00 (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	390	U
74-87-3	Chloromethane	390	U
75-01-4	Vinyl chloride	390	U
74-83-9	Bromomethane	390	U
75-00-3	Chloroethane	390	U
75-69-4	Trichlorofluoromethane	390	U
75-35-4	1,1-Dichloroethene	390	U
67-64-1	Acetone	390	U
75-15-0	Carbon disulfide	390	U
75-09-2	Methylene chloride	390	U
156-60-5	trans-1,2-Dichloroethene	390	U
1634-04-4	Methyl tert-butyl ether	390	U
75-34-3	1,1-Dichloroethane	390	U
78-93-3	2-Butanone	390	U
156-59-2	cis-1,2-Dichloroethene	390	U
74-97-5	Bromochloromethane	390	U
67-66-3	Chloroform	390	U
71-55-6	1,1,1-Trichloroethane	390	U
56-23-5	Carbon tetrachloride	390	U
107-06-2	1,2-Dichloroethane	390	U
71-43-2	Benzene	390	U
79-01-6	Trichloroethene	390	U
78-87-5	1,2-Dichloropropane	390	U
75-27-4	Bromodichloromethane	390	U
10061-01-5	cis-1,3-Dichloropropene	390	U
108-10-1	4-Methyl-2-pentanone	390	U
108-88-3	Toluene	390	U
10061-02-6	trans-1,3-Dichloropropene	390	U
79-00-5	1,1,2-Trichloroethane	390	U
127-18-4	Tetrachloroethene	450	
591-78-6	2-Hexanone	390	U
124-48-1	Dibromochloromethane	390	U
106-93-4	1,2-Dibromoethane	390	U
108-90-7	Chlorobenzene	390	U
100-41-4	Ethylbenzene	390	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CS-S2

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0760 Mod. Ref No.: SDG No.: SM0760

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M0760-05A

Sample wt/vol: 5.40 (g/mL) G Lab File ID: V8B9908.D

Level: (TRACE/LOW/MED) MED Date Received: 05/16/2013

% Moisture: not dec. 25 Date Analyzed: 05/17/2013

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: 100.00 (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
179601-23-1	m,p-Xylene	390	U
95-47-6	o-Xylene	390	U
100-42-5	Styrene	390	U
75-25-2	Bromoform	390	U
98-82-8	Isopropylbenzene	390	U
79-34-5	1,1,2,2-Tetrachloroethane	390	U
541-73-1	1,3-Dichlorobenzene	390	U
106-46-7	1,4-Dichlorobenzene	390	U
95-50-1	1,2-Dichlorobenzene	390	U
96-12-8	1,2-Dibromo-3-chloropropane	390	U
120-82-1	1,2,4-Trichlorobenzene	390	U
87-61-6	1,2,3-Trichlorobenzene	390	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	390	U
123-91-1	1,4-Dioxane	7800	U
110-82-7	Cyclohexane	390	U
79-20-9	Methyl acetate	390	U
108-87-2	Methylcyclohexane	390	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CS-N1

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0760 Mod. Ref No.: SDG No.: SM0760

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M0760-06A

Sample wt/vol: 5.00 (g/mL) G Lab File ID: V8B9909.D

Level: (TRACE/LOW/MED) MED Date Received: 05/16/2013

% Moisture: not dec. 27 Date Analyzed: 05/17/2013

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: 100.00 (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	430	U
74-87-3	Chloromethane	430	U
75-01-4	Vinyl chloride	430	U
74-83-9	Bromomethane	430	U
75-00-3	Chloroethane	430	U
75-69-4	Trichlorofluoromethane	430	U
75-35-4	1,1-Dichloroethene	430	U
67-64-1	Acetone	430	U
75-15-0	Carbon disulfide	430	U
75-09-2	Methylene chloride	430	U
156-60-5	trans-1,2-Dichloroethene	430	U
1634-04-4	Methyl tert-butyl ether	430	U
75-34-3	1,1-Dichloroethane	430	U
78-93-3	2-Butanone	430	U
156-59-2	cis-1,2-Dichloroethene	62	J
74-97-5	Bromochloromethane	430	U
67-66-3	Chloroform	430	U
71-55-6	1,1,1-Trichloroethane	430	U
56-23-5	Carbon tetrachloride	430	U
107-06-2	1,2-Dichloroethane	430	U
71-43-2	Benzene	430	U
79-01-6	Trichloroethene	430	U
78-87-5	1,2-Dichloropropane	430	U
75-27-4	Bromodichloromethane	430	U
10061-01-5	cis-1,3-Dichloropropene	430	U
108-10-1	4-Methyl-2-pentanone	430	U
108-88-3	Toluene	430	U
10061-02-6	trans-1,3-Dichloropropene	430	U
79-00-5	1,1,2-Trichloroethane	430	U
127-18-4	Tetrachloroethene	970	
591-78-6	2-Hexanone	430	U
124-48-1	Dibromochloromethane	430	U
106-93-4	1,2-Dibromoethane	430	U
108-90-7	Chlorobenzene	430	U
100-41-4	Ethylbenzene	430	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CS-N1

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0760 Mod. Ref No.: SDG No.: SM0760

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M0760-06A

Sample wt/vol: 5.00 (g/mL) G Lab File ID: V8B9909.D

Level: (TRACE/LOW/MED) MED Date Received: 05/16/2013

% Moisture: not dec. 27 Date Analyzed: 05/17/2013

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: 100.00 (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
179601-23-1	m,p-Xylene	430	U
95-47-6	o-Xylene	430	U
100-42-5	Styrene	430	U
75-25-2	Bromoform	430	U
98-82-8	Isopropylbenzene	430	U
79-34-5	1,1,2,2-Tetrachloroethane	430	U
541-73-1	1,3-Dichlorobenzene	430	U
106-46-7	1,4-Dichlorobenzene	430	U
95-50-1	1,2-Dichlorobenzene	430	U
96-12-8	1,2-Dibromo-3-chloropropane	430	U
120-82-1	1,2,4-Trichlorobenzene	430	U
87-61-6	1,2,3-Trichlorobenzene	430	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	430	U
123-91-1	1,4-Dioxane	8600	U
110-82-7	Cyclohexane	430	U
79-20-9	Methyl acetate	430	U
108-87-2	Methylcyclohexane	430	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CS-N2

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0760 Mod. Ref No.: SDG No.: SM0760

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M0760-07A

Sample wt/vol: 5.60 (g/mL) G Lab File ID: V8B9910.D

Level: (TRACE/LOW/MED) MED Date Received: 05/16/2013

% Moisture: not dec. 27 Date Analyzed: 05/17/2013

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: 100.00 (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	400	U
74-87-3	Chloromethane	400	U
75-01-4	Vinyl chloride	400	U
74-83-9	Bromomethane	400	U
75-00-3	Chloroethane	400	U
75-69-4	Trichlorofluoromethane	400	U
75-35-4	1,1-Dichloroethene	400	U
67-64-1	Acetone	400	U
75-15-0	Carbon disulfide	400	U
75-09-2	Methylene chloride	400	U
156-60-5	trans-1,2-Dichloroethene	400	U
1634-04-4	Methyl tert-butyl ether	400	U
75-34-3	1,1-Dichloroethane	400	U
78-93-3	2-Butanone	400	U
156-59-2	cis-1,2-Dichloroethene	400	U
74-97-5	Bromochloromethane	400	U
67-66-3	Chloroform	400	U
71-55-6	1,1,1-Trichloroethane	400	U
56-23-5	Carbon tetrachloride	400	U
107-06-2	1,2-Dichloroethane	400	U
71-43-2	Benzene	400	U
79-01-6	Trichloroethene	400	U
78-87-5	1,2-Dichloropropane	400	U
75-27-4	Bromodichloromethane	400	U
10061-01-5	cis-1,3-Dichloropropene	400	U
108-10-1	4-Methyl-2-pentanone	400	U
108-88-3	Toluene	400	U
10061-02-6	trans-1,3-Dichloropropene	400	U
79-00-5	1,1,2-Trichloroethane	400	U
127-18-4	Tetrachloroethene	1300	
591-78-6	2-Hexanone	400	U
124-48-1	Dibromochloromethane	400	U
106-93-4	1,2-Dibromoethane	400	U
108-90-7	Chlorobenzene	400	U
100-41-4	Ethylbenzene	400	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CS-N2

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0760 Mod. Ref No.: SDG No.: SM0760

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M0760-07A

Sample wt/vol: 5.60 (g/mL) G Lab File ID: V8B9910.D

Level: (TRACE/LOW/MED) MED Date Received: 05/16/2013

% Moisture: not dec. 27 Date Analyzed: 05/17/2013

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: 100.00 (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
179601-23-1	m,p-Xylene	400	U
95-47-6	o-Xylene	400	U
100-42-5	Styrene	400	U
75-25-2	Bromoform	400	U
98-82-8	Isopropylbenzene	400	U
79-34-5	1,1,2,2-Tetrachloroethane	400	U
541-73-1	1,3-Dichlorobenzene	400	U
106-46-7	1,4-Dichlorobenzene	400	U
95-50-1	1,2-Dichlorobenzene	400	U
96-12-8	1,2-Dibromo-3-chloropropane	400	U
120-82-1	1,2,4-Trichlorobenzene	400	U
87-61-6	1,2,3-Trichlorobenzene	400	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	400	U
123-91-1	1,4-Dioxane	7900	U
110-82-7	Cyclohexane	400	U
79-20-9	Methyl acetate	400	U
108-87-2	Methylcyclohexane	400	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MB-71723

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0760 Mod. Ref No.: SDG No.: SM0760

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: MB-71723

Sample wt/vol: 5.00 (g/mL) G Lab File ID: V8B9895.D

Level: (TRACE/LOW/MED) MED Date Received:

% Moisture: not dec. 0.0 Date Analyzed: 05/17/2013

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: 100.00 (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	250	U
74-87-3	Chloromethane	250	U
75-01-4	Vinyl chloride	250	U
74-83-9	Bromomethane	250	U
75-00-3	Chloroethane	250	U
75-69-4	Trichlorofluoromethane	250	U
75-35-4	1,1-Dichloroethene	250	U
67-64-1	Acetone	250	U
75-15-0	Carbon disulfide	250	U
75-09-2	Methylene chloride	250	U
156-60-5	trans-1,2-Dichloroethene	250	U
1634-04-4	Methyl tert-butyl ether	250	U
75-34-3	1,1-Dichloroethane	250	U
78-93-3	2-Butanone	250	U
156-59-2	cis-1,2-Dichloroethene	250	U
74-97-5	Bromochloromethane	250	U
67-66-3	Chloroform	250	U
71-55-6	1,1,1-Trichloroethane	250	U
56-23-5	Carbon tetrachloride	250	U
107-06-2	1,2-Dichloroethane	250	U
71-43-2	Benzene	250	U
79-01-6	Trichloroethene	250	U
78-87-5	1,2-Dichloropropane	250	U
75-27-4	Bromodichloromethane	250	U
10061-01-5	cis-1,3-Dichloropropene	250	U
108-10-1	4-Methyl-2-pentanone	250	U
108-88-3	Toluene	250	U
10061-02-6	trans-1,3-Dichloropropene	250	U
79-00-5	1,1,2-Trichloroethane	250	U
127-18-4	Tetrachloroethene	250	U
591-78-6	2-Hexanone	250	U
124-48-1	Dibromochloromethane	250	U
106-93-4	1,2-Dibromoethane	250	U
108-90-7	Chlorobenzene	250	U
100-41-4	Ethylbenzene	250	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MB-71723

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0760 Mod. Ref No.: SDG No.: SM0760

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: MB-71723

Sample wt/vol: 5.00 (g/mL) G Lab File ID: V8B9895.D

Level: (TRACE/LOW/MED) MED Date Received:

% Moisture: not dec. 0.0 Date Analyzed: 05/17/2013

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: 100.00 (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
179601-23-1	m,p-Xylene	250	U
95-47-6	o-Xylene	250	U
100-42-5	Styrene	250	U
75-25-2	Bromoform	250	U
98-82-8	Isopropylbenzene	250	U
79-34-5	1,1,2,2-Tetrachloroethane	250	U
541-73-1	1,3-Dichlorobenzene	250	U
106-46-7	1,4-Dichlorobenzene	250	U
95-50-1	1,2-Dichlorobenzene	250	U
96-12-8	1,2-Dibromo-3-chloropropane	250	U
120-82-1	1,2,4-Trichlorobenzene	250	U
87-61-6	1,2,3-Trichlorobenzene	250	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	250	U
123-91-1	1,4-Dioxane	5000	U
110-82-7	Cyclohexane	250	U
79-20-9	Methyl acetate	250	U
108-87-2	Methylcyclohexane	250	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MB-71725

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0760 Mod. Ref No.: SDG No.: SM0760

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: MB-71725

Sample wt/vol: 5.00 (g/mL) G Lab File ID: V5O3525.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. 0.0 Date Analyzed: 05/17/2013

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MB-71725

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0760 Mod. Ref No.: SDG No.: SM0760

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: MB-71725

Sample wt/vol: 5.00 (g/mL) G Lab File ID: V5O3525.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. 0.0 Date Analyzed: 05/17/2013

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
179601-23-1	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
123-91-1	1,4-Dioxane	100	U
110-82-7	Cyclohexane	5.0	U
79-20-9	Methyl acetate	5.0	U
108-87-2	Methylcyclohexane	5.0	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCS-71723

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0760 Mod. Ref No.: SDG No.: SM0760

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: LCS-71723

Sample wt/vol: 5.00 (g/mL) G Lab File ID: V8B9893.D

Level: (TRACE/LOW/MED) MED Date Received:

% Moisture: not dec. 0.0 Date Analyzed: 05/17/2013

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: 100.00 (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	2100	
74-87-3	Chloromethane	2300	
75-01-4	Vinyl chloride	2300	
74-83-9	Bromomethane	2400	
75-00-3	Chloroethane	2300	
75-69-4	Trichlorofluoromethane	2400	
75-35-4	1,1-Dichloroethene	2300	
67-64-1	Acetone	2100	
75-15-0	Carbon disulfide	2200	
75-09-2	Methylene chloride	2200	
156-60-5	trans-1,2-Dichloroethene	2300	
1634-04-4	Methyl tert-butyl ether	2300	
75-34-3	1,1-Dichloroethane	2300	
78-93-3	2-Butanone	2100	
156-59-2	cis-1,2-Dichloroethene	2300	
74-97-5	Bromochloromethane	2300	
67-66-3	Chloroform	2400	
71-55-6	1,1,1-Trichloroethane	2400	
56-23-5	Carbon tetrachloride	2400	
107-06-2	1,2-Dichloroethane	2400	
71-43-2	Benzene	2300	
79-01-6	Trichloroethene	2300	
78-87-5	1,2-Dichloropropane	2300	
75-27-4	Bromodichloromethane	2400	
10061-01-5	cis-1,3-Dichloropropene	2400	
108-10-1	4-Methyl-2-pentanone	2100	
108-88-3	Toluene	2300	
10061-02-6	trans-1,3-Dichloropropene	2400	
79-00-5	1,1,2-Trichloroethane	2300	
127-18-4	Tetrachloroethene	2600	
591-78-6	2-Hexanone	2400	
124-48-1	Dibromochloromethane	2700	
106-93-4	1,2-Dibromoethane	2600	
108-90-7	Chlorobenzene	2600	
100-41-4	Ethylbenzene	2700	

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCS-71723

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0760 Mod. Ref No.: SDG No.: SM0760

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: LCS-71723

Sample wt/vol: 5.00 (g/mL) G Lab File ID: V8B9893.D

Level: (TRACE/LOW/MED) MED Date Received:

% Moisture: not dec. 0.0 Date Analyzed: 05/17/2013

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: 100.00 (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
179601-23-1	m,p-Xylene	5500	
95-47-6	o-Xylene	2800	
100-42-5	Styrene	2700	
75-25-2	Bromoform	2700	
98-82-8	Isopropylbenzene	2800	
79-34-5	1,1,2,2-Tetrachloroethane	2500	
541-73-1	1,3-Dichlorobenzene	2700	
106-46-7	1,4-Dichlorobenzene	2600	
95-50-1	1,2-Dichlorobenzene	2700	
96-12-8	1,2-Dibromo-3-chloropropane	2500	
120-82-1	1,2,4-Trichlorobenzene	2800	
87-61-6	1,2,3-Trichlorobenzene	2800	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	2200	
123-91-1	1,4-Dioxane	42000	
110-82-7	Cyclohexane	2300	
79-20-9	Methyl acetate	2300	
108-87-2	Methylcyclohexane	2300	

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCS-71725

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0760 Mod. Ref No.: SDG No.: SM0760

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: LCS-71725

Sample wt/vol: 5.00 (g/mL) G Lab File ID: V5O3523.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. 0.0 Date Analyzed: 05/17/2013

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	49	
74-87-3	Chloromethane	52	
75-01-4	Vinyl chloride	53	
74-83-9	Bromomethane	51	
75-00-3	Chloroethane	49	
75-69-4	Trichlorofluoromethane	52	
75-35-4	1,1-Dichloroethene	52	
67-64-1	Acetone	26	
75-15-0	Carbon disulfide	50	
75-09-2	Methylene chloride	48	
156-60-5	trans-1,2-Dichloroethene	50	
1634-04-4	Methyl tert-butyl ether	49	
75-34-3	1,1-Dichloroethane	51	
78-93-3	2-Butanone	52	
156-59-2	cis-1,2-Dichloroethene	51	
74-97-5	Bromochloromethane	50	
67-66-3	Chloroform	53	
71-55-6	1,1,1-Trichloroethane	54	
56-23-5	Carbon tetrachloride	52	
107-06-2	1,2-Dichloroethane	55	
71-43-2	Benzene	52	
79-01-6	Trichloroethene	51	
78-87-5	1,2-Dichloropropane	52	
75-27-4	Bromodichloromethane	52	
10061-01-5	cis-1,3-Dichloropropene	51	
108-10-1	4-Methyl-2-pentanone	58	
108-88-3	Toluene	52	
10061-02-6	trans-1,3-Dichloropropene	52	
79-00-5	1,1,2-Trichloroethane	53	
127-18-4	Tetrachloroethene	54	
591-78-6	2-Hexanone	50	
124-48-1	Dibromochloromethane	51	
106-93-4	1,2-Dibromoethane	50	
108-90-7	Chlorobenzene	51	
100-41-4	Ethylbenzene	49	

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCS-71725

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0760 Mod. Ref No.: SDG No.: SM0760

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: LCS-71725

Sample wt/vol: 5.00 (g/mL) G Lab File ID: V5O3523.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. 0.0 Date Analyzed: 05/17/2013

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
179601-23-1	m,p-Xylene	99	
95-47-6	o-Xylene	50	
100-42-5	Styrene	41	
75-25-2	Bromoform	52	
98-82-8	Isopropylbenzene	50	
79-34-5	1,1,2,2-Tetrachloroethane	51	
541-73-1	1,3-Dichlorobenzene	50	
106-46-7	1,4-Dichlorobenzene	51	
95-50-1	1,2-Dichlorobenzene	49	
96-12-8	1,2-Dibromo-3-chloropropane	50	
120-82-1	1,2,4-Trichlorobenzene	54	
87-61-6	1,2,3-Trichlorobenzene	56	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	54	
123-91-1	1,4-Dioxane	1200	
110-82-7	Cyclohexane	53	
79-20-9	Methyl acetate	56	
108-87-2	Methylcyclohexane	53	

2D - FORM II VOA-4

SOIL VOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0760 Mod. Ref No.: SDG No.: SM0760

Level: (LOW/MED) LOW

	EPA SAMPLE NO.	VDMC1 (DBFM) #	VDMC2 (DCE) #	VDMC3 (TOL) #	VDMC4 (BFB) #				TOT OUT
01	LCS-71725	101	95	100	97				0
02	MB-71725	96	79 *	107	97				1
03	CS-W2	96	78 *	111	103				1
04	CS-B1	98	81 *	109	99				1
05	CS-W1	100	89	104	104				0

		QC LIMITS
VDMC1	(DBFM) Dibromofluoromethane	(76-128)
VDMC2	(DCE) = 1,2-Dichloroethane-d4	(88-110)
VDMC3	(TOL) = Toluene-d8	(85-115)
VDMC4	(BFB) = Bromofluorobenzene	(85-120)

Column to be used to flag recovery values

* Values outside of contract required QC limits

som13.06.03.A

2D - FORM II VOA-4

SOIL VOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0760 Mod. Ref No.: SDG No.: SM0760

Level: (LOW/MED) MED

	EPA SAMPLE NO.	VDMC1 (DBFM) #	VDMC2 (DCE) #	VDMC3 (TOL) #	VDMC4 (BFB) #				TOT OUT
01	LCS-71723	97	95	108	98				0
02	MB-71723	97	96	112	94				0
03	CS-S1	97	97	108	98				0
04	CS-S2	98	98	110	100				0
05	CS-N1	97	97	109	99				0
06	CS-N2	96	96	108	99				0

		QC LIMITS
VDMC1	(DBFM) Dibromofluoromethane	(76-128)
VDMC2	(DCE) = 1,2-Dichloroethane-d4	(88-110)
VDMC3	(TOL) = Toluene-d8	(85-115)
VDMC4	(BFB) = Bromofluorobenzene	(85-120)

Column to be used to flag recovery values

* Values outside of contract required QC limits

som13.06.03.A

3 - FORM III
SOIL LABORATORY CONTROL
SAMPLE RECOVERY

EPA SAMPLE NO.
LCS-71723

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0760 Mod. Ref No.: SDG No.: SM0760

Lab Sample ID: LCS-71723 LCS Lot No.:

Date Extracted: 05/17/2013 Date Analyzed (1): 05/17/2013

COMPOUND	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS %REC	#	QC. LIMITS REC.
Dichlorodifluoromethane	2500.0000	0.0000	2147.8982	86		35 - 135
Chloromethane	2500.0000	0.0000	2317.3191	93		50 - 130
Vinyl chloride	2500.0000	0.0000	2301.3424	92		60 - 125
Bromomethane	2500.0000	0.0000	2404.0385	96		30 - 160
Chloroethane	2500.0000	0.0000	2254.7141	90		40 - 155
Trichlorofluoromethane	2500.0000	0.0000	2371.1986	95		25 - 185
1,1-Dichloroethene	2500.0000	0.0000	2253.3729	90		65 - 135
Acetone	2500.0000	0.0000	2140.8781	86		20 - 160
Carbon disulfide	2500.0000	0.0000	2160.7181	86		45 - 160
Methylene chloride	2500.0000	0.0000	2152.9218	86		55 - 140
trans-1,2-Dichloroethene	2500.0000	0.0000	2267.4976	91		65 - 135
Methyl tert-butyl ether	2500.0000	0.0000	2309.6655	92		75 - 126
1,1-Dichloroethane	2500.0000	0.0000	2289.4551	92		75 - 125
2-Butanone	2500.0000	0.0000	2132.3663	85		30 - 160
cis-1,2-Dichloroethene	2500.0000	0.0000	2310.4485	92		65 - 125
Bromochloromethane	2500.0000	0.0000	2349.3888	94		70 - 125
Chloroform	2500.0000	0.0000	2364.2745	95		70 - 125
1,1,1-Trichloroethane	2500.0000	0.0000	2382.6046	95		70 - 135
Carbon tetrachloride	2500.0000	0.0000	2395.2330	96		65 - 135
1,2-Dichloroethane	2500.0000	0.0000	2379.1540	95		70 - 135
Benzene	2500.0000	0.0000	2317.2496	93		75 - 125
Trichloroethene	2500.0000	0.0000	2294.5479	92		75 - 125
1,2-Dichloropropane	2500.0000	0.0000	2250.0227	90		70 - 120
Bromodichloromethane	2500.0000	0.0000	2388.2958	96		70 - 130
cis-1,3-Dichloropropene	2500.0000	0.0000	2428.2168	97		70 - 125
4-Methyl-2-pentanone	2500.0000	0.0000	2101.0139	84		45 - 145
Toluene	2500.0000	0.0000	2338.3282	94		70 - 125
trans-1,3-Dichloropropene	2500.0000	0.0000	2400.5905	96		65 - 125
1,1,2-Trichloroethane	2500.0000	0.0000	2296.6658	92		60 - 125
Tetrachloroethene	2500.0000	0.0000	2591.1709	104		65 - 140
2-Hexanone	2500.0000	0.0000	2416.7847	97		45 - 145
Dibromochloromethane	2500.0000	0.0000	2726.9005	109		65 - 130
1,2-Dibromoethane	2500.0000	0.0000	2644.3654	106		70 - 125
Chlorobenzene	2500.0000	0.0000	2637.1767	105		75 - 125
Ethylbenzene	2500.0000	0.0000	2699.7416	108		75 - 125
m,p-Xylene	5000.0000	0.0000	5471.6571	109		80 - 125
o-Xylene	2500.0000	0.0000	2763.1418	111		75 - 125
Styrene	2500.0000	0.0000	2661.6406	106		75 - 125
Bromoform	2500.0000	0.0000	2717.0570	109		55 - 135
Isopropylbenzene	2500.0000	0.0000	2812.6529	113		75 - 130
1,1,2,2-Tetrachloroethane	2500.0000	0.0000	2506.5607	100		55 - 130
1,3-Dichlorobenzene	2500.0000	0.0000	2695.1252	108		70 - 125
1,4-Dichlorobenzene	2500.0000	0.0000	2611.1402	104		70 - 125
1,2-Dichlorobenzene	2500.0000	0.0000	2675.5406	107		75 - 120

3 - FORM III
SOIL LABORATORY CONTROL
SAMPLE RECOVERY

EPA SAMPLE NO.
LCS-71723

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0760 Mod. Ref No.: SDG No.: SM0760

Lab Sample ID: LCS-71723 LCS Lot No.:

Date Extracted: 05/17/2013 Date Analyzed (1): 05/17/2013

COMPOUND	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS %REC	#	QC. LIMITS REC.
1,2-Dibromo-3-chloropropan	2500.0000	0.0000	2495.8289	100		40 - 135
1,2,4-Trichlorobenzene	2500.0000	0.0000	2847.3684	114		65 - 130
1,2,3-Trichlorobenzene	2500.0000	0.0000	2778.6214	111		60 - 135
1,1,2-Trichloro-1,2,2-trif	2500.0000	0.0000	2243.4752	90		70 - 130
1,4-Dioxane	50000.0000	0.0000	42215.7829	84		70 - 130
Cyclohexane	2500.0000	0.0000	2291.8428	92		70 - 130
Methyl acetate	2500.0000	0.0000	2251.9143	90		70 - 130
Methylcyclohexane	2500.0000	0.0000	2337.3368	93		70 - 130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 0 out of 52 outside limits

COMMENTS:

3 - FORM III
SOIL LABORATORY CONTROL
SAMPLE RECOVERY

EPA SAMPLE NO.
LCS-71725

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0760 Mod. Ref No.: SDG No.: SM0760

Lab Sample ID: LCS-71725 LCS Lot No.:

Date Extracted: 05/17/2013 Date Analyzed (1): 05/17/2013

COMPOUND	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS %REC	#	QC. LIMITS REC.
Dichlorodifluoromethane	50.0000	0.0000	49.0101	98		35 - 135
Chloromethane	50.0000	0.0000	51.6923	103		50 - 130
Vinyl chloride	50.0000	0.0000	52.5391	105		60 - 125
Bromomethane	50.0000	0.0000	51.0574	102		30 - 160
Chloroethane	50.0000	0.0000	48.8150	98		40 - 155
Trichlorofluoromethane	50.0000	0.0000	52.2333	104		25 - 185
1,1-Dichloroethene	50.0000	0.0000	52.1671	104		65 - 135
Acetone	50.0000	0.0000	26.0649	52		20 - 160
Carbon disulfide	50.0000	0.0000	50.1691	100		45 - 160
Methylene chloride	50.0000	0.0000	48.3760	97		55 - 140
trans-1,2-Dichloroethene	50.0000	0.0000	49.9393	100		65 - 135
Methyl tert-butyl ether	50.0000	0.0000	49.3611	99		75 - 126
1,1-Dichloroethane	50.0000	0.0000	51.2980	103		75 - 125
2-Butanone	50.0000	0.0000	52.4885	105		30 - 160
cis-1,2-Dichloroethene	50.0000	0.0000	50.8777	102		65 - 125
Bromochloromethane	50.0000	0.0000	50.1814	100		70 - 125
Chloroform	50.0000	0.0000	53.2293	106		70 - 125
1,1,1-Trichloroethane	50.0000	0.0000	54.1453	108		70 - 135
Carbon tetrachloride	50.0000	0.0000	51.9394	104		65 - 135
1,2-Dichloroethane	50.0000	0.0000	54.5270	109		70 - 135
Benzene	50.0000	0.0000	51.8304	104		75 - 125
Trichloroethene	50.0000	0.0000	50.5714	101		75 - 125
1,2-Dichloropropane	50.0000	0.0000	51.9414	104		70 - 120
Bromodichloromethane	50.0000	0.0000	52.3375	105		70 - 130
cis-1,3-Dichloropropene	50.0000	0.0000	50.6937	101		70 - 125
4-Methyl-2-pentanone	50.0000	0.0000	58.3712	117		45 - 145
Toluene	50.0000	0.0000	52.4362	105		70 - 125
trans-1,3-Dichloropropene	50.0000	0.0000	51.7682	104		65 - 125
1,1,2-Trichloroethane	50.0000	0.0000	52.8789	106		60 - 125
Tetrachloroethene	50.0000	0.0000	53.6579	107		65 - 140
2-Hexanone	50.0000	0.0000	50.4821	101		45 - 145
Dibromochloromethane	50.0000	0.0000	50.5462	101		65 - 130
1,2-Dibromoethane	50.0000	0.0000	50.1583	100		70 - 125
Chlorobenzene	50.0000	0.0000	50.8963	102		75 - 125
Ethylbenzene	50.0000	0.0000	49.0457	98		75 - 125
m,p-Xylene	100.0000	0.0000	99.0006	99		80 - 125
o-Xylene	50.0000	0.0000	50.1478	100		75 - 125
Styrene	50.0000	0.0000	40.5238	81		75 - 125
Bromoform	50.0000	0.0000	51.5526	103		55 - 135
Isopropylbenzene	50.0000	0.0000	49.7820	100		75 - 130
1,1,2,2-Tetrachloroethane	50.0000	0.0000	51.2035	102		55 - 130
1,3-Dichlorobenzene	50.0000	0.0000	49.5222	99		70 - 125
1,4-Dichlorobenzene	50.0000	0.0000	50.6674	101		70 - 125
1,2-Dichlorobenzene	50.0000	0.0000	49.1940	98		75 - 120

3 - FORM III
SOIL LABORATORY CONTROL
SAMPLE RECOVERY

EPA SAMPLE NO.
LCS-71725

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0760 Mod. Ref No.: SDG No.: SM0760

Lab Sample ID: LCS-71725 LCS Lot No.:

Date Extracted: 05/17/2013 Date Analyzed (1): 05/17/2013

COMPOUND	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS %REC	#	QC. LIMITS REC.
1,2-Dibromo-3-chloropropan	50.0000	0.0000	49.9471	100		40 - 135
1,2,4-Trichlorobenzene	50.0000	0.0000	54.2017	108		65 - 130
1,2,3-Trichlorobenzene	50.0000	0.0000	56.2947	113		60 - 135
1,1,2-Trichloro-1,2,2-trif	50.0000	0.0000	53.6580	107		70 - 130
1,4-Dioxane	1000.0000	0.0000	1164.0280	116		70 - 130
Cyclohexane	50.0000	0.0000	52.9828	106		70 - 130
Methyl acetate	50.0000	0.0000	55.5738	111		70 - 130
Methylcyclohexane	50.0000	0.0000	52.9035	106		70 - 130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 0 out of 52 outside limits

COMMENTS:

4A - FORM IV VOA

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

MB-71725

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0760 Mod. Ref No.: SDG No.: SM0760

Lab File ID: V5O3525.D Lab Sample ID: MB-71725

Instrument ID: V5

Matrix: (SOIL/SED/WATER) SOIL Date Analyzed: 05/17/2013

Level: (TRACE or LOW/MED) LOW Time Analyzed: 11:35

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	LCS-71725	LCS-71725	V5O3523.D	10:42
02	CS-W2	M0760-02A	V5O3526.D	12:01
03	CS-B1	M0760-03A	V5O3527.D	12:27
04	CS-W1	M0760-01A	V5O3528.D	12:53

COMMENTS:

som13.06.03.A

4A - FORM IV VOA
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.
MB-71723

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0760 Mod. Ref No.: SDG No.: SM0760

Lab File ID: V8B9895.D Lab Sample ID: MB-71723

Instrument ID: V10

Matrix: (SOIL/SED/WATER) SOIL Date Analyzed: 05/17/2013

Level: (TRACE or LOW/MED) MED Time Analyzed: 10:01

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	LCS-71723	LCS-71723	V8B9893.D	9:06
02	CS-S1	M0760-04A	V8B9907.D	15:37
03	CS-S2	M0760-05A	V8B9908.D	16:05
04	CS-N1	M0760-06A	V8B9909.D	16:33
05	CS-N2	M0760-07A	V8B9910.D	17:02

COMMENTS:

som13.06.03.A

8A - FORM VIII VOA

VOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0760 Mod. Ref No.: SDG No.: SM0760

GC Column: DB-624 ID: 0.25 (mm) Init. Calib. Date(s): 05/13/2013 05/13/2013

EPA Sample No.(VSTD#####): VSTD050J5 Date Analyzed: 05/17/2013

Lab File ID (Standard): V5O3522.D Time Analyzed: 10:15

Instrument ID: V5 Heated Purge: (Y/N) Y

		IS1 (S1) AREA	#	RT	#	IS2 (S2) AREA	#	RT	#	IS3 (S3) AREA	#	RT	#
	12 HOUR STD	631647		5.54		392047		9.129		145085		12.299	
	UPPER LIMIT	1263294		6.04		784094		9.629		290170		12.799	
	LOWER LIMIT	315824		5.04		196024		8.629		72543		11.799	
	EPA SAMPLE NO.												
01	LCS-71725	683837		5.541		436490		9.129		166423		12.300	
02	MB-71725	667423		5.544		386272		9.121		133500		12.292	
03	CS-W2	662135		5.540		371551		9.128		134428		12.299	
04	CS-B1	673511		5.532		385843		9.121		131475		12.291	
05	CS-W1	828602		5.551		514407		9.128		205245		12.299	

IS1 () = Fluorobenzene
IS2 () = Chlorobenzene-d5
IS3 () = 1,4-Dichlorobenzene-d4
AREA UPPER LIMIT = 200% (Low-Medium Volatiles) and 140% (Trace Volatiles) of internal standard area
AREA LOWER LIMIT = 50% (Low-Medium Volatiles) and 60% (Trace Volatiles) of internal standard area
RT UPPER LIMIT = +0.50 (Low-Medium Volatiles) and +0.33 (Trace Volatiles) minutes of internal standard RT
RT LOWER LIMIT = -0.50 (Low-Medium Volatiles) and -0.33 (Trace Volatiles) minutes of internal standard RT

Column used to flag values outside contract required QC limits with an asterisk.

8A - FORM VIII VOA

VOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0760 Mod. Ref No.: SDG No.: SM0760

GC Column: DB-624 ID: 0.25 (mm) Init. Calib. Date(s): 05/08/2013 05/08/2013

EPA Sample No.(VSTD#####): VSTD05010G Date Analyzed: 05/17/2013

Lab File ID (Standard): V8B9891.D Time Analyzed: 7:51

Instrument ID: V10 Heated Purge: (Y/N) N

		IS1 (S1) AREA	#	RT	#	IS2 (S2) AREA	#	RT	#	IS3 (S3) AREA	#	RT	#
	12 HOUR STD	1770319		5.307		1412200		8.291		748144		10.783	
	UPPER LIMIT	3540638		5.807		2824400		8.791		1496288		11.283	
	LOWER LIMIT	885160		4.807		706100		7.791		374072		10.283	
	EPA SAMPLE NO.												
01	LCS-71723	1922348		5.307		1512127		8.294		777199		10.786	
02	MB-71723	1841602		5.307		1378071		8.294		619383		10.786	
03	CS-S1	1587080		5.304		1230654		8.294		590451		10.786	
04	CS-S2	1604613		5.304		1224629		8.294		588103		10.786	
05	CS-N1	1593164		5.304		1227624		8.294		592736		10.786	
06	CS-N2	1603369		5.304		1226749		8.294		589689		10.786	

IS1 () = Fluorobenzene
IS2 () = Chlorobenzene-d5
IS3 () = 1,4-Dichlorobenzene-d4
AREA UPPER LIMIT = 200% (Low-Medium Volatiles) and 140% (Trace Volatiles) of internal standard area
AREA LOWER LIMIT = 50% (Low-Medium Volatiles) and 60% (Trace Volatiles) of internal standard area
RT UPPER LIMIT = +0.50 (Low-Medium Volatiles) and +0.33 (Trace Volatiles) minutes of internal standard RT
RT LOWER LIMIT = -0.50 (Low-Medium Volatiles) and -0.33 (Trace Volatiles) minutes of internal standard RT

Column used to flag values outside contract required QC limits with an asterisk.

Report Date:
05-Jun-13 15:50

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

☑ Final Report
☐ Re-Issued Report
☐ Revised Report

Laboratory Report

ARCADIS U.S., Inc.
855 Route 146, Suite 210
Clifton Park, NY 12065

Work Order: M0791
Project : S&S Dry Cleaners & Dyers
Project #: 0266396.0000

Attn: Andy Vitolins

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
M0791-01	CS-B2	Soil	20-May-13 14:10	21-May-13 10:30
M0791-02	CS-B3	Soil	20-May-13 14:15	21-May-13 10:30
M0791-03	CS-E1	Soil	20-May-13 14:25	21-May-13 10:30
M0791-04	CS-S3	Soil	20-May-13 14:35	21-May-13 10:30
M0791-05	CS-N3	Soil	20-May-13 14:40	21-May-13 10:30

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. The results relate only to the samples(s) as received. This report may not be reproduced, except in full, without written approval from Spectrum Analytical.

All applicable NELAC or USEPA CLP requirments have been meet.

Spectrum Analytical (Rhode Island) is accredited under the National Environmental Laboratory Approval Program (NELAP) and DoD Environmental Laboratory Accreditation Program (ELAP), holds Organic and Inorganic contracts under the USEPA CLP Program and is certified under several states. The current list of our laboratory approvals and certifications is available on the Certifications page on our web site at www.spectrum-analytical.com.

Please contact the Laboratory or Technical Director at 401-732-3400 with any questions regarding the data contained in the laboratory report.

Department of Defense	N/A
Connecticut	PH-0153
Delaware	N/A
Florida	E87664
Maine	2007037
Massachusetts	M-RI907
New Hampshire	2631
New Jersey	RI001
New York	11522
North Carolina	581
Rhode Island	LAI00301
USDA	P330-08-00023
USEPA - ISM	EP-W-09-039
USEPA - SOM	EP-W-11-033

NELAP ACCREDITED TNI LABORATORY

LABORATORY ACCREDITATION BUREAU ACCREDITED
DoD ELAP
Certificate # L2247 Testing

Authorized by:

Yihai Ding
Laboratory Director



SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

* Data Summary Pack *

175 Metro Center Boulevard · Warwick, RI 02886-1755 · 401-732-3400 · FAX 401-732-3499
www.spectrum-analytical.com

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

New York State Department of Environmental Conservation
Sample Identification and Analytical Requirements Summary

Project Name : S&S Dry Cleaners & Dyers -- 0266396.0000 **SDG :** M0791

Customer Sample ID	Laboratory Sample ID	Analytical Requirements				
		MSVOA Method #	MSSEMI Method #	GC* Method #	ME	Other
CS-B2	M0791-01	SW8260_MED_S				
CS-B3	M0791-02	SW8260_MED_S				
CS-E1	M0791-03	SW8260_MED_S				
CS-S3	M0791-04	SW8260_MED_S				
CS-N3	M0791-05	SW8260_MED_S				

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

New York State Department of Environmental Conservation
Sample Preparation and Analysis Summary MSVOA

Project Name : S&S Dry Cleaners & Dyers -- 0266396.0000 **SDG :** M0791

Laboratory Sample ID	Matrix	Date Collected	Date Received By Lab	Date Extracted	Date Analyzed
SW8260_MED_S					
M0791-01A	SL	5/20/2013	5/21/2013	5/30/2013	5/30/2013
M0791-02A	SL	5/20/2013	5/21/2013	5/30/2013	5/30/2013
M0791-03A	SL	5/20/2013	5/21/2013	5/30/2013	5/30/2013
M0791-04A	SL	5/20/2013	5/21/2013	5/30/2013	5/30/2013
M0791-05A	SL	5/20/2013	5/21/2013	5/30/2013	5/30/2013

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

New York State Department of Environmental Conservation
Sample Preparation and Analysis Summary MSVOA

Project Name : S&S Dry Cleaners & Dyers -- 0266396.0000 **SDG :** M0791

Laboratory Sample ID	Matrix	Analytical Protocol	Extraction Method	Low/Medium Level	Dil/Conc Factor
SW8260_MED_S					
M0791-01A	SL	SW8260_MED_S	SW5035_MED_PR	MED	1
M0791-02A	SL	SW8260_MED_S	SW5035_MED_PR	MED	10
M0791-03A	SL	SW8260_MED_S	SW5035_MED_PR	MED	5
M0791-04A	SL	SW8260_MED_S	SW5035_MED_PR	MED	1
M0791-05A	SL	SW8260_MED_S	SW5035_MED_PR	MED	1

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

WorkOrder: M0791

Client ID: MALCOLM_LATHAM
Project: S&S Dry Cleaners & Dyers
WO Name: S&S Dry Cleaners & Dyers
Location: ARCADIS_COHOES, 0266396.0000
Comments: N/A

Case:
SDG:
PO: 00266396.0000

HC Due: 06/06/13
Fax Due:
Fax Report: ☐

Report Level: ASP-B
Special Program:
EDD: EQUIIS_4_NYSDEC

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
M0791-01A	CS-B2	05/20/2013 14:10	05/21/2013	Soil	PMoist	/					VOA
M0791-01A	CS-B2	05/20/2013 14:10	05/21/2013	Soil	SW8260_LOW_S	/ SOM List		Y		Y	VOA
M0791-01A	CS-B2	05/20/2013 14:10	05/21/2013	Soil	SW8260_MED_S	/ SOM List				Y	VOA
M0791-02A	CS-B3	05/20/2013 14:15	05/21/2013	Soil	PMoist	/					VOA
M0791-02A	CS-B3	05/20/2013 14:15	05/21/2013	Soil	SW8260_LOW_S	/ SOM List		Y		Y	VOA
M0791-02A	CS-B3	05/20/2013 14:15	05/21/2013	Soil	SW8260_MED_S	/ SOM List				Y	VOA
M0791-03A	CS-E1	05/20/2013 14:25	05/21/2013	Soil	PMoist	/					VOA
M0791-03A	CS-E1	05/20/2013 14:25	05/21/2013	Soil	SW8260_LOW_S	/ SOM List		Y		Y	VOA
M0791-03A	CS-E1	05/20/2013 14:25	05/21/2013	Soil	SW8260_MED_S	/ SOM List				Y	VOA
M0791-04A	CS-S3	05/20/2013 14:35	05/21/2013	Soil	PMoist	/					VOA
M0791-04A	CS-S3	05/20/2013 14:35	05/21/2013	Soil	SW8260_LOW_S	/ SOM List		Y		Y	VOA
M0791-04A	CS-S3	05/20/2013 14:35	05/21/2013	Soil	SW8260_MED_S	/ SOM List				Y	VOA
M0791-05A	CS-N3	05/20/2013 14:40	05/21/2013	Soil	PMoist	/					VOA
M0791-05A	CS-N3	05/20/2013 14:40	05/21/2013	Soil	SW8260_LOW_S	/ SOM List		Y		Y	VOA
M0791-05A	CS-N3	05/20/2013 14:40	05/21/2013	Soil	SW8260_MED_S	/ SOM List				Y	VOA

HF = Fraction logged in but all tests have been placed on hold

HT = Test logged in but has been placed on hold

05/30/2013 11:20

Lab Client Rep: Agnes R Huntley

* Volatiles *

REPORT NARRATIVE

Spectrum Analytical, Inc. Featuring Hanibal Technology, RI Division.

Client : ARCADIS U.S., Inc.

Project: S&S Dry Cleaners & Dyers

Laboratory Workorder / SDG #: M0791

SW846 8260C, VOC by GC-MS

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code: SW846 8260C

IV. PREPARATION

Soil Samples were prepared following procedures in laboratory test code: SW5035

V. INSTRUMENTATION

The following instrumentation was used

Instrument Code: V5
Instrument Type: GCMS-VOA

Description: HP6890 / HP6890
Manufacturer: Hewlett-Packard
Model: 6890 / 6890

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

Surrogate standard percent recoveries were within the QC limits.

D. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits.

Replicate RPDs were within the advisory QC limits.

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

No client-requested MS/MSD analyses were included in this SDG.

E. Internal Standards:

Internal standard peak areas were within the QC limits.

F. Dilutions:

All samples in this SDG were analyzed at medium level due to high level of target compound(s).

The following samples were analyzed at dilution in addition to the medium level analysis:

CS-B3 (M0791-02A) : Dilution Factor: 10
CS-E1 (M0791-03A) : Dilution Factor: 5

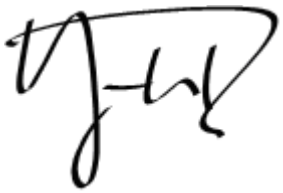
G. Samples:

No other unusual occurrences were noted during sample analysis.

H. Manual Integration

No manual integrations were performed on any sample or standard.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.



Signed:_____ _____

Date:_____6/5/2013_____

Data Flag/Qualifiers:

U Not Detected. This compound was analyzed-for but not detected. For most analyses the reporting limit (lowest standard concentration) is the value listed. For Department of Defense programs, this is the Limit of Detection (LOD).

J This flag indicates an estimated value due to either
- the compound was detected below the reporting limit, or
- estimated concentration for Tentatively Identified Compound

B This flag indicates the compound was also detected in the associated Method Blank. The B flag has an alternative meaning for Inorganics analyses reported using CLP ILM-type metals forms, indicating a "trace" concentration below the reporting limit and equal to or above the detection limit.

D For Organics analysis, this flag indicates the compound concentration was obtained from a secondary dilution analysis

E This flag indicates the compound concentration exceeded the Calibration Range. The E flag has an alternative meaning for Inorganics analyses reported using CLP metals forms, indicating an estimated concentration due to the presence of interferences, as determined by the serial dilution analysis.

P This flag is used for pesticides/PCB/herbicide compound when there is a greater than 40% difference for detected concentration between the two GC columns used for primary and confirmation analyses. This difference typically indicates an interference, causing one value to be unusually high. The **lower** of the two values is generally reported on the Form 1, and both values reported on the Form 10.

A Used to flag semivolatile organic Tentatively Identified Compound library search results for compounds identified as aldol condensation byproducts.

N Used to flag results for volatile and semivolatile Organics analysis Tentatively Identified Compounds where an analyte has passed the identification criteria, and is considered to be positively identified. For Inorganics analysis the N flag indicates the matrix spike recovery falls outside of the control limit.

* For Inorganics analysis the * flag indicates Relative Percent Difference for duplicate analyses is outside of the control limit.

Sample ID Suffixes

DL Diluted analysis. The sample was diluted and reanalyzed. The DL may be followed by a digit if more than one diluted reanalysis is provided. The DL suffix is not attached to an analysis initially performed at dilution, only to reanalyses performed at dilution

RE Reanalysis. Appended to the client sample ID to indicate a reextraction and reanalysis or a reanalysis of the original sample extract.

RA Reanalysis. Appended to the laboratory sample ID indicates a reanalysis of the original sample extract.

RX Reextraction. Appended to the laboratory sample ID indicates a reextraction of the sample.

MS Matrix Spike.

MSD Matrix Spike Duplicate

DUP Duplicate analysis

SD Serial Dilution

PS Post-digestion or Post-distillation spike. For metals or inorganic analyses

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CS-B2

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0791 Mod. Ref No.: SDG No.: SM0791

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M0791-01A

Sample wt/vol: 5.10 (g/mL) G Lab File ID: V5O3818.D

Level: (TRACE/LOW/MED) MED Date Received: 05/21/2013

% Moisture: not dec. 11 Date Analyzed: 05/30/2013

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: 100.00 (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	310	U
74-87-3	Chloromethane	310	U
75-01-4	Vinyl chloride	310	U
74-83-9	Bromomethane	310	U
75-00-3	Chloroethane	310	U
75-69-4	Trichlorofluoromethane	310	U
75-35-4	1,1-Dichloroethene	310	U
67-64-1	Acetone	310	U
75-15-0	Carbon disulfide	310	U
75-09-2	Methylene chloride	310	U
156-60-5	trans-1,2-Dichloroethene	310	U
1634-04-4	Methyl tert-butyl ether	310	U
75-34-3	1,1-Dichloroethane	310	U
78-93-3	2-Butanone	310	U
156-59-2	cis-1,2-Dichloroethene	310	U
74-97-5	Bromochloromethane	310	U
67-66-3	Chloroform	310	U
71-55-6	1,1,1-Trichloroethane	310	U
56-23-5	Carbon tetrachloride	310	U
107-06-2	1,2-Dichloroethane	310	U
71-43-2	Benzene	310	U
79-01-6	Trichloroethene	310	U
78-87-5	1,2-Dichloropropane	310	U
75-27-4	Bromodichloromethane	310	U
10061-01-5	cis-1,3-Dichloropropene	310	U
108-10-1	4-Methyl-2-pentanone	310	U
108-88-3	Toluene	310	U
10061-02-6	trans-1,3-Dichloropropene	310	U
79-00-5	1,1,2-Trichloroethane	310	U
127-18-4	Tetrachloroethene	5200	
591-78-6	2-Hexanone	310	U
124-48-1	Dibromochloromethane	310	U
106-93-4	1,2-Dibromoethane	310	U
108-90-7	Chlorobenzene	310	U
100-41-4	Ethylbenzene	310	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CS-B2

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0791 Mod. Ref No.: SDG No.: SM0791

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M0791-01A

Sample wt/vol: 5.10 (g/mL) G Lab File ID: V5O3818.D

Level: (TRACE/LOW/MED) MED Date Received: 05/21/2013

% Moisture: not dec. 11 Date Analyzed: 05/30/2013

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: 100.00 (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
179601-23-1	m,p-Xylene	310	U
95-47-6	o-Xylene	310	U
100-42-5	Styrene	310	U
75-25-2	Bromoform	310	U
98-82-8	Isopropylbenzene	310	U
79-34-5	1,1,2,2-Tetrachloroethane	310	U
541-73-1	1,3-Dichlorobenzene	310	U
106-46-7	1,4-Dichlorobenzene	310	U
95-50-1	1,2-Dichlorobenzene	310	U
96-12-8	1,2-Dibromo-3-chloropropane	310	U
120-82-1	1,2,4-Trichlorobenzene	310	U
87-61-6	1,2,3-Trichlorobenzene	310	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	310	U
123-91-1	1,4-Dioxane	6200	U
110-82-7	Cyclohexane	310	U
79-20-9	Methyl acetate	310	U
108-87-2	Methylcyclohexane	310	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CS-B3

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0791 Mod. Ref No.: SDG No.: SM0791

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M0791-02A

Sample wt/vol: 5.10 (g/mL) G Lab File ID: V5O3819.D

Level: (TRACE/LOW/MED) MED Date Received: 05/21/2013

% Moisture: not dec. 25 Date Analyzed: 05/30/2013

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 10.0

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: 100.00 (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	4100	U
74-87-3	Chloromethane	4100	U
75-01-4	Vinyl chloride	4100	U
74-83-9	Bromomethane	4100	U
75-00-3	Chloroethane	4100	U
75-69-4	Trichlorofluoromethane	4100	U
75-35-4	1,1-Dichloroethene	4100	U
67-64-1	Acetone	4100	U
75-15-0	Carbon disulfide	4100	U
75-09-2	Methylene chloride	4100	U
156-60-5	trans-1,2-Dichloroethene	4100	U
1634-04-4	Methyl tert-butyl ether	4100	U
75-34-3	1,1-Dichloroethane	4100	U
78-93-3	2-Butanone	4100	U
156-59-2	cis-1,2-Dichloroethene	4100	U
74-97-5	Bromochloromethane	4100	U
67-66-3	Chloroform	4100	U
71-55-6	1,1,1-Trichloroethane	4100	U
56-23-5	Carbon tetrachloride	4100	U
107-06-2	1,2-Dichloroethane	4100	U
71-43-2	Benzene	4100	U
79-01-6	Trichloroethene	4100	U
78-87-5	1,2-Dichloropropane	4100	U
75-27-4	Bromodichloromethane	4100	U
10061-01-5	cis-1,3-Dichloropropene	4100	U
108-10-1	4-Methyl-2-pentanone	4100	U
108-88-3	Toluene	4100	U
10061-02-6	trans-1,3-Dichloropropene	4100	U
79-00-5	1,1,2-Trichloroethane	4100	U
127-18-4	Tetrachloroethene	67000	
591-78-6	2-Hexanone	4100	U
124-48-1	Dibromochloromethane	4100	U
106-93-4	1,2-Dibromoethane	4100	U
108-90-7	Chlorobenzene	4100	U
100-41-4	Ethylbenzene	4100	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CS-B3

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0791 Mod. Ref No.: SDG No.: SM0791

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M0791-02A

Sample wt/vol: 5.10 (g/mL) G Lab File ID: V5O3819.D

Level: (TRACE/LOW/MED) MED Date Received: 05/21/2013

% Moisture: not dec. 25 Date Analyzed: 05/30/2013

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 10.0

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: 100.00 (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
179601-23-1	m,p-Xylene	4100	U
95-47-6	o-Xylene	4100	U
100-42-5	Styrene	4100	U
75-25-2	Bromoform	4100	U
98-82-8	Isopropylbenzene	4100	U
79-34-5	1,1,2,2-Tetrachloroethane	4100	U
541-73-1	1,3-Dichlorobenzene	4100	U
106-46-7	1,4-Dichlorobenzene	4100	U
95-50-1	1,2-Dichlorobenzene	4100	U
96-12-8	1,2-Dibromo-3-chloropropane	4100	U
120-82-1	1,2,4-Trichlorobenzene	4100	U
87-61-6	1,2,3-Trichlorobenzene	4100	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	4100	U
123-91-1	1,4-Dioxane	82000	U
110-82-7	Cyclohexane	4100	U
79-20-9	Methyl acetate	4100	U
108-87-2	Methylcyclohexane	4100	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CS-E1

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0791 Mod. Ref No.: SDG No.: SM0791

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M0791-03A

Sample wt/vol: 5.00 (g/mL) G Lab File ID: V5O3820.D

Level: (TRACE/LOW/MED) MED Date Received: 05/21/2013

% Moisture: not dec. 26 Date Analyzed: 05/30/2013

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 5.0

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: 100.00 (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	2100	U
74-87-3	Chloromethane	2100	U
75-01-4	Vinyl chloride	2100	U
74-83-9	Bromomethane	2100	U
75-00-3	Chloroethane	2100	U
75-69-4	Trichlorofluoromethane	2100	U
75-35-4	1,1-Dichloroethene	2100	U
67-64-1	Acetone	2100	U
75-15-0	Carbon disulfide	2100	U
75-09-2	Methylene chloride	2100	U
156-60-5	trans-1,2-Dichloroethene	2100	U
1634-04-4	Methyl tert-butyl ether	2100	U
75-34-3	1,1-Dichloroethane	2100	U
78-93-3	2-Butanone	2100	U
156-59-2	cis-1,2-Dichloroethene	2100	U
74-97-5	Bromochloromethane	2100	U
67-66-3	Chloroform	2100	U
71-55-6	1,1,1-Trichloroethane	2100	U
56-23-5	Carbon tetrachloride	2100	U
107-06-2	1,2-Dichloroethane	2100	U
71-43-2	Benzene	2100	U
79-01-6	Trichloroethene	2100	U
78-87-5	1,2-Dichloropropane	2100	U
75-27-4	Bromodichloromethane	2100	U
10061-01-5	cis-1,3-Dichloropropene	2100	U
108-10-1	4-Methyl-2-pentanone	2100	U
108-88-3	Toluene	2100	U
10061-02-6	trans-1,3-Dichloropropene	2100	U
79-00-5	1,1,2-Trichloroethane	2100	U
127-18-4	Tetrachloroethene	39000	
591-78-6	2-Hexanone	2100	U
124-48-1	Dibromochloromethane	2100	U
106-93-4	1,2-Dibromoethane	2100	U
108-90-7	Chlorobenzene	2100	U
100-41-4	Ethylbenzene	2100	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CS-E1

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0791 Mod. Ref No.: SDG No.: SM0791

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M0791-03A

Sample wt/vol: 5.00 (g/mL) G Lab File ID: V5O3820.D

Level: (TRACE/LOW/MED) MED Date Received: 05/21/2013

% Moisture: not dec. 26 Date Analyzed: 05/30/2013

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 5.0

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: 100.00 (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
179601-23-1	m,p-Xylene	2100	U
95-47-6	o-Xylene	2100	U
100-42-5	Styrene	2100	U
75-25-2	Bromoform	2100	U
98-82-8	Isopropylbenzene	2100	U
79-34-5	1,1,2,2-Tetrachloroethane	2100	U
541-73-1	1,3-Dichlorobenzene	2100	U
106-46-7	1,4-Dichlorobenzene	2100	U
95-50-1	1,2-Dichlorobenzene	2100	U
96-12-8	1,2-Dibromo-3-chloropropane	2100	U
120-82-1	1,2,4-Trichlorobenzene	2100	U
87-61-6	1,2,3-Trichlorobenzene	2100	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	2100	U
123-91-1	1,4-Dioxane	42000	U
110-82-7	Cyclohexane	2100	U
79-20-9	Methyl acetate	2100	U
108-87-2	Methylcyclohexane	2100	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CS-S3

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0791 Mod. Ref No.: SDG No.: SM0791

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M0791-04A

Sample wt/vol: 5.20 (g/mL) G Lab File ID: V5O3821.D

Level: (TRACE/LOW/MED) MED Date Received: 05/21/2013

% Moisture: not dec. 24 Date Analyzed: 05/30/2013

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: 100.00 (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	400	U
74-87-3	Chloromethane	400	U
75-01-4	Vinyl chloride	400	U
74-83-9	Bromomethane	400	U
75-00-3	Chloroethane	400	U
75-69-4	Trichlorofluoromethane	400	U
75-35-4	1,1-Dichloroethene	400	U
67-64-1	Acetone	400	U
75-15-0	Carbon disulfide	400	U
75-09-2	Methylene chloride	400	U
156-60-5	trans-1,2-Dichloroethene	400	U
1634-04-4	Methyl tert-butyl ether	400	U
75-34-3	1,1-Dichloroethane	400	U
78-93-3	2-Butanone	400	U
156-59-2	cis-1,2-Dichloroethene	400	U
74-97-5	Bromochloromethane	400	U
67-66-3	Chloroform	400	U
71-55-6	1,1,1-Trichloroethane	400	U
56-23-5	Carbon tetrachloride	400	U
107-06-2	1,2-Dichloroethane	400	U
71-43-2	Benzene	400	U
79-01-6	Trichloroethene	400	U
78-87-5	1,2-Dichloropropane	400	U
75-27-4	Bromodichloromethane	400	U
10061-01-5	cis-1,3-Dichloropropene	400	U
108-10-1	4-Methyl-2-pentanone	400	U
108-88-3	Toluene	400	U
10061-02-6	trans-1,3-Dichloropropene	400	U
79-00-5	1,1,2-Trichloroethane	400	U
127-18-4	Tetrachloroethene	2700	
591-78-6	2-Hexanone	400	U
124-48-1	Dibromochloromethane	400	U
106-93-4	1,2-Dibromoethane	400	U
108-90-7	Chlorobenzene	400	U
100-41-4	Ethylbenzene	400	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CS-S3

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0791 Mod. Ref No.: SDG No.: SM0791

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M0791-04A

Sample wt/vol: 5.20 (g/mL) G Lab File ID: V5O3821.D

Level: (TRACE/LOW/MED) MED Date Received: 05/21/2013

% Moisture: not dec. 24 Date Analyzed: 05/30/2013

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: 100.00 (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
179601-23-1	m,p-Xylene	400	U
95-47-6	o-Xylene	400	U
100-42-5	Styrene	400	U
75-25-2	Bromoform	400	U
98-82-8	Isopropylbenzene	400	U
79-34-5	1,1,2,2-Tetrachloroethane	400	U
541-73-1	1,3-Dichlorobenzene	400	U
106-46-7	1,4-Dichlorobenzene	400	U
95-50-1	1,2-Dichlorobenzene	400	U
96-12-8	1,2-Dibromo-3-chloropropane	400	U
120-82-1	1,2,4-Trichlorobenzene	400	U
87-61-6	1,2,3-Trichlorobenzene	400	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	400	U
123-91-1	1,4-Dioxane	8000	U
110-82-7	Cyclohexane	400	U
79-20-9	Methyl acetate	400	U
108-87-2	Methylcyclohexane	400	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CS-N3

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0791 Mod. Ref No.: SDG No.: SM0791

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M0791-05A

Sample wt/vol: 5.10 (g/mL) G Lab File ID: V5O3822.D

Level: (TRACE/LOW/MED) MED Date Received: 05/21/2013

% Moisture: not dec. 20 Date Analyzed: 05/30/2013

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: 100.00 (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	370	U
74-87-3	Chloromethane	370	U
75-01-4	Vinyl chloride	370	U
74-83-9	Bromomethane	370	U
75-00-3	Chloroethane	370	U
75-69-4	Trichlorofluoromethane	370	U
75-35-4	1,1-Dichloroethene	370	U
67-64-1	Acetone	370	U
75-15-0	Carbon disulfide	370	U
75-09-2	Methylene chloride	370	U
156-60-5	trans-1,2-Dichloroethene	370	U
1634-04-4	Methyl tert-butyl ether	370	U
75-34-3	1,1-Dichloroethane	370	U
78-93-3	2-Butanone	370	U
156-59-2	cis-1,2-Dichloroethene	370	U
74-97-5	Bromochloromethane	370	U
67-66-3	Chloroform	370	U
71-55-6	1,1,1-Trichloroethane	370	U
56-23-5	Carbon tetrachloride	370	U
107-06-2	1,2-Dichloroethane	370	U
71-43-2	Benzene	370	U
79-01-6	Trichloroethene	370	U
78-87-5	1,2-Dichloropropane	370	U
75-27-4	Bromodichloromethane	370	U
10061-01-5	cis-1,3-Dichloropropene	370	U
108-10-1	4-Methyl-2-pentanone	370	U
108-88-3	Toluene	370	U
10061-02-6	trans-1,3-Dichloropropene	370	U
79-00-5	1,1,2-Trichloroethane	370	U
127-18-4	Tetrachloroethene	2700	
591-78-6	2-Hexanone	370	U
124-48-1	Dibromochloromethane	370	U
106-93-4	1,2-Dibromoethane	370	U
108-90-7	Chlorobenzene	370	U
100-41-4	Ethylbenzene	370	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CS-N3

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0791 Mod. Ref No.: SDG No.: SM0791

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: M0791-05A

Sample wt/vol: 5.10 (g/mL) G Lab File ID: V5O3822.D

Level: (TRACE/LOW/MED) MED Date Received: 05/21/2013

% Moisture: not dec. 20 Date Analyzed: 05/30/2013

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: 100.00 (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
179601-23-1	m,p-Xylene	370	U
95-47-6	o-Xylene	370	U
100-42-5	Styrene	370	U
75-25-2	Bromoform	370	U
98-82-8	Isopropylbenzene	370	U
79-34-5	1,1,2,2-Tetrachloroethane	370	U
541-73-1	1,3-Dichlorobenzene	370	U
106-46-7	1,4-Dichlorobenzene	370	U
95-50-1	1,2-Dichlorobenzene	370	U
96-12-8	1,2-Dibromo-3-chloropropane	370	U
120-82-1	1,2,4-Trichlorobenzene	370	U
87-61-6	1,2,3-Trichlorobenzene	370	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	370	U
123-91-1	1,4-Dioxane	7300	U
110-82-7	Cyclohexane	370	U
79-20-9	Methyl acetate	370	U
108-87-2	Methylcyclohexane	370	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MB-71954

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0791 Mod. Ref No.: SDG No.: SM0791

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: MB-71954

Sample wt/vol: 5.00 (g/mL) G Lab File ID: V5O3813.D

Level: (TRACE/LOW/MED) MED Date Received:

% Moisture: not dec. 0.0 Date Analyzed: 05/30/2013

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: 100.00 (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	250	U
74-87-3	Chloromethane	250	U
75-01-4	Vinyl chloride	250	U
74-83-9	Bromomethane	250	U
75-00-3	Chloroethane	250	U
75-69-4	Trichlorofluoromethane	250	U
75-35-4	1,1-Dichloroethene	250	U
67-64-1	Acetone	250	U
75-15-0	Carbon disulfide	250	U
75-09-2	Methylene chloride	250	U
156-60-5	trans-1,2-Dichloroethene	250	U
1634-04-4	Methyl tert-butyl ether	250	U
75-34-3	1,1-Dichloroethane	250	U
78-93-3	2-Butanone	250	U
156-59-2	cis-1,2-Dichloroethene	250	U
74-97-5	Bromochloromethane	250	U
67-66-3	Chloroform	250	U
71-55-6	1,1,1-Trichloroethane	250	U
56-23-5	Carbon tetrachloride	250	U
107-06-2	1,2-Dichloroethane	250	U
71-43-2	Benzene	250	U
79-01-6	Trichloroethene	250	U
78-87-5	1,2-Dichloropropane	250	U
75-27-4	Bromodichloromethane	250	U
10061-01-5	cis-1,3-Dichloropropene	250	U
108-10-1	4-Methyl-2-pentanone	250	U
108-88-3	Toluene	250	U
10061-02-6	trans-1,3-Dichloropropene	250	U
79-00-5	1,1,2-Trichloroethane	250	U
127-18-4	Tetrachloroethene	250	U
591-78-6	2-Hexanone	250	U
124-48-1	Dibromochloromethane	250	U
106-93-4	1,2-Dibromoethane	250	U
108-90-7	Chlorobenzene	250	U
100-41-4	Ethylbenzene	250	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MB-71954

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0791 Mod. Ref No.: SDG No.: SM0791

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: MB-71954

Sample wt/vol: 5.00 (g/mL) G Lab File ID: V5O3813.D

Level: (TRACE/LOW/MED) MED Date Received:

% Moisture: not dec. 0.0 Date Analyzed: 05/30/2013

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: 100.00 (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
179601-23-1	m,p-Xylene	250	U
95-47-6	o-Xylene	250	U
100-42-5	Styrene	250	U
75-25-2	Bromoform	250	U
98-82-8	Isopropylbenzene	250	U
79-34-5	1,1,2,2-Tetrachloroethane	250	U
541-73-1	1,3-Dichlorobenzene	250	U
106-46-7	1,4-Dichlorobenzene	250	U
95-50-1	1,2-Dichlorobenzene	250	U
96-12-8	1,2-Dibromo-3-chloropropane	250	U
120-82-1	1,2,4-Trichlorobenzene	250	U
87-61-6	1,2,3-Trichlorobenzene	250	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	250	U
123-91-1	1,4-Dioxane	5000	U
110-82-7	Cyclohexane	250	U
79-20-9	Methyl acetate	250	U
108-87-2	Methylcyclohexane	250	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCS-71954

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0791 Mod. Ref No.: SDG No.: SM0791

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: LCS-71954

Sample wt/vol: 5.00 (g/mL) G Lab File ID: V5O3811.D

Level: (TRACE/LOW/MED) MED Date Received:

% Moisture: not dec. 0.0 Date Analyzed: 05/30/2013

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: 100.00 (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	2100	
74-87-3	Chloromethane	2100	
75-01-4	Vinyl chloride	2100	
74-83-9	Bromomethane	2200	
75-00-3	Chloroethane	2100	
75-69-4	Trichlorofluoromethane	2100	
75-35-4	1,1-Dichloroethene	2200	
67-64-1	Acetone	1800	
75-15-0	Carbon disulfide	2100	
75-09-2	Methylene chloride	2000	
156-60-5	trans-1,2-Dichloroethene	2100	
1634-04-4	Methyl tert-butyl ether	2100	
75-34-3	1,1-Dichloroethane	2200	
78-93-3	2-Butanone	2100	
156-59-2	cis-1,2-Dichloroethene	2000	
74-97-5	Bromochloromethane	2200	
67-66-3	Chloroform	2100	
71-55-6	1,1,1-Trichloroethane	2100	
56-23-5	Carbon tetrachloride	2200	
107-06-2	1,2-Dichloroethane	2100	
71-43-2	Benzene	2200	
79-01-6	Trichloroethene	2200	
78-87-5	1,2-Dichloropropane	2100	
75-27-4	Bromodichloromethane	2200	
10061-01-5	cis-1,3-Dichloropropene	2200	
108-10-1	4-Methyl-2-pentanone	2200	
108-88-3	Toluene	2200	
10061-02-6	trans-1,3-Dichloropropene	2200	
79-00-5	1,1,2-Trichloroethane	2100	
127-18-4	Tetrachloroethene	2200	
591-78-6	2-Hexanone	2200	
124-48-1	Dibromochloromethane	2200	
106-93-4	1,2-Dibromoethane	2100	
108-90-7	Chlorobenzene	2200	
100-41-4	Ethylbenzene	2100	

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCS-71954

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0791 Mod. Ref No.: SDG No.: SM0791

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: LCS-71954

Sample wt/vol: 5.00 (g/mL) G Lab File ID: V5O3811.D

Level: (TRACE/LOW/MED) MED Date Received:

% Moisture: not dec. 0.0 Date Analyzed: 05/30/2013

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: 100.00 (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
179601-23-1	m,p-Xylene	4300	
95-47-6	o-Xylene	2200	
100-42-5	Styrene	2300	
75-25-2	Bromoform	2300	
98-82-8	Isopropylbenzene	2200	
79-34-5	1,1,2,2-Tetrachloroethane	2100	
541-73-1	1,3-Dichlorobenzene	2200	
106-46-7	1,4-Dichlorobenzene	2200	
95-50-1	1,2-Dichlorobenzene	2200	
96-12-8	1,2-Dibromo-3-chloropropane	1800	
120-82-1	1,2,4-Trichlorobenzene	2200	
87-61-6	1,2,3-Trichlorobenzene	2300	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	2300	
123-91-1	1,4-Dioxane	43000	
110-82-7	Cyclohexane	2100	
79-20-9	Methyl acetate	2000	
108-87-2	Methylcyclohexane	2200	

2D - FORM II VOA-4

SOIL VOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0791 Mod. Ref No.: SDG No.: SM0791

Level: (LOW/MED) MED

	EPA SAMPLE NO.	VDMC1 (DBFM) #	VDMC2 (DCE) #	VDMC3 (TOL) #	VDMC4 (BFB) #				TOT OUT
01	LCS-71954	100	102	98	99				0
02	MB-71954	97	98	98	98				0
03	CS-B2	99	102	97	99				0
04	CS-B3	99	99	98	100				0
05	CS-E1	99	104	98	96				0
06	CS-S3	100	105	100	99				0
07	CS-N3	96	98	100	100				0

		QC LIMITS
VDMC1	(DBFM) Dibromofluoromethane	(76-128)
VDMC2	(DCE) = 1,2-Dichloroethane-d4	(88-110)
VDMC3	(TOL) = Toluene-d8	(85-115)
VDMC4	(BFB) = Bromofluorobenzene	(85-120)

Column to be used to flag recovery values

* Values outside of contract required QC limits

som13.06.03.A

3 - FORM III
SOIL LABORATORY CONTROL
SAMPLE RECOVERY

EPA SAMPLE NO.
LCS-71954

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0791 Mod. Ref No.: SDG No.: SM0791

Lab Sample ID: LCS-71954 LCS Lot No.:

Date Extracted: 05/30/2013 Date Analyzed (1): 05/30/2013

COMPOUND	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS %REC	#	QC. LIMITS REC.
Dichlorodifluoromethane	2500.0000	0.0000	2125.6897	85		35 - 135
Chloromethane	2500.0000	0.0000	2125.4629	85		50 - 130
Vinyl chloride	2500.0000	0.0000	2109.6811	84		60 - 125
Bromomethane	2500.0000	0.0000	2192.6624	88		30 - 160
Chloroethane	2500.0000	0.0000	2091.9514	84		40 - 155
Trichlorofluoromethane	2500.0000	0.0000	2147.7940	86		25 - 185
1,1-Dichloroethene	2500.0000	0.0000	2224.1706	89		65 - 135
Acetone	2500.0000	0.0000	1768.8588	71		20 - 160
Carbon disulfide	2500.0000	0.0000	2116.0269	85		45 - 160
Methylene chloride	2500.0000	0.0000	2041.1467	82		55 - 140
trans-1,2-Dichloroethene	2500.0000	0.0000	2136.3458	85		65 - 135
Methyl tert-butyl ether	2500.0000	0.0000	2126.5233	85		75 - 126
1,1-Dichloroethane	2500.0000	0.0000	2150.6796	86		75 - 125
2-Butanone	2500.0000	0.0000	2124.3849	85		30 - 160
cis-1,2-Dichloroethene	2500.0000	0.0000	2048.4138	82		65 - 125
Bromochloromethane	2500.0000	0.0000	2156.4790	86		70 - 125
Chloroform	2500.0000	0.0000	2123.9072	85		70 - 125
1,1,1-Trichloroethane	2500.0000	0.0000	2060.0181	82		70 - 135
Carbon tetrachloride	2500.0000	0.0000	2156.3509	86		65 - 135
1,2-Dichloroethane	2500.0000	0.0000	2112.0716	84		70 - 135
Benzene	2500.0000	0.0000	2168.4523	87		75 - 125
Trichloroethene	2500.0000	0.0000	2161.7015	86		75 - 125
1,2-Dichloropropane	2500.0000	0.0000	2125.1069	85		70 - 120
Bromodichloromethane	2500.0000	0.0000	2181.7792	87		70 - 130
cis-1,3-Dichloropropene	2500.0000	0.0000	2184.2367	87		70 - 125
4-Methyl-2-pentanone	2500.0000	0.0000	2152.2894	86		45 - 145
Toluene	2500.0000	0.0000	2189.9417	88		70 - 125
trans-1,3-Dichloropropene	2500.0000	0.0000	2227.6615	89		65 - 125
1,1,2-Trichloroethane	2500.0000	0.0000	2069.0615	83		60 - 125
Tetrachloroethene	2500.0000	0.0000	2153.0026	86		65 - 140
2-Hexanone	2500.0000	0.0000	2151.4989	86		45 - 145
Dibromochloromethane	2500.0000	0.0000	2231.2624	89		65 - 130
1,2-Dibromoethane	2500.0000	0.0000	2131.8857	85		70 - 125
Chlorobenzene	2500.0000	0.0000	2173.1335	87		75 - 125
Ethylbenzene	2500.0000	0.0000	2136.1774	85		75 - 125
m,p-Xylene	5000.0000	0.0000	4265.2294	85		80 - 125
o-Xylene	2500.0000	0.0000	2193.7792	88		75 - 125
Styrene	2500.0000	0.0000	2281.0876	91		75 - 125
Bromoform	2500.0000	0.0000	2272.8045	91		55 - 135
Isopropylbenzene	2500.0000	0.0000	2174.0188	87		75 - 130
1,1,2,2-Tetrachloroethane	2500.0000	0.0000	2104.8664	84		55 - 130
1,3-Dichlorobenzene	2500.0000	0.0000	2170.0524	87		70 - 125
1,4-Dichlorobenzene	2500.0000	0.0000	2161.2378	86		70 - 125
1,2-Dichlorobenzene	2500.0000	0.0000	2158.4867	86		75 - 120

3 - FORM III
SOIL LABORATORY CONTROL
SAMPLE RECOVERY

EPA SAMPLE NO.
LCS-71954

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0791 Mod. Ref No.: SDG No.: SM0791

Lab Sample ID: LCS-71954 LCS Lot No.:

Date Extracted: 05/30/2013 Date Analyzed (1): 05/30/2013

COMPOUND	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS %REC	#	QC. LIMITS REC.
1,2-Dibromo-3-chloropropan	2500.0000	0.0000	1825.0597	73		40 - 135
1,2,4-Trichlorobenzene	2500.0000	0.0000	2199.6978	88		65 - 130
1,2,3-Trichlorobenzene	2500.0000	0.0000	2269.8266	91		60 - 135
1,1,2-Trichloro-1,2,2-trif	2500.0000	0.0000	2302.6875	92		70 - 130
1,4-Dioxane	50000.0000	0.0000	42770.4346	86		70 - 130
Cyclohexane	2500.0000	0.0000	2092.8181	84		70 - 130
Methyl acetate	2500.0000	0.0000	1956.3703	78		70 - 130
Methylcyclohexane	2500.0000	0.0000	2230.2639	89		70 - 130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 0 out of 52 outside limits

COMMENTS:

4A - FORM IV VOA

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

MB-71954

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0791 Mod. Ref No.: SDG No.: SM0791

Lab File ID: V5O3813.D Lab Sample ID: MB-71954

Instrument ID: V5

Matrix: (SOIL/SED/WATER) SOIL Date Analyzed: 05/30/2013

Level: (TRACE or LOW/MED) MED Time Analyzed: 17:55

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	LCS-71954	LCS-71954	V5O3811.D	17:04
02	CS-B2	M0791-01A	V5O3818.D	20:05
03	CS-B3	M0791-02A	V5O3819.D	20:30
04	CS-E1	M0791-03A	V5O3820.D	20:56
05	CS-S3	M0791-04A	V5O3821.D	21:21
06	CS-N3	M0791-05A	V5O3822.D	21:47

COMMENTS:

som13.06.03.A

8A - FORM VIII VOA

VOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M0791 Mod. Ref No.: SDG No.: SM0791

GC Column: DB-624 ID: 0.25 (mm) Init. Calib. Date(s): 05/30/2013 05/30/2013

EPA Sample No.(VSTD#####): VSTD0505W Date Analyzed: 05/30/2013

Lab File ID (Standard): V5O3809.D Time Analyzed: 16:12

Instrument ID: V5 Heated Purge: (Y/N) N

		IS1 (S1) AREA	#	RT	#	IS2 (S2) AREA	#	RT	#	IS3 (S3) AREA	#	RT	#
	12 HOUR STD	812110		5.611		595447		9.084		255184		12.244	
	UPPER LIMIT	1624220		6.111		1190894		9.584		510368		12.744	
	LOWER LIMIT	406055		5.111		297724		8.584		127592		11.744	
	EPA SAMPLE NO.												
01	LCS-71954	819227		5.611		590297		9.084		264232		12.244	
02	MB-71954	811506		5.604		570309		9.077		249961		12.237	
03	CS-B2	782783		5.605		565414		9.079		252676		12.239	
04	CS-B3	773446		5.600		553801		9.073		245564		12.244	
05	CS-E1	768042		5.605		560590		9.078		243617		12.238	
06	CS-S3	778300		5.604		550934		9.078		243133		12.237	
07	CS-N3	782896		5.600		551371		9.085		238608		12.244	

IS1 () = Fluorobenzene
IS2 () = Chlorobenzene-d5
IS3 () = 1,4-Dichlorobenzene-d4
AREA UPPER LIMIT = 200% (Low-Medium Volatiles) and 140% (Trace Volatiles) of internal standard area
AREA LOWER LIMIT = 50% (Low-Medium Volatiles) and 60% (Trace Volatiles) of internal standard area
RT UPPER LIMIT = +0.50 (Low-Medium Volatiles) and +0.33 (Trace Volatiles) minutes of internal standard RT
RT LOWER LIMIT = -0.50 (Low-Medium Volatiles) and -0.33 (Trace Volatiles) minutes of internal standard RT

Column used to flag values outside contract required QC limits with an asterisk.

SOIL IRM BACKFILL

Adirondack Environmental Services, Inc.®
Experience is the solution
314 North Pearl Street ♦ Albany, New York 12207
(800) 848-4983 ♦ (518) 434-4546 ♦ Fax (518) 434-0891

May 14, 2013

Marc Phillips
Clean Harbors
32 Bask Road
Glenmont, NY 12077

TEL: (518) 434-0149
FAX: (518) 434-9118

Work Order No: 130509037

RE: Cohoes
NY Site

Dear Marc Phillips:

Adirondack Environmental Services, Inc received 2 samples on 5/9/2013 for the analyses presented in the following report.

Please see case narrative for specifics on analysis.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

ELAP#: 10709

Christopher Hess
QA Manager

Adirondack Environmental Services, Inc — CASE NARRATIVE

CLIENT:	Clean Harbors	**Date:**	*14-May-13*
Project:	Cohoes		
Lab Order:	130509037		

Sample containers were supplied by Adirondack Environmental Services.

		C - Details are above in Case Narrative
Qualifiers:	ND - Not Detected at reporting limit	S - LCS Spike recovery outside acceptable limits
	J - Analyte detected below quantitation limit	R - Duplication outside acceptable limits
	B - Analyte detected in Blank	T - Tentatively Identified Compound-Estimated
	X - Exceeds maximum contamination limit	E -Above quantitation range-Estimated
	H - Hold time exceeded	M - Matrix Spike outside acceptable limits

Note : All Results are reported as wet weight unless noted

The results relate only to the items tested. Information supplied by the client is assumed to be correct.

Adirondack Environmental Services, Inc

Date: *14-May-13*

CLIENT: Clean Harbors
Work Order: 130509037
Reference: Cohoes / NY Site
PO#:

Client Sample ID: 5913
Collection Date: 5/9/2013
Lab Sample ID: 130509037-001
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ORGANOCHLORINE PESTICIDES SW8081A						Analyst: **KF**
(Prep: SW3545 - 5/9/2013)						
4,4'-DDD	< 3.5	3.5		µg/Kg-dry	1	5/9/2013 10:25:15 PM
4,4'-DDE	< 3.5	3.5		µg/Kg-dry	1	5/9/2013 10:25:15 PM
4,4'-DDT	< 3.5	3.5		µg/Kg-dry	1	5/9/2013 10:25:15 PM
Aldrin	< 1.8	1.8		µg/Kg-dry	1	5/9/2013 10:25:15 PM
alpha-BHC	< 1.8	1.8		µg/Kg-dry	1	5/9/2013 10:25:15 PM
alpha-Chlordane	< 1.8	1.8		µg/Kg-dry	1	5/9/2013 10:25:15 PM
beta-BHC	< 1.8	1.8		µg/Kg-dry	1	5/9/2013 10:25:15 PM
Chlordane	< 180	180		µg/Kg-dry	1	5/9/2013 10:25:15 PM
delta-BHC	< 1.8	1.8		µg/Kg-dry	1	5/9/2013 10:25:15 PM
Dieldrin	< 3.5	3.5		µg/Kg-dry	1	5/9/2013 10:25:15 PM
Endosulfan I	< 1.8	1.8		µg/Kg-dry	1	5/9/2013 10:25:15 PM
Endosulfan II	< 3.5	3.5		µg/Kg-dry	1	5/9/2013 10:25:15 PM
Endosulfan sulfate	< 3.5	3.5		µg/Kg-dry	1	5/9/2013 10:25:15 PM
Endrin	< 3.5	3.5		µg/Kg-dry	1	5/9/2013 10:25:15 PM
Endrin aldehyde	< 3.5	3.5		µg/Kg-dry	1	5/9/2013 10:25:15 PM
Endrin ketone	< 3.5	3.5		µg/Kg-dry	1	5/9/2013 10:25:15 PM
gamma-BHC	< 1.8	1.8		µg/Kg-dry	1	5/9/2013 10:25:15 PM
gamma-Chlordane	< 1.8	1.8		µg/Kg-dry	1	5/9/2013 10:25:15 PM
Heptachlor	< 1.8	1.8	S	µg/Kg-dry	1	5/9/2013 10:25:15 PM
Heptachlor epoxide	< 1.8	1.8		µg/Kg-dry	1	5/9/2013 10:25:15 PM
Methoxychlor	< 18	18		µg/Kg-dry	1	5/9/2013 10:25:15 PM
Toxaphene	< 180	180		µg/Kg-dry	1	5/9/2013 10:25:15 PM
Surr: Decachlorobiphenyl	116	49.6-137		%REC	1	5/9/2013 10:25:15 PM
Surr: Tetrachloro-m-xylene	60.6	44.7-148		%REC	1	5/9/2013 10:25:15 PM
POLYCHLORINATED BIPHENYLS SW8082						Analyst: **KF**
(Prep: SW3545 - 5/9/2013)						
Aroclor 1016	< 35	35		µg/Kg-dry	1	5/9/2013 10:25:15 PM
Aroclor 1221	< 35	35		µg/Kg-dry	1	5/9/2013 10:25:15 PM
Aroclor 1232	< 35	35		µg/Kg-dry	1	5/9/2013 10:25:15 PM
Aroclor 1242	< 35	35		µg/Kg-dry	1	5/9/2013 10:25:15 PM
Aroclor 1248	< 35	35		µg/Kg-dry	1	5/9/2013 10:25:15 PM
Aroclor 1254	< 35	35		µg/Kg-dry	1	5/9/2013 10:25:15 PM
Aroclor 1260	< 35	35		µg/Kg-dry	1	5/9/2013 10:25:15 PM
Aroclor 1262	< 35	35		µg/Kg-dry	1	5/9/2013 10:25:15 PM
Aroclor 1268	< 35	35		µg/Kg-dry	1	5/9/2013 10:25:15 PM
Surr: Decachlorobiphenyl	78.6	48.1-152		%REC	1	5/9/2013 10:25:15 PM
ICP METALS SW6010B						Analyst: **SM**
(Prep: SW3050B - 5/10/2013)						

Adirondack Environmental Services, Inc

Date: *14-May-13*

CLIENT: Clean Harbors
Work Order: 130509037
Reference: Cohoes / NY Site
PO#:

Client Sample ID: 5913
Collection Date: 5/9/2013
Lab Sample ID: 130509037-001
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS SW6010B (**Prep: SW3050B - 5/10/2013**)						Analyst: **SM**
Arsenic	3.16	0.264		µg/g-dry	1	5/10/2013 4:46:53 PM
Barium	44.5	0.529		µg/g-dry	1	5/10/2013 4:46:53 PM
Cadmium	< 0.264	0.264		µg/g-dry	1	5/10/2013 4:46:53 PM
Chromium	7.67	0.264		µg/g-dry	1	5/10/2013 4:46:53 PM
Lead	8.66	0.264		µg/g-dry	1	5/10/2013 4:46:53 PM
Selenium	< 0.264	0.264		µg/g-dry	1	5/10/2013 4:46:53 PM
Silver	< 1.06	1.06		µg/g-dry	1	5/10/2013 4:46:53 PM
MERCURY SW7471A (**Prep: SW7471A - 5/10/2013**)						Analyst: **WB**
Mercury	0.027	0.021		µg/g-dry	1	5/10/2013
SEMI VOLATILE ORGANICS SW8270C (**Prep: SW3545 - 5/10/2013**)						Analyst: **MT**
Phenol	< 350	350		µg/Kg-dry	1	5/13/2013 5:16:00 PM
Bis(2-chloroethyl)ether	< 350	350		µg/Kg-dry	1	5/13/2013 5:16:00 PM
2-Chlorophenol	< 350	350		µg/Kg-dry	1	5/13/2013 5:16:00 PM
1,3-Dichlorobenzene	< 350	350		µg/Kg-dry	1	5/13/2013 5:16:00 PM
1,4-Dichlorobenzene	< 350	350		µg/Kg-dry	1	5/13/2013 5:16:00 PM
1,2-Dichlorobenzene	< 350	350		µg/Kg-dry	1	5/13/2013 5:16:00 PM
2-Methylphenol	< 350	350		µg/Kg-dry	1	5/13/2013 5:16:00 PM
Bis(2-chloroisopropyl)ether	< 350	350		µg/Kg-dry	1	5/13/2013 5:16:00 PM
4-Methylphenol	< 350	350		µg/Kg-dry	1	5/13/2013 5:16:00 PM
N-Nitrosodi-n-propylamine	< 350	350		µg/Kg-dry	1	5/13/2013 5:16:00 PM
Hexachloroethane	< 350	350		µg/Kg-dry	1	5/13/2013 5:16:00 PM
Nitrobenzene	< 350	350		µg/Kg-dry	1	5/13/2013 5:16:00 PM
Isophorone	< 350	350		µg/Kg-dry	1	5/13/2013 5:16:00 PM
2-Nitrophenol	< 350	350		µg/Kg-dry	1	5/13/2013 5:16:00 PM
2,4-Dimethylphenol	< 350	350		µg/Kg-dry	1	5/13/2013 5:16:00 PM
Bis(2-chloroethoxy)methane	< 350	350		µg/Kg-dry	1	5/13/2013 5:16:00 PM
2,4-Dichlorophenol	< 350	350		µg/Kg-dry	1	5/13/2013 5:16:00 PM
1,2,4-Trichlorobenzene	< 350	350		µg/Kg-dry	1	5/13/2013 5:16:00 PM
Naphthalene	< 350	350		µg/Kg-dry	1	5/13/2013 5:16:00 PM
4-Chloroaniline	< 350	350		µg/Kg-dry	1	5/13/2013 5:16:00 PM
Hexachlorobutadiene	< 350	350		µg/Kg-dry	1	5/13/2013 5:16:00 PM
4-Chloro-3-methylphenol	< 350	350		µg/Kg-dry	1	5/13/2013 5:16:00 PM
2-Methylnaphthalene	< 350	350		µg/Kg-dry	1	5/13/2013 5:16:00 PM
Hexachlorocyclopentadiene	< 350	350		µg/Kg-dry	1	5/13/2013 5:16:00 PM
2,4,6-Trichlorophenol	< 350	350		µg/Kg-dry	1	5/13/2013 5:16:00 PM
2,4,5-Trichlorophenol	< 350	350		µg/Kg-dry	1	5/13/2013 5:16:00 PM

Adirondack Environmental Services, Inc

Date: *14-May-13*

CLIENT: Clean Harbors
Work Order: 130509037
Reference: Cohoes / NY Site
PO#:

Client Sample ID: 5913
Collection Date: 5/9/2013
Lab Sample ID: 130509037-001
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
SEMI VOLATILE ORGANICS SW8270C						Analyst: **MT**
(Prep: SW3545 - 5/10/2013)						
2-Chloronaphthalene	< 350	350		µg/Kg-dry	1	5/13/2013 5:16:00 PM
2-Nitroaniline	< 1800	1800		µg/Kg-dry	1	5/13/2013 5:16:00 PM
Dimethyl phthalate	< 350	350		µg/Kg-dry	1	5/13/2013 5:16:00 PM
Acenaphthylene	< 350	350		µg/Kg-dry	1	5/13/2013 5:16:00 PM
2,6-Dinitrotoluene	< 350	350		µg/Kg-dry	1	5/13/2013 5:16:00 PM
3-Nitroaniline	< 1800	1800		µg/Kg-dry	1	5/13/2013 5:16:00 PM
Acenaphthene	< 350	350		µg/Kg-dry	1	5/13/2013 5:16:00 PM
2,4-Dinitrophenol	< 1800	1800		µg/Kg-dry	1	5/13/2013 5:16:00 PM
4-Nitrophenol	< 1800	1800		µg/Kg-dry	1	5/13/2013 5:16:00 PM
Dibenzofuran	< 350	350		µg/Kg-dry	1	5/13/2013 5:16:00 PM
2,4-Dinitrotoluene	< 350	350		µg/Kg-dry	1	5/13/2013 5:16:00 PM
Diethyl phthalate	< 350	350		µg/Kg-dry	1	5/13/2013 5:16:00 PM
4-Chlorophenyl phenyl ether	< 350	350		µg/Kg-dry	1	5/13/2013 5:16:00 PM
Fluorene	< 350	350		µg/Kg-dry	1	5/13/2013 5:16:00 PM
4-Nitroaniline	< 1800	1800		µg/Kg-dry	1	5/13/2013 5:16:00 PM
4,6-Dinitro-2-methylphenol	< 1800	1800		µg/Kg-dry	1	5/13/2013 5:16:00 PM
N-Nitrosodiphenylamine	< 350	350		µg/Kg-dry	1	5/13/2013 5:16:00 PM
4-Bromophenyl phenyl ether	< 350	350		µg/Kg-dry	1	5/13/2013 5:16:00 PM
Hexachlorobenzene	< 350	350		µg/Kg-dry	1	5/13/2013 5:16:00 PM
Pentachlorophenol	< 1800	1800		µg/Kg-dry	1	5/13/2013 5:16:00 PM
Phenanthrene	< 350	350		µg/Kg-dry	1	5/13/2013 5:16:00 PM
Anthracene	< 350	350		µg/Kg-dry	1	5/13/2013 5:16:00 PM
Carbazole	< 350	350		µg/Kg-dry	1	5/13/2013 5:16:00 PM
Di-n-butyl phthalate	< 350	350		µg/Kg-dry	1	5/13/2013 5:16:00 PM
Fluoranthene	< 350	350		µg/Kg-dry	1	5/13/2013 5:16:00 PM
Pyrene	< 350	350		µg/Kg-dry	1	5/13/2013 5:16:00 PM
Butyl benzyl phthalate	< 350	350		µg/Kg-dry	1	5/13/2013 5:16:00 PM
3,3´-Dichlorobenzidine	< 690	690		µg/Kg-dry	1	5/13/2013 5:16:00 PM
Benz(a)anthracene	< 350	350		µg/Kg-dry	1	5/13/2013 5:16:00 PM
Chrysene	< 350	350		µg/Kg-dry	1	5/13/2013 5:16:00 PM
Bis(2-ethylhexyl)phthalate	670	350	B	µg/Kg-dry	1	5/13/2013 5:16:00 PM
Di-n-octyl phthalate	< 350	350		µg/Kg-dry	1	5/13/2013 5:16:00 PM
Benzo(b)fluoranthene	< 350	350		µg/Kg-dry	1	5/13/2013 5:16:00 PM
Benzo(k)fluoranthene	< 350	350		µg/Kg-dry	1	5/13/2013 5:16:00 PM
Benzo(a)pyrene	< 350	350		µg/Kg-dry	1	5/13/2013 5:16:00 PM
Indeno(1,2,3-cd)pyrene	< 350	350		µg/Kg-dry	1	5/13/2013 5:16:00 PM
Dibenz(a,h)anthracene	< 350	350		µg/Kg-dry	1	5/13/2013 5:16:00 PM
Benzo(g,h,i)perylene	< 350	350		µg/Kg-dry	1	5/13/2013 5:16:00 PM
Surr: 2,4,6-Tribromophenol	68.9	19.1-99.1		%REC	1	5/13/2013 5:16:00 PM
Surr: 2-Fluorobiphenyl	79.4	52.1-126		%REC	1	5/13/2013 5:16:00 PM

Adirondack Environmental Services, Inc

Date: *14-May-13*

CLIENT:	Clean Harbors	**Client Sample ID:**	5913
Work Order:	130509037	**Collection Date:**	5/9/2013
Reference:	Cohoes / NY Site	**Lab Sample ID:**	130509037-001
PO#:		**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
SEMI VOLATILE ORGANICS SW8270C						Analyst: **MT**
(Prep: SW3545 - 5/10/2013)						
Surr: 2-Fluorophenol	42.8	25.6-96.3		%REC	1	5/13/2013 5:16:00 PM
Surr: 4-Terphenyl-d14	95.7	49.5-137		%REC	1	5/13/2013 5:16:00 PM
Surr: Nitrobenzene-d5	64.2	25.8-119		%REC	1	5/13/2013 5:16:00 PM
Surr: Phenol-d5	56.7	18.4-101		%REC	1	5/13/2013 5:16:00 PM
MOISURE CONTENT ASTM D2216 D2216						Analyst: **PF**
Percent Moisture	5.4	0.1		wt%	1	5/13/2013

Adirondack Environmental Services, Inc

Date: *14-May-13*

CLIENT:	Clean Harbors	**Client Sample ID:**	5913-B
Work Order:	130509037	**Collection Date:**	5/9/2013
Reference:	Cohoes / NY Site	**Lab Sample ID:**	130509037-002
PO#:		**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS-(SW5035 PREP) 5/9/2013	**SW8260B)**					Analyst: **MG**
Chloromethane	< 11	11		µg/Kg-dry	1	5/13/2013 11:57:00 AM
Bromomethane	< 11	11	S	µg/Kg-dry	1	5/13/2013 11:57:00 AM
Vinyl chloride	< 11	11		µg/Kg-dry	1	5/13/2013 11:57:00 AM
Chloroethane	< 11	11		µg/Kg-dry	1	5/13/2013 11:57:00 AM
Methylene chloride	< 5	5		µg/Kg-dry	1	5/13/2013 11:57:00 AM
Acetone	16	11		µg/Kg-dry	1	5/13/2013 11:57:00 AM
Carbon disulfide	< 5	5		µg/Kg-dry	1	5/13/2013 11:57:00 AM
1,1-Dichloroethene	< 5	5	S	µg/Kg-dry	1	5/13/2013 11:57:00 AM
1,1-Dichloroethane	< 5	5		µg/Kg-dry	1	5/13/2013 11:57:00 AM
trans-1,2-Dichloroethene	< 5	5		µg/Kg-dry	1	5/13/2013 11:57:00 AM
cis-1,2-Dichloroethene	< 5	5		µg/Kg-dry	1	5/13/2013 11:57:00 AM
Chloroform	< 5	5		µg/Kg-dry	1	5/13/2013 11:57:00 AM
1,2-Dichloroethane	< 5	5		µg/Kg-dry	1	5/13/2013 11:57:00 AM
2-Butanone	< 11	11	S	µg/Kg-dry	1	5/13/2013 11:57:00 AM
1,1,1-Trichloroethane	< 5	5		µg/Kg-dry	1	5/13/2013 11:57:00 AM
Carbon tetrachloride	< 5	5		µg/Kg-dry	1	5/13/2013 11:57:00 AM
Bromodichloromethane	< 5	5		µg/Kg-dry	1	5/13/2013 11:57:00 AM
1,2-Dichloropropane	< 5	5		µg/Kg-dry	1	5/13/2013 11:57:00 AM
cis-1,3-Dichloropropene	< 5	5		µg/Kg-dry	1	5/13/2013 11:57:00 AM
Trichloroethene	< 5	5		µg/Kg-dry	1	5/13/2013 11:57:00 AM
Dibromochloromethane	< 5	5		µg/Kg-dry	1	5/13/2013 11:57:00 AM
1,1,2-Trichloroethane	< 5	5		µg/Kg-dry	1	5/13/2013 11:57:00 AM
Benzene	< 5	5		µg/Kg-dry	1	5/13/2013 11:57:00 AM
trans-1,3-Dichloropropene	< 5	5		µg/Kg-dry	1	5/13/2013 11:57:00 AM
Bromoform	< 5	5		µg/Kg-dry	1	5/13/2013 11:57:00 AM
4-Methyl-2-pentanone	< 11	11		µg/Kg-dry	1	5/13/2013 11:57:00 AM
2-Hexanone	< 11	11		µg/Kg-dry	1	5/13/2013 11:57:00 AM
Tetrachloroethene	< 5	5		µg/Kg-dry	1	5/13/2013 11:57:00 AM
1,1,2,2-Tetrachloroethane	< 5	5		µg/Kg-dry	1	5/13/2013 11:57:00 AM
Toluene	< 5	5		µg/Kg-dry	1	5/13/2013 11:57:00 AM
Chlorobenzene	< 5	5		µg/Kg-dry	1	5/13/2013 11:57:00 AM
Ethylbenzene	< 5	5		µg/Kg-dry	1	5/13/2013 11:57:00 AM
Styrene	< 5	5		µg/Kg-dry	1	5/13/2013 11:57:00 AM
m,p-Xylene	< 5	5		µg/Kg-dry	1	5/13/2013 11:57:00 AM
o-Xylene	< 5	5		µg/Kg-dry	1	5/13/2013 11:57:00 AM
Methyl tert-butyl ether	< 5	5		µg/Kg-dry	1	5/13/2013 11:57:00 AM
Dichlorodifluoromethane	< 5	5		µg/Kg-dry	1	5/13/2013 11:57:00 AM
Methyl Acetate	< 5	5		µg/Kg-dry	1	5/13/2013 11:57:00 AM
1,1,2-Trichloro-1,2,2-trifluoroethane	< 5	5	S	µg/Kg-dry	1	5/13/2013 11:57:00 AM
Trichlorofluoromethane	< 5	5		µg/Kg-dry	1	5/13/2013 11:57:00 AM

Adirondack Environmental Services, Inc

Date: *14-May-13*

CLIENT:	Clean Harbors	**Client Sample ID:**	5913-B
Work Order:	130509037	**Collection Date:**	5/9/2013
Reference:	Cohoes / NY Site	**Lab Sample ID:**	130509037-002
PO#:		**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS-(SW5035 PREP) SW8260B						Analyst: **MG**
5/9/2013)						
Cyclohexane	< 11	11		µg/Kg-dry	1	5/13/2013 11:57:00 AM
Methyl Cyclohexane	< 5	5		µg/Kg-dry	1	5/13/2013 11:57:00 AM
1,2-Dibromoethane	< 5	5		µg/Kg-dry	1	5/13/2013 11:57:00 AM
1,3-Dichlorobenzene	< 5	5		µg/Kg-dry	1	5/13/2013 11:57:00 AM
Isopropylbenzene	< 5	5		µg/Kg-dry	1	5/13/2013 11:57:00 AM
1,2-Dichlorobenzene	< 5	5		µg/Kg-dry	1	5/13/2013 11:57:00 AM
1,4-Dichlorobenzene	< 5	5		µg/Kg-dry	1	5/13/2013 11:57:00 AM
1,2-Dibromo-3-chloropropane	< 11	11		µg/Kg-dry	1	5/13/2013 11:57:00 AM
1,2,4-Trichlorobenzene	< 5	5		µg/Kg-dry	1	5/13/2013 11:57:00 AM
Surr: 1,2-Dichloroethane-d4	101	64.8-130		%REC	1	5/13/2013 11:57:00 AM
Surr: 4-Bromofluorobenzene	106	76.8-122		%REC	1	5/13/2013 11:57:00 AM
Surr: Toluene-d8	100	78.5-120		%REC	1	5/13/2013 11:57:00 AM
MOISURE CONTENT ASTM D2216 D2216						Analyst: **PF**
Percent Moisture	5.2	0.1		wt%	1	5/10/2013

Adirondack Environmental Services Inc.
Experience is the solution

314 North Pearl Street
Albany, New York 12207
518-434-4546/434-0891 FAX

A full service analytical research laboratory offering solutions to environmental concerns

CHAIN OF CUSTODY RECORD

AES Work Order # 13050903 7

Client Name: Clean Harbors, Inc.	Address: 32 Bask Rd. Glenmont, N.Y.		
Send Report To: Marc Phillips	Project Name (Location) Cohoes, N.Y. Site	Samplers: (Names) Ron Cook	
Client Phone No: 434-0149	Client Email: Phillips.Marc@cleanharbors.com	PO Number:	Samplers: (Signature) Ron Cook

AES Sample Number	Client Sample Identification & Location	Date Sampled	Time A=a.m. P=p.m.		Sample Type Matrix	Comp	Grab	Number of Cont's	Analysis Required
01	5913	5/9/13		A P	Soil	X		1	TOTAL PCBS 8250, TOTAL METALS, TOTAL Pesticides
02	5913-B	5/9/13	2:15	A P	Soil	X		1	8260
				A P					
				A P					
				A P					
				A P					
				A P					
				A P					
				A P					
				A P					
				A P					
				A P					
				A P					
				A P					

Shipment Arrived Via:
FedEx UPS Client AES Other: _____

Turnaround Time Request:
☐ 1 Day ☐ 3 Day ☐ Normal
☐ 2 Day ☐ 5 Day

CC Report To / Special Instructions/Remarks:
Need results by/before Tuesday please!
Email to: Phillips.Marc@cleanharbors.com

Relinquished by: (Signature)	Received by: (Signature)	Date/Time
Relinquished by: (Signature)	Received by: (Signature)	Date/Time
Relinquished by: (Signature)	Received for Laboratory by:	Date/Time 5-9-13 3:00 PM

Temperature	AES Bottles	Properly Preserved	Received Within Holding Times
Ambient or Chilled	Y ☐ N ☐	Y N	Y N
Notes: 23°C		Notes:	Notes:

WHITE - Lab Copy YELLOW - Sampler Copy PINK - Generator Copy

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TERMS, CONDITIONS & LIMITATIONS

All service rendered by the **Adirondack Environmental Services, Inc.** are undertaken and all rates are based upon the following terms:

(a) Neither **Adirondack Environmental Services, Inc.,** nor any of its employees, agents or sub-contractors shall be liable for any loss or damage arising out of **Adirondack Environmental Services, Inc.'s** performance or nonperformance, whether by way of negligence or breach of contract, or otherwise, in any amount greater than twice the amount billed to the customer for the work leading to the claim of the customer. Said remedy shall be the sole and exclusive remedy against **Adirondack Environmental Services, Inc.** arising out of its work.

(b) All claims made must be in writing within forty-five (45) days after delivery of the **Adirondack Environmental Services, Inc.** report regarding said work or such claim shall be deemed or irrevocably waived.

(c) **Adirondack Environmental Services, Inc.** reports are submitted in writing and are for our customers only. Our customers are considered to be only those entities being billed for our services. Acquisition of an **Adirondack Environmental Services, Inc.** report by other than our customer does not constitute a representation of **Adirondack Environmental Services, Inc.** as to the accuracy of the contents thereof.

(d) In no event shall **Adirondack Environmental Services, Inc.,** its employees, agents or sub-contractors be responsible for consequential or special damages of any kind or in any amount.

(e) No deviation from the terms set forth herein shall bind **Adirondack Environmental Services, Inc.** unless in writing and signed by a Director of **Adirondack Environmental Services, Inc.**

(f) Results pertain only to items analyzed. Information supplied by client is assumed to be correct. This information may be used on reports and in calculations and **Adirondack Environmental Services, Inc.** is not responsible for the accuracy of this information.

(g) Payments by Credit Card/Purchase Cards are subject to a 3% additional charge.

REMEDIAL INVESTIGATION

Report Date:
23-Oct-12 22:56

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

☑ Final Report
☐ Re-Issued Report
☐ Revised Report

Laboratory Report

ARCADIS U.S., Inc.
855 Route 146, Suite 210
Clifton Park, NY 12065

Work Order: L2071
Project : S&S Dry Cleaners & Dyers
Project #: 0266396.0000

Attn: Andy Vitolins

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
L2071-01	MW-2	Aqueous	01-Oct-12 10:25	02-Oct-12 09:45
L2071-02	MW-1	Aqueous	01-Oct-12 11:35	02-Oct-12 09:45
L2071-03	MW-3	Aqueous	01-Oct-12 12:45	02-Oct-12 09:45
L2071-04	MW-6	Aqueous	01-Oct-12 14:45	02-Oct-12 09:45
L2071-05	MW-8	Aqueous	01-Oct-12 16:15	02-Oct-12 09:45
L2071-06	DUP	Aqueous	01-Oct-12 00:00	02-Oct-12 09:45
L2071-07	TB100112	Aqueous	01-Oct-12 00:00	02-Oct-12 09:45
L2071-08	MW-5	Aqueous	02-Oct-12 11:00	03-Oct-12 09:09
L2071-09	TB100212	Aqueous	02-Oct-12 00:00	03-Oct-12 09:09
L2071-10	MW-7	Aqueous	04-Oct-12 10:45	05-Oct-12 09:15
L2071-11	TB100412	Aqueous	04-Oct-12 00:00	05-Oct-12 09:15

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. The results relate only to the samples(s) as received. This report may not be reproduced, except in full, without written approval from Spectrum Analytical.

All applicable NELAC or USEPA CLP requirments have been meet.

Spectrum Analytical (Rhode Island) is accredited under the National Environmental Laboratory Approval Program (NELAP) and DoD Environmental Laboratory Accreditation Program (ELAP), holds Organic and Inorganic contracts under the USEPA CLP Program and is certified under several states. The current list of our laboratory approvals and certifications is available on the Certifications page on our web site at www.spectrum-analytical.com.

Please contact the Laboratory or Technical Director at 401-732-3400 with any questions regarding the data contained in the laboratory report.

Department of Defense	N/A
Connecticut	PH-0153
Delaware	N/A
Florida	E87664
Maine	2007037
Massachusetts	M-RI907
New Hampshire	2631
New Jersey	RI001
New York	11522
North Carolina	581
Rhode Island	LAI00301
USDA	P330-08-00023
USEPA - ISM	EP-W-09-039
USEPA - SOM	EP-W-11-033

NELAP ACCREDITED TNI LABORATORY

LABORATORY ACCREDITATION BUREAU ACCREDITED
Certificate # L2247 Testing

Authorized by:

Yihai Ding
Laboratory Director



SPECTRUM ANALYTICAL, INC.
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* Data Summary Pack *

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www.spectrum-analytical.com

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

New York State Department of Environmental Conservation
Sample Identification and Analytical Requirements Summary

Project Name : S&S Dry Cleaners & Dyers -- 0266396.0000 **SDG :** L2071

Customer Sample ID	Laboratory Sample ID	Analytical Requirements				
		MSVOA Method #	MSSEMI Method #	GC* Method #	ME	Other
MW-2	L2071-01	SW8260_W				
MW-1	L2071-02	SW8260_W				
MW-3	L2071-03	SW8260_W				
MW-6	L2071-04	SW8260_W				
MW-8	L2071-05	SW8260_W	SW8270_W	SW8081_W	SW6010_W	
MW-8	L2071-05			SW8082_W	SW7470	
DUP	L2071-06	SW8260_W	SW8270_W	SW8081_W	SW6010_W	
DUP	L2071-06			SW8082_W	SW7470	
TB100112	L2071-07	SW8260_W				
MW-5	L2071-08	SW8260_W				
TB100212	L2071-09	SW8260_W				
MW-7	L2071-10	SW8260_W	SW8270_W	SW8081_W	SW6010_W	
MW-7	L2071-10			SW8082_W	SW7470	
TB100412	L2071-11	SW8260_W				

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

New York State Department of Environmental Conservation
Sample Preparation and Analysis Summary MSVOA

Project Name : S&S Dry Cleaners & Dyers -- 0266396.0000 **SDG :** L2071

Laboratory Sample ID	Matrix	Date Collected	Date Received By Lab	Date Extracted	Date Analyzed
SW8260_W					
L2071-01A	AQ	10/1/2012	10/2/2012	NA	10/11/2012
L2071-02A	AQ	10/1/2012	10/2/2012	NA	10/11/2012
L2071-03A	AQ	10/1/2012	10/2/2012	NA	10/10/2012
L2071-04A	AQ	10/1/2012	10/2/2012	NA	10/10/2012
L2071-05A	AQ	10/1/2012	10/2/2012	NA	10/10/2012
L2071-05AMS	AQ	10/1/2012	10/2/2012	NA	10/13/2012
L2071-05AMSD	AQ	10/1/2012	10/2/2012	NA	10/13/2012
L2071-06A	AQ	10/1/2012	10/2/2012	NA	10/10/2012
L2071-07A	AQ	10/1/2012	10/2/2012	NA	10/12/2012
L2071-08A	AQ	10/2/2012	10/3/2012	NA	10/11/2012
L2071-09A	AQ	10/2/2012	10/3/2012	NA	10/12/2012
L2071-10A	AQ	10/4/2012	10/5/2012	NA	10/12/2012
L2071-10ADL	AQ	10/4/2012	10/5/2012	NA	10/15/2012
L2071-11A	AQ	10/4/2012	10/5/2012	NA	10/12/2012

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

New York State Department of Environmental Conservation
Sample Preparation and Analysis Summary MSSEMI

Project Name : S&S Dry Cleaners & Dyers -- 0266396.0000 **SDG :** L2071

Laboratory Sample ID	Matrix	Date Collected	Date Received By Lab	Date Extracted	Date Analyzed
SW8270_W					
L2071-05B	AQ	10/1/2012	10/2/2012	10/4/2012	10/5/2012
L2071-05BMS	AQ	10/1/2012	10/2/2012	10/4/2012	10/5/2012
L2071-05BMSD	AQ	10/1/2012	10/2/2012	10/4/2012	10/5/2012
L2071-06B	AQ	10/1/2012	10/2/2012	10/4/2012	10/5/2012
L2071-10B	AQ	10/4/2012	10/5/2012	10/10/2012	10/10/2012

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

New York State Department of Environmental Conservation
Sample Preparation and Analysis Summary GC*

Project Name : S&S Dry Cleaners & Dyers -- 0266396.0000 **SDG :** L2071

Laboratory Sample ID	Matrix	Date Collected	Date Received By Lab	Date Extracted	Date Analyzed
SW8081_W					
L2071-05B	AQ	10/1/2012	10/2/2012	10/4/2012	10/9/2012
L2071-05BMS	AQ	10/1/2012	10/2/2012	10/4/2012	10/9/2012
L2071-05BMSD	AQ	10/1/2012	10/2/2012	10/4/2012	10/10/2012
L2071-06B	AQ	10/1/2012	10/2/2012	10/4/2012	10/10/2012
L2071-10B	AQ	10/4/2012	10/5/2012	10/11/2012	10/12/2012
SW8082_W					
L2071-05B	AQ	10/1/2012	10/2/2012	10/4/2012	10/10/2012
L2071-05BMS	AQ	10/1/2012	10/2/2012	10/4/2012	10/10/2012
L2071-05BMSD	AQ	10/1/2012	10/2/2012	10/4/2012	10/10/2012
L2071-06B	AQ	10/1/2012	10/2/2012	10/4/2012	10/10/2012
L2071-10B	AQ	10/4/2012	10/5/2012	10/11/2012	10/12/2012

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

New York State Department of Environmental Conservation
Sample Preparation and Analysis Summary MSVOA

Project Name : S&S Dry Cleaners & Dyers -- 0266396.0000 **SDG :** L2071

Laboratory Sample ID	Matrix	Analytical Protocol	Extraction Method	Low/Medium Level	Dil/Conc Factor
SW8260_W					
L2071-01A	AQ	SW8260_W	NA	LOW	1
L2071-02A	AQ	SW8260_W	NA	LOW	1
L2071-03A	AQ	SW8260_W	NA	LOW	1
L2071-04A	AQ	SW8260_W	NA	LOW	1
L2071-05A	AQ	SW8260_W	NA	LOW	1
L2071-05AMS	AQ	SW8260_W	NA	LOW	1
L2071-05AMSD	AQ	SW8260_W	NA	LOW	1
L2071-06A	AQ	SW8260_W	NA	LOW	1
L2071-07A	AQ	SW8260_W	NA	LOW	1
L2071-08A	AQ	SW8260_W	NA	LOW	1
L2071-09A	AQ	SW8260_W	NA	LOW	1
L2071-10A	AQ	SW8260_W	NA	LOW	1
L2071-10ADL	AQ	SW8260_W	NA	LOW	1000
L2071-11A	AQ	SW8260_W	NA	LOW	1

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

New York State Department of Environmental Conservation
Sample Preparation and Analysis Summary MSSEMI

Project Name : S&S Dry Cleaners & Dyers -- 0266396.0000 **SDG :** L2071

Laboratory Sample ID	Matrix	Analytical Protocol	Extraction Method	Auxiliary Cleanup	Dil/Conc Factor
SW8270_W					
L2071-05B	AQ	SW8270_W	3510C	NA	1
L2071-05BMS	AQ	SW8270_W	3510C	NA	1
L2071-05BMSD	AQ	SW8270_W	3510C	NA	1
L2071-06B	AQ	SW8270_W	3510C	NA	1
L2071-10B	AQ	SW8270_W	3510C	NA	1

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

New York State Department of Environmental Conservation
Sample Preparation and Analysis Summary GC*

Project Name : S&S Dry Cleaners & Dyers -- 0266396.0000 **SDG :** L2071

Laboratory Sample ID	Matrix	Analytical Protocol	Extraction Method	Auxiliary Cleanup	Dil/Conc Factor
SW8081_W					
L2071-05B	AQ	SW8081_W	3510C	Sulfur	1
L2071-05BMS	AQ	SW8081_W	3510C	Sulfur	1
L2071-05BMSD	AQ	SW8081_W	3510C	Sulfur	1
L2071-06B	AQ	SW8081_W	3510C	Sulfur	1
L2071-10B	AQ	SW8081_W	3510C	Sulfur	1
SW8082_W					
L2071-05B	AQ	SW8082_W	3510C	Acid/Sulfur	1
L2071-05BMS	AQ	SW8082_W	3510C	Acid/Sulfur	1
L2071-05BMSD	AQ	SW8082_W	3510C	Acid/Sulfur	1
L2071-06B	AQ	SW8082_W	3510C	Acid/Sulfur	1
L2071-10B	AQ	SW8082_W	3510C	Acid/Sulfur	1

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

New York State Department of Environmental Conservation
Sample Preparation and Analysis Summary ME

Project Name : S&S Dry Cleaners & Dyers -- 0266396.0000 **SDG :** L2071

Laboratory Sample ID	Matrix	Metals Requested	Date Received By Lab	Date Analyzed
SW6010_W				
L2071-05C	AQ	SW6010_W	10/2/2012	10/18/2012
L2071-05CDUP	AQ	SW6010_W	10/2/2012	10/18/2012
L2071-05CMS	AQ	SW6010_W	10/2/2012	10/18/2012
L2071-06C	AQ	SW6010_W	10/2/2012	10/18/2012
L2071-10C	AQ	SW6010_W	10/5/2012	10/18/2012
SW7470				
L2071-05C	AQ	SW7470	10/2/2012	10/10/2012
L2071-05CDUP	AQ	SW7470	10/2/2012	10/10/2012
L2071-05CMS	AQ	SW7470	10/2/2012	10/10/2012
L2071-06C	AQ	SW7470	10/2/2012	10/10/2012
L2071-10C	AQ	SW7470	10/5/2012	10/10/2012

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

WorkOrder: L2071

Client ID: MALCOLM_LATHAM
Project: S&S Dry Cleaners & Dyers
WO Name: S&S Dry Cleaners & Dyers
Location: ARCADIS_COHOES, 0266396.0000
Comments: N/A

Case:
SDG:
PO: 266396

HC Due: 10/23/12
Fax Due:
Fax Report: ☐

Report Level: ASP-B
Special Program:
EDD: EQUIIS_4_NYSDEC

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
L2071-01A	MW-2	10/01/2012 10:25	10/02/2012	Aqueous	SW8260_W	/ SOM list, 1ppb ICAL				Y	VOA
L2071-02A	MW-1	10/01/2012 11:35	10/02/2012	Aqueous	SW8260_W	/ SOM list, 1ppb ICAL				Y	VOA
L2071-03A	MW-3	10/01/2012 12:45	10/02/2012	Aqueous	SW8260_W	/ SOM list, 1ppb ICAL				Y	VOA
L2071-04A	MW-6	10/01/2012 14:45	10/02/2012	Aqueous	SW8260_W	/ SOM list, 1ppb ICAL				Y	VOA
L2071-05A	MW-8	10/01/2012 16:15	10/02/2012	Aqueous	SW8260_W	/ SOM list, 1ppb ICAL			Y	Y	VOA
L2071-05B	MW-8	10/01/2012 16:15	10/02/2012	Aqueous	SW8081_W	/			Y		J4
L2071-05B	MW-8	10/01/2012 16:15	10/02/2012	Aqueous	SW8082_W	/ +AR1262,1268			Y	Y	J4
L2071-05B	MW-8	10/01/2012 16:15	10/02/2012	Aqueous	SW8270_W	/ SOM list			Y	Y	J4
L2071-05C	MW-8	10/01/2012 16:15	10/02/2012	Aqueous	SW6010_W	/ TAL			Y	Y	M3
L2071-05C	MW-8	10/01/2012 16:15	10/02/2012	Aqueous	SW7470	/ TAL			Y		M3
L2071-06A	DUP	10/01/2012 00:00	10/02/2012	Aqueous	SW8260_W	/ SOM list, 1ppb ICAL				Y	VOA
L2071-06B	DUP	10/01/2012 00:00	10/02/2012	Aqueous	SW8081_W	/					J4
L2071-06B	DUP	10/01/2012 00:00	10/02/2012	Aqueous	SW8082_W	/ +AR1262,1268				Y	J4
L2071-06B	DUP	10/01/2012 00:00	10/02/2012	Aqueous	SW8270_W	/ SOM list				Y	J4
L2071-06C	DUP	10/01/2012 00:00	10/02/2012	Aqueous	SW6010_W	/ TAL				Y	M3
L2071-06C	DUP	10/01/2012 00:00	10/02/2012	Aqueous	SW7470	/ TAL					M3
L2071-07A	TB100112	10/01/2012 00:00	10/02/2012	Aqueous	SW8260_W	/ SOM list, 1ppb ICAL				Y	VOA
L2071-08A	MW-5	10/02/2012 11:00	10/03/2012	Aqueous	SW8260_W	/ SOM list, 1ppb ICAL				Y	VOA
L2071-09A	TB100212	10/02/2012 00:00	10/03/2012	Aqueous	SW8260_W	/ SOM list, 1ppb ICAL				Y	VOA

HF = Fraction logged in but all tests have been placed on hold

HT = Test logged in but has been placed on hold

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

WorkOrder: L2071

Client ID: MALCOLM_LATHAM
Project: S&S Dry Cleaners & Dyers
WO Name: S&S Dry Cleaners & Dyers
Location: ARCADIS_COHOES, 0266396.0000
Comments: N/A

Case:
SDG:
PO: 266396

HC Due: 10/23/12
Fax Due:
Fax Report: ☐

Report Level: ASP-B
Special Program:
EDD: EQUIIS_4_NYSDEC

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
L2071-10A	MW-7	10/04/2012 10:45	10/05/2012	Aqueous	SW8260_W	ONLY 1 VIAL USE EXTREME CAUTION!!!! / SOM list, 1ppb ICAL				Y	VOA
L2071-10B	MW-7	10/04/2012 10:45	10/05/2012	Aqueous	SW8081_W	/					F3
L2071-10B	MW-7	10/04/2012 10:45	10/05/2012	Aqueous	SW8082_W	/ +AR1262,1268				Y	F3
L2071-10B	MW-7	10/04/2012 10:45	10/05/2012	Aqueous	SW8270_W	/ SOM list				Y	F3
L2071-10C	MW-7	10/04/2012 10:45	10/05/2012	Aqueous	SW6010_W	/ TAL				Y	M5
L2071-10C	MW-7	10/04/2012 10:45	10/05/2012	Aqueous	SW7470	/ TAL					M5
L2071-11A	TB100412	10/04/2012 00:00	10/05/2012	Aqueous	SW8260_W	/ SOM list, 1ppb ICAL				Y	VOA

HF = Fraction logged in but all tests have been placed on hold

HT = Test logged in but has been placed on hold

* Volatiles *

REPORT NARRATIVE

Spectrum Analytical, Inc. Featuring Hanibal Technology, RI Division.

Client : ARCADIS U.S., Inc.

Project: S&S Dry Cleaners & Dyers

Laboratory Workorder / SDG #: L2071

SW846 8260C, VOC by GC-MS

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code: SW846 8260C

IV. PREPARATION

Aqueous Samples were prepared following procedures in laboratory test code: SW5030

V. INSTRUMENTATION

The following instrumentation was used

Instrument Code: V1
Instrument Type: GCMS-VOA
Description: HP5890 II / HP5972
Manufacturer: Hewlett-Packard
Model: 5890 / 5972
GC Column used: 30 m X 0.25 mm ID [1.40 um thickness] DB-624 capillary column.

Instrument Code: V6
Instrument Type: GCMS-VOA
Description: HP6890 / HP5973
Manufacturer: Hewlett-Packard
Model: 6890 / 5973
GC Column used: 30 m X 0.25 mm ID [1.40 um thickness] DB-624 capillary column.

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

Surrogate standard percent recoveries were within the QC limits with the following exceptions. Please note that the acceptance criteria allow one surrogate recovery outside of the QC limits per fraction.

MW-7 (L2071-10A), recovery is above criteria for Toluene-d8 at 126% with criteria of (85-120).

D. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits.

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

Matrix spikes were performed on samples: MW-8 (L2071-05AMS) and MW-8 (L2071-05AMSD).

Percent recoveries were within the QC limits with the following exceptions:

MW-8 (L2071-05AMS)Percent Recovery is outside QC Limits, recovery is below criteria for 1,4-Dioxane at 48% with criteria of (70-130) and Methyl acetate at 61% with criteria of (70-130).

MW-8 (L2071-05AMSD)Percent Recovery is outside QC Limits, recovery is below criteria for 1,4-Dioxane at 69% with criteria of (70-130) and Methyl acetate at 62% with criteria of (70-130).

Replicate RPDs were within the advisory QC limits.

E. Internal Standards:

Internal standard peak areas were within the QC limits.

F. Dilutions:

No sample in this SDG required analysis at dilution.

G. Samples:

No other unusual occurrences were noted during sample analysis.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Signed:_____ _____

Date:_____10/23/2012_____

Data Flag/Qualifiers:

U Not Detected. This compound was analyzed-for but not detected. For most analyses the reporting limit (lowest standard concentration) is the value listed. For Department of Defense programs, this is the Limit of Detection (LOD).

J This flag indicates an estimated value due to either
- the compound was detected below the reporting limit, or
- estimated concentration for Tentatively Identified Compound

B This flag indicates the compound was also detected in the associated Method Blank. The B flag has an alternative meaning for Inorganics analyses reported using CLP ILM-type metals forms, indicating a "trace" concentration below the reporting limit and equal to or above the detection limit.

D For Organics analysis, this flag indicates the compound concentration was obtained from a secondary dilution analysis

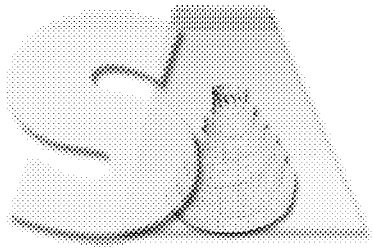
E This flag indicates the compound concentration exceeded the Calibration Range. The E flag has an alternative meaning for Inorganics analyses reported using CLP metals forms, indicating an estimated concentration due to the presence of interferences, as determined by the serial dilution analysis.

P This flag is used for pesticides/PCB/herbicide compound when there is a greater than 40% difference for detected concentration between the two GC columns used for primary and confirmation analyses. This difference typically indicates an interference, causing one value to be unusually high. The **lower** of the two values is generally reported on the Form 1, and both values reported on the Form 10.

A Used to flag semivolatile organic Tentatively Identified Compound library search results for compounds identified as aldol condensation byproducts.

N Used to flag results for volatile and semivolatile Organics analysis Tentatively Identified Compounds where an analyte has passed the identification criteria, and is considered to be positively identified. For Inorganics analysis the N flag indicates the matrix spike recovery falls outside of the control limit.

* For Inorganics analysis the * flag indicates Relative Percent Difference for duplicate analyses is outside of the control limit.



SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

Sample ID Suffixes

DL Diluted analysis. The sample was diluted and reanalyzed. The DL may be followed by a digit if more than one diluted reanalysis is provided. The DL suffix is not attached to an analysis initially performed at dilution, only to reanalyses performed at dilution

RE Reanalysis. Appended to the client sample ID to indicate a reextraction and reanalysis or a reanalysis of the original sample extract.

RA Reanalysis. Appended to the laboratory sample ID indicates a reanalysis of the original sample extract.

RX Reextraction. Appended to the laboratory sample ID indicates a reextraction of the sample.

MS Matrix Spike.

MSD Matrix Spike Duplicate

DUP Duplicate analysis

SD Serial Dilution

PS Post-digestion or Post-distillation spike. For metals or inorganic analyses

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-2

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L2071-01A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I0443.D

Level: (TRACE/LOW/MED) LOW Date Received: 10/02/2012

% Moisture: not dec. Date Analyzed: 10/11/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	1.0	U
74-87-3	Chloromethane	1.0	U
75-01-4	Vinyl chloride	1.0	U
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	1.0	U
75-09-2	Methylene chloride	1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	U
1634-04-4	Methyl tert-butyl ether	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
74-97-5	Bromochloromethane	1.0	U
67-66-3	Chloroform	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
71-43-2	Benzene	1.0	U
79-01-6	Trichloroethene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
127-18-4	Tetrachloroethene	8.1	
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U
108-90-7	Chlorobenzene	1.0	U
100-41-4	Ethylbenzene	1.0	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-2

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L2071-01A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I0443.D

Level: (TRACE/LOW/MED) LOW Date Received: 10/02/2012

% Moisture: not dec. Date Analyzed: 10/11/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
179601-23-1	m,p-Xylene	1.0	U
95-47-6	o-Xylene	1.0	U
100-42-5	Styrene	1.0	U
75-25-2	Bromoform	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U
123-91-1	1,4-Dioxane	100	U
110-82-7	Cyclohexane	1.0	U
79-20-9	Methyl acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-1

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L2071-02A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I0444.D

Level: (TRACE/LOW/MED) LOW Date Received: 10/02/2012

% Moisture: not dec. Date Analyzed: 10/11/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	1.0	U
74-87-3	Chloromethane	1.0	U
75-01-4	Vinyl chloride	1.0	U
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	1.0	U
75-09-2	Methylene chloride	1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	U
1634-04-4	Methyl tert-butyl ether	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
74-97-5	Bromochloromethane	1.0	U
67-66-3	Chloroform	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
71-43-2	Benzene	1.0	U
79-01-6	Trichloroethene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
127-18-4	Tetrachloroethene	0.93	J
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U
108-90-7	Chlorobenzene	1.0	U
100-41-4	Ethylbenzene	1.0	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-1

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L2071-02A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I0444.D

Level: (TRACE/LOW/MED) LOW Date Received: 10/02/2012

% Moisture: not dec. Date Analyzed: 10/11/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
179601-23-1	m,p-Xylene	1.0	U
95-47-6	o-Xylene	1.0	U
100-42-5	Styrene	1.0	U
75-25-2	Bromoform	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U
123-91-1	1,4-Dioxane	100	U
110-82-7	Cyclohexane	1.0	U
79-20-9	Methyl acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-3

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L2071-03A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I0409.D

Level: (TRACE/LOW/MED) LOW Date Received: 10/02/2012

% Moisture: not dec. Date Analyzed: 10/10/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	1.0	U
74-87-3	Chloromethane	1.0	U
75-01-4	Vinyl chloride	1.0	U
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	1.0	U
75-09-2	Methylene chloride	1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	U
1634-04-4	Methyl tert-butyl ether	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
74-97-5	Bromochloromethane	1.0	U
67-66-3	Chloroform	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
71-43-2	Benzene	1.0	U
79-01-6	Trichloroethene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U
108-90-7	Chlorobenzene	1.0	U
100-41-4	Ethylbenzene	1.0	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-3

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L2071-03A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I0409.D

Level: (TRACE/LOW/MED) LOW Date Received: 10/02/2012

% Moisture: not dec. Date Analyzed: 10/10/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
179601-23-1	m,p-Xylene	1.0	U
95-47-6	o-Xylene	1.0	U
100-42-5	Styrene	1.0	U
75-25-2	Bromoform	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U
123-91-1	1,4-Dioxane	100	U
110-82-7	Cyclohexane	1.0	U
79-20-9	Methyl acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-6

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L2071-04A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I0410.D

Level: (TRACE/LOW/MED) LOW Date Received: 10/02/2012

% Moisture: not dec. Date Analyzed: 10/10/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	1.0	U
74-87-3	Chloromethane	1.0	U
75-01-4	Vinyl chloride	1.0	U
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	1.0	U
75-09-2	Methylene chloride	1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	U
1634-04-4	Methyl tert-butyl ether	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
74-97-5	Bromochloromethane	1.0	U
67-66-3	Chloroform	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
71-43-2	Benzene	1.0	U
79-01-6	Trichloroethene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
127-18-4	Tetrachloroethene	0.81	J
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U
108-90-7	Chlorobenzene	1.0	U
100-41-4	Ethylbenzene	1.0	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-6

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L2071-04A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I0410.D

Level: (TRACE/LOW/MED) LOW Date Received: 10/02/2012

% Moisture: not dec. Date Analyzed: 10/10/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
179601-23-1	m,p-Xylene	1.0	U
95-47-6	o-Xylene	1.0	U
100-42-5	Styrene	1.0	U
75-25-2	Bromoform	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U
123-91-1	1,4-Dioxane	100	U
110-82-7	Cyclohexane	1.0	U
79-20-9	Methyl acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-8

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L2071-05A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I0411.D

Level: (TRACE/LOW/MED) LOW Date Received: 10/02/2012

% Moisture: not dec. Date Analyzed: 10/10/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	1.0	U
74-87-3	Chloromethane	1.0	U
75-01-4	Vinyl chloride	1.0	U
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	1.0	U
75-09-2	Methylene chloride	1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	U
1634-04-4	Methyl tert-butyl ether	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
74-97-5	Bromochloromethane	1.0	U
67-66-3	Chloroform	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
71-43-2	Benzene	1.0	U
79-01-6	Trichloroethene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U
108-90-7	Chlorobenzene	1.0	U
100-41-4	Ethylbenzene	1.0	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-8

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L2071-05A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I0411.D

Level: (TRACE/LOW/MED) LOW Date Received: 10/02/2012

% Moisture: not dec. Date Analyzed: 10/10/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
179601-23-1	m,p-Xylene	1.0	U
95-47-6	o-Xylene	1.0	U
100-42-5	Styrene	1.0	U
75-25-2	Bromoform	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U
123-91-1	1,4-Dioxane	100	U
110-82-7	Cyclohexane	1.0	U
79-20-9	Methyl acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DUP

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L2071-06A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I0412.D

Level: (TRACE/LOW/MED) LOW Date Received: 10/02/2012

% Moisture: not dec. Date Analyzed: 10/10/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	1.0	U
74-87-3	Chloromethane	1.0	U
75-01-4	Vinyl chloride	1.0	U
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	1.0	U
75-09-2	Methylene chloride	1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	U
1634-04-4	Methyl tert-butyl ether	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	0.51	J
74-97-5	Bromochloromethane	1.0	U
67-66-3	Chloroform	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
71-43-2	Benzene	1.0	U
79-01-6	Trichloroethene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U
108-90-7	Chlorobenzene	1.0	U
100-41-4	Ethylbenzene	1.0	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DUP

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L2071-06A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I0412.D

Level: (TRACE/LOW/MED) LOW Date Received: 10/02/2012

% Moisture: not dec. Date Analyzed: 10/10/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
179601-23-1	m,p-Xylene	1.0	U
95-47-6	o-Xylene	1.0	U
100-42-5	Styrene	1.0	U
75-25-2	Bromoform	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U
123-91-1	1,4-Dioxane	100	U
110-82-7	Cyclohexane	1.0	U
79-20-9	Methyl acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB100112

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L2071-07A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M8731.D

Level: (TRACE/LOW/MED) LOW Date Received: 10/02/2012

% Moisture: not dec. Date Analyzed: 10/12/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	1.0	U
74-87-3	Chloromethane	1.0	U
75-01-4	Vinyl chloride	1.0	U
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	1.0	U
75-09-2	Methylene chloride	2.1	
156-60-5	trans-1,2-Dichloroethene	1.0	U
1634-04-4	Methyl tert-butyl ether	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
74-97-5	Bromochloromethane	1.0	U
67-66-3	Chloroform	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
71-43-2	Benzene	1.0	U
79-01-6	Trichloroethene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U
108-90-7	Chlorobenzene	1.0	U
100-41-4	Ethylbenzene	1.0	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB100112

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L2071-07A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M8731.D

Level: (TRACE/LOW/MED) LOW Date Received: 10/02/2012

% Moisture: not dec. Date Analyzed: 10/12/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
179601-23-1	m,p-Xylene	1.0	U
95-47-6	o-Xylene	1.0	U
100-42-5	Styrene	1.0	U
75-25-2	Bromoform	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U
123-91-1	1,4-Dioxane	100	U
110-82-7	Cyclohexane	1.0	U
79-20-9	Methyl acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-5

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L2071-08A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I0445.D

Level: (TRACE/LOW/MED) LOW Date Received: 10/03/2012

% Moisture: not dec. Date Analyzed: 10/11/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	1.0	U
74-87-3	Chloromethane	1.0	U
75-01-4	Vinyl chloride	1.0	U
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	1.0	U
75-09-2	Methylene chloride	1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	U
1634-04-4	Methyl tert-butyl ether	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
74-97-5	Bromochloromethane	1.0	U
67-66-3	Chloroform	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
71-43-2	Benzene	1.0	U
79-01-6	Trichloroethene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U
108-90-7	Chlorobenzene	1.0	U
100-41-4	Ethylbenzene	1.0	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-5

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L2071-08A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I0445.D

Level: (TRACE/LOW/MED) LOW Date Received: 10/03/2012

% Moisture: not dec. Date Analyzed: 10/11/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
179601-23-1	m,p-Xylene	1.0	U
95-47-6	o-Xylene	1.0	U
100-42-5	Styrene	1.0	U
75-25-2	Bromoform	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U
123-91-1	1,4-Dioxane	100	U
110-82-7	Cyclohexane	1.0	U
79-20-9	Methyl acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB100212

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L2071-09A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M8732.D

Level: (TRACE/LOW/MED) LOW Date Received: 10/03/2012

% Moisture: not dec. Date Analyzed: 10/12/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	1.0	U
74-87-3	Chloromethane	1.0	U
75-01-4	Vinyl chloride	1.0	U
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	1.0	U
75-09-2	Methylene chloride	0.69	J
156-60-5	trans-1,2-Dichloroethene	1.0	U
1634-04-4	Methyl tert-butyl ether	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
74-97-5	Bromochloromethane	1.0	U
67-66-3	Chloroform	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
71-43-2	Benzene	1.0	U
79-01-6	Trichloroethene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U
108-90-7	Chlorobenzene	1.0	U
100-41-4	Ethylbenzene	1.0	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB100212

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L2071-09A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M8732.D

Level: (TRACE/LOW/MED) LOW Date Received: 10/03/2012

% Moisture: not dec. Date Analyzed: 10/12/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
179601-23-1	m,p-Xylene	1.0	U
95-47-6	o-Xylene	1.0	U
100-42-5	Styrene	1.0	U
75-25-2	Bromoform	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U
123-91-1	1,4-Dioxane	100	U
110-82-7	Cyclohexane	1.0	U
79-20-9	Methyl acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-7

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L2071-10A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M8734.D

Level: (TRACE/LOW/MED) LOW Date Received: 10/05/2012

% Moisture: not dec. Date Analyzed: 10/12/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	1.0	U
74-87-3	Chloromethane	1.0	U
75-01-4	Vinyl chloride	7.8	
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U
75-35-4	1,1-Dichloroethene	4.6	
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	1.0	U
75-09-2	Methylene chloride	0.87	J
156-60-5	trans-1,2-Dichloroethene	1.1	
1634-04-4	Methyl tert-butyl ether	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	110	
74-97-5	Bromochloromethane	1.0	U
67-66-3	Chloroform	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
71-43-2	Benzene	1.0	U
79-01-6	Trichloroethene	120	
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	1.4	
10061-02-6	trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
127-18-4	Tetrachloroethene	9400	E
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U
108-90-7	Chlorobenzene	4.1	
100-41-4	Ethylbenzene	1.0	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-7

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L2071-10A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M8734.D

Level: (TRACE/LOW/MED) LOW Date Received: 10/05/2012

% Moisture: not dec. Date Analyzed: 10/12/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
179601-23-1	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.57	J
100-42-5	Styrene	1.0	U
75-25-2	Bromoform	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U
123-91-1	1,4-Dioxane	100	U
110-82-7	Cyclohexane	1.0	U
79-20-9	Methyl acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-7DL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L2071-10ADL

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M8760.D

Level: (TRACE/LOW/MED) LOW Date Received: 10/05/2012

% Moisture: not dec. Date Analyzed: 10/15/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1000.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	1000	U
74-87-3	Chloromethane	1000	U
75-01-4	Vinyl chloride	1000	U
74-83-9	Bromomethane	1000	U
75-00-3	Chloroethane	1000	U
75-69-4	Trichlorofluoromethane	1000	U
75-35-4	1,1-Dichloroethene	1000	U
67-64-1	Acetone	5000	U
75-15-0	Carbon disulfide	1000	U
75-09-2	Methylene chloride	1000	U
156-60-5	trans-1,2-Dichloroethene	1000	U
1634-04-4	Methyl tert-butyl ether	1000	U
75-34-3	1,1-Dichloroethane	1000	U
78-93-3	2-Butanone	5000	U
156-59-2	cis-1,2-Dichloroethene	1000	U
74-97-5	Bromochloromethane	1000	U
67-66-3	Chloroform	1000	U
71-55-6	1,1,1-Trichloroethane	1000	U
56-23-5	Carbon tetrachloride	1000	U
107-06-2	1,2-Dichloroethane	1000	U
71-43-2	Benzene	1000	U
79-01-6	Trichloroethene	1000	U
78-87-5	1,2-Dichloropropane	1000	U
75-27-4	Bromodichloromethane	1000	U
10061-01-5	cis-1,3-Dichloropropene	1000	U
108-10-1	4-Methyl-2-pentanone	5000	U
108-88-3	Toluene	1000	U
10061-02-6	trans-1,3-Dichloropropene	1000	U
79-00-5	1,1,2-Trichloroethane	1000	U
127-18-4	Tetrachloroethene	45000	D
591-78-6	2-Hexanone	5000	U
124-48-1	Dibromochloromethane	1000	U
106-93-4	1,2-Dibromoethane	1000	U
108-90-7	Chlorobenzene	1000	U
100-41-4	Ethylbenzene	1000	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-7DL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L2071-10ADL

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M8760.D

Level: (TRACE/LOW/MED) LOW Date Received: 10/05/2012

% Moisture: not dec. Date Analyzed: 10/15/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1000.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
179601-23-1	m,p-Xylene	1000	U
95-47-6	o-Xylene	1000	U
100-42-5	Styrene	1000	U
75-25-2	Bromoform	1000	U
98-82-8	Isopropylbenzene	1000	U
79-34-5	1,1,2,2-Tetrachloroethane	1000	U
541-73-1	1,3-Dichlorobenzene	1000	U
106-46-7	1,4-Dichlorobenzene	1000	U
95-50-1	1,2-Dichlorobenzene	1000	U
96-12-8	1,2-Dibromo-3-chloropropane	1000	U
120-82-1	1,2,4-Trichlorobenzene	1000	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1000	U
123-91-1	1,4-Dioxane	100000	U
110-82-7	Cyclohexane	1000	U
79-20-9	Methyl acetate	1000	U
108-87-2	Methylcyclohexane	1000	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB100412

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L2071-11A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M8733.D

Level: (TRACE/LOW/MED) LOW Date Received: 10/05/2012

% Moisture: not dec. Date Analyzed: 10/12/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	1.0	U
74-87-3	Chloromethane	1.0	U
75-01-4	Vinyl chloride	1.0	U
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	1.0	U
75-09-2	Methylene chloride	0.69	J
156-60-5	trans-1,2-Dichloroethene	1.0	U
1634-04-4	Methyl tert-butyl ether	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
74-97-5	Bromochloromethane	1.0	U
67-66-3	Chloroform	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
71-43-2	Benzene	1.0	U
79-01-6	Trichloroethene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U
108-90-7	Chlorobenzene	1.0	U
100-41-4	Ethylbenzene	1.0	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB100412

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L2071-11A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M8733.D

Level: (TRACE/LOW/MED) LOW Date Received: 10/05/2012

% Moisture: not dec. Date Analyzed: 10/12/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
179601-23-1	m,p-Xylene	1.0	U
95-47-6	o-Xylene	1.0	U
100-42-5	Styrene	1.0	U
75-25-2	Bromoform	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U
123-91-1	1,4-Dioxane	100	U
110-82-7	Cyclohexane	1.0	U
79-20-9	Methyl acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MB-68638

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: MB-68638

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I0399.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 10/10/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	1.0	U
74-87-3	Chloromethane	1.0	U
75-01-4	Vinyl chloride	1.0	U
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	1.0	U
75-09-2	Methylene chloride	1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	U
1634-04-4	Methyl tert-butyl ether	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
74-97-5	Bromochloromethane	1.0	U
67-66-3	Chloroform	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
71-43-2	Benzene	1.0	U
79-01-6	Trichloroethene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U
108-90-7	Chlorobenzene	1.0	U
100-41-4	Ethylbenzene	1.0	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MB-68638

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: MB-68638

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I0399.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 10/10/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
179601-23-1	m,p-Xylene	1.0	U
95-47-6	o-Xylene	1.0	U
100-42-5	Styrene	1.0	U
75-25-2	Bromoform	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U
108-70-3	1,3,5-Trichlorobenzene	1.0	U
123-91-1	1,4-Dioxane	100	U
110-82-7	Cyclohexane	1.0	U
79-20-9	Methyl acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MB-68684

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: MB-68684

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I0438.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 10/11/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	1.0	U
74-87-3	Chloromethane	1.0	U
75-01-4	Vinyl chloride	1.0	U
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	1.0	U
75-09-2	Methylene chloride	1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	U
1634-04-4	Methyl tert-butyl ether	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
74-97-5	Bromochloromethane	1.0	U
67-66-3	Chloroform	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
71-43-2	Benzene	1.0	U
79-01-6	Trichloroethene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U
108-90-7	Chlorobenzene	1.0	U
100-41-4	Ethylbenzene	1.0	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MB-68684

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: MB-68684

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I0438.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 10/11/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
179601-23-1	m,p-Xylene	1.0	U
95-47-6	o-Xylene	1.0	U
100-42-5	Styrene	1.0	U
75-25-2	Bromoform	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U
123-91-1	1,4-Dioxane	100	U
110-82-7	Cyclohexane	1.0	U
79-20-9	Methyl acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MB-68716

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: MB-68716

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M8730.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 10/12/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	1.0	U
74-87-3	Chloromethane	1.0	U
75-01-4	Vinyl chloride	1.0	U
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	1.0	U
75-09-2	Methylene chloride	1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	U
1634-04-4	Methyl tert-butyl ether	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
74-97-5	Bromochloromethane	1.0	U
67-66-3	Chloroform	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
71-43-2	Benzene	1.0	U
79-01-6	Trichloroethene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U
108-90-7	Chlorobenzene	1.0	U
100-41-4	Ethylbenzene	1.0	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MB-68716

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: MB-68716

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M8730.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 10/12/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
179601-23-1	m,p-Xylene	1.0	U
95-47-6	o-Xylene	1.0	U
100-42-5	Styrene	1.0	U
75-25-2	Bromoform	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U
108-70-3	1,3,5-Trichlorobenzene	1.0	U
123-91-1	1,4-Dioxane	100	U
110-82-7	Cyclohexane	1.0	U
79-20-9	Methyl acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MB-68747

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: MB-68747

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M8756.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 10/15/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	1.0	U
74-87-3	Chloromethane	1.0	U
75-01-4	Vinyl chloride	1.0	U
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	1.0	U
75-09-2	Methylene chloride	1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	U
1634-04-4	Methyl tert-butyl ether	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
74-97-5	Bromochloromethane	1.0	U
67-66-3	Chloroform	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
71-43-2	Benzene	1.0	U
79-01-6	Trichloroethene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U
108-90-7	Chlorobenzene	1.0	U
100-41-4	Ethylbenzene	1.0	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MB-68747

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: MB-68747

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M8756.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 10/15/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
179601-23-1	m,p-Xylene	1.0	U
95-47-6	o-Xylene	1.0	U
100-42-5	Styrene	1.0	U
75-25-2	Bromoform	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U
108-70-3	1,3,5-Trichlorobenzene	1.0	U
123-91-1	1,4-Dioxane	100	U
110-82-7	Cyclohexane	1.0	U
79-20-9	Methyl acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCS-68638

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: LCS-68638

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I0395.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 10/10/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	27	
74-87-3	Chloromethane	41	
75-01-4	Vinyl chloride	41	
74-83-9	Bromomethane	41	
75-00-3	Chloroethane	41	
75-69-4	Trichlorofluoromethane	47	
75-35-4	1,1-Dichloroethene	45	
67-64-1	Acetone	73	
75-15-0	Carbon disulfide	47	
75-09-2	Methylene chloride	47	
156-60-5	trans-1,2-Dichloroethene	45	
1634-04-4	Methyl tert-butyl ether	49	
75-34-3	1,1-Dichloroethane	46	
78-93-3	2-Butanone	60	
156-59-2	cis-1,2-Dichloroethene	47	
74-97-5	Bromochloromethane	48	
67-66-3	Chloroform	46	
71-55-6	1,1,1-Trichloroethane	47	
56-23-5	Carbon tetrachloride	50	
107-06-2	1,2-Dichloroethane	49	
71-43-2	Benzene	47	
79-01-6	Trichloroethene	46	
78-87-5	1,2-Dichloropropane	47	
75-27-4	Bromodichloromethane	49	
10061-01-5	cis-1,3-Dichloropropene	51	
108-10-1	4-Methyl-2-pentanone	54	
108-88-3	Toluene	46	
10061-02-6	trans-1,3-Dichloropropene	52	
79-00-5	1,1,2-Trichloroethane	51	
127-18-4	Tetrachloroethene	47	
591-78-6	2-Hexanone	65	
124-48-1	Dibromochloromethane	50	
106-93-4	1,2-Dibromoethane	54	
108-90-7	Chlorobenzene	49	
100-41-4	Ethylbenzene	48	

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCS-68638

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: LCS-68638

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I0395.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 10/10/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
179601-23-1	m,p-Xylene	99	
95-47-6	o-Xylene	50	
100-42-5	Styrene	49	
75-25-2	Bromoform	53	
98-82-8	Isopropylbenzene	50	
79-34-5	1,1,2,2-Tetrachloroethane	54	
541-73-1	1,3-Dichlorobenzene	48	
106-46-7	1,4-Dichlorobenzene	48	
95-50-1	1,2-Dichlorobenzene	50	
96-12-8	1,2-Dibromo-3-chloropropane	61	
120-82-1	1,2,4-Trichlorobenzene	49	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	47	
108-70-3	1,3,5-Trichlorobenzene	47	
123-91-1	1,4-Dioxane	720	
110-82-7	Cyclohexane	50	
79-20-9	Methyl acetate	53	
108-87-2	Methylcyclohexane	50	

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCS-68684

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: LCS-68684

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I0434.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 10/11/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	47	
74-87-3	Chloromethane	45	
75-01-4	Vinyl chloride	46	
74-83-9	Bromomethane	46	
75-00-3	Chloroethane	44	
75-69-4	Trichlorofluoromethane	49	
75-35-4	1,1-Dichloroethene	46	
67-64-1	Acetone	49	
75-15-0	Carbon disulfide	45	
75-09-2	Methylene chloride	45	
156-60-5	trans-1,2-Dichloroethene	47	
1634-04-4	Methyl tert-butyl ether	47	
75-34-3	1,1-Dichloroethane	47	
78-93-3	2-Butanone	46	
156-59-2	cis-1,2-Dichloroethene	47	
74-97-5	Bromochloromethane	49	
67-66-3	Chloroform	46	
71-55-6	1,1,1-Trichloroethane	45	
56-23-5	Carbon tetrachloride	47	
107-06-2	1,2-Dichloroethane	48	
71-43-2	Benzene	46	
79-01-6	Trichloroethene	45	
78-87-5	1,2-Dichloropropane	45	
75-27-4	Bromodichloromethane	48	
10061-01-5	cis-1,3-Dichloropropene	48	
108-10-1	4-Methyl-2-pentanone	45	
108-88-3	Toluene	46	
10061-02-6	trans-1,3-Dichloropropene	50	
79-00-5	1,1,2-Trichloroethane	46	
127-18-4	Tetrachloroethene	45	
591-78-6	2-Hexanone	47	
124-48-1	Dibromochloromethane	49	
106-93-4	1,2-Dibromoethane	49	
108-90-7	Chlorobenzene	48	
100-41-4	Ethylbenzene	46	

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCS-68684

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: LCS-68684

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I0434.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 10/11/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
179601-23-1	m,p-Xylene	94	
95-47-6	o-Xylene	47	
100-42-5	Styrene	46	
75-25-2	Bromoform	45	
98-82-8	Isopropylbenzene	47	
79-34-5	1,1,2,2-Tetrachloroethane	46	
541-73-1	1,3-Dichlorobenzene	46	
106-46-7	1,4-Dichlorobenzene	45	
95-50-1	1,2-Dichlorobenzene	48	
96-12-8	1,2-Dibromo-3-chloropropane	45	
120-82-1	1,2,4-Trichlorobenzene	46	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	47	
123-91-1	1,4-Dioxane	670	
110-82-7	Cyclohexane	48	
79-20-9	Methyl acetate	43	
108-87-2	Methylcyclohexane	50	

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCS-68716

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: LCS-68716

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M8726.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 10/12/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	51	
74-87-3	Chloromethane	56	
75-01-4	Vinyl chloride	50	
74-83-9	Bromomethane	48	
75-00-3	Chloroethane	53	
75-69-4	Trichlorofluoromethane	52	
75-35-4	1,1-Dichloroethene	46	
67-64-1	Acetone	38	
75-15-0	Carbon disulfide	55	
75-09-2	Methylene chloride	43	
156-60-5	trans-1,2-Dichloroethene	49	
1634-04-4	Methyl tert-butyl ether	48	
75-34-3	1,1-Dichloroethane	52	
78-93-3	2-Butanone	47	
156-59-2	cis-1,2-Dichloroethene	48	
74-97-5	Bromochloromethane	51	
67-66-3	Chloroform	52	
71-55-6	1,1,1-Trichloroethane	53	
56-23-5	Carbon tetrachloride	52	
107-06-2	1,2-Dichloroethane	51	
71-43-2	Benzene	51	
79-01-6	Trichloroethene	50	
78-87-5	1,2-Dichloropropane	51	
75-27-4	Bromodichloromethane	51	
10061-01-5	cis-1,3-Dichloropropene	49	
108-10-1	4-Methyl-2-pentanone	50	
108-88-3	Toluene	50	
10061-02-6	trans-1,3-Dichloropropene	50	
79-00-5	1,1,2-Trichloroethane	48	
127-18-4	Tetrachloroethene	50	
591-78-6	2-Hexanone	48	
124-48-1	Dibromochloromethane	52	
106-93-4	1,2-Dibromoethane	50	
108-90-7	Chlorobenzene	52	
100-41-4	Ethylbenzene	51	

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCS-68716

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: LCS-68716

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M8726.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 10/12/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
179601-23-1	m,p-Xylene	100	
95-47-6	o-Xylene	50	
100-42-5	Styrene	53	
75-25-2	Bromoform	49	
98-82-8	Isopropylbenzene	51	
79-34-5	1,1,2,2-Tetrachloroethane	51	
541-73-1	1,3-Dichlorobenzene	52	
106-46-7	1,4-Dichlorobenzene	50	
95-50-1	1,2-Dichlorobenzene	51	
96-12-8	1,2-Dibromo-3-chloropropane	49	
120-82-1	1,2,4-Trichlorobenzene	51	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	51	
108-70-3	1,3,5-Trichlorobenzene	49	
123-91-1	1,4-Dioxane	890	
110-82-7	Cyclohexane	49	
79-20-9	Methyl acetate	48	
108-87-2	Methylcyclohexane	49	

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCS-68747

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: LCS-68747

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M8752.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 10/15/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	51	
74-87-3	Chloromethane	54	
75-01-4	Vinyl chloride	52	
74-83-9	Bromomethane	48	
75-00-3	Chloroethane	51	
75-69-4	Trichlorofluoromethane	58	
75-35-4	1,1-Dichloroethene	46	
67-64-1	Acetone	46	
75-15-0	Carbon disulfide	54	
75-09-2	Methylene chloride	42	
156-60-5	trans-1,2-Dichloroethene	49	
1634-04-4	Methyl tert-butyl ether	48	
75-34-3	1,1-Dichloroethane	50	
78-93-3	2-Butanone	48	
156-59-2	cis-1,2-Dichloroethene	48	
74-97-5	Bromochloromethane	52	
67-66-3	Chloroform	52	
71-55-6	1,1,1-Trichloroethane	55	
56-23-5	Carbon tetrachloride	55	
107-06-2	1,2-Dichloroethane	51	
71-43-2	Benzene	50	
79-01-6	Trichloroethene	50	
78-87-5	1,2-Dichloropropane	49	
75-27-4	Bromodichloromethane	51	
10061-01-5	cis-1,3-Dichloropropene	48	
108-10-1	4-Methyl-2-pentanone	49	
108-88-3	Toluene	48	
10061-02-6	trans-1,3-Dichloropropene	49	
79-00-5	1,1,2-Trichloroethane	47	
127-18-4	Tetrachloroethene	50	
591-78-6	2-Hexanone	49	
124-48-1	Dibromochloromethane	52	
106-93-4	1,2-Dibromoethane	48	
108-90-7	Chlorobenzene	51	
100-41-4	Ethylbenzene	50	

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCS-68747

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: LCS-68747

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M8752.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 10/15/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
179601-23-1	m,p-Xylene	100	
95-47-6	o-Xylene	50	
100-42-5	Styrene	51	
75-25-2	Bromoform	49	
98-82-8	Isopropylbenzene	51	
79-34-5	1,1,2,2-Tetrachloroethane	49	
541-73-1	1,3-Dichlorobenzene	51	
106-46-7	1,4-Dichlorobenzene	50	
95-50-1	1,2-Dichlorobenzene	52	
96-12-8	1,2-Dibromo-3-chloropropane	50	
120-82-1	1,2,4-Trichlorobenzene	51	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	56	
108-70-3	1,3,5-Trichlorobenzene	50	
123-91-1	1,4-Dioxane	1100	
110-82-7	Cyclohexane	53	
79-20-9	Methyl acetate	47	
108-87-2	Methylcyclohexane	52	

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCSD-68684

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: LCSD-68684

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I0435.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 10/11/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	53	
74-87-3	Chloromethane	50	
75-01-4	Vinyl chloride	50	
74-83-9	Bromomethane	48	
75-00-3	Chloroethane	48	
75-69-4	Trichlorofluoromethane	54	
75-35-4	1,1-Dichloroethene	50	
67-64-1	Acetone	48	
75-15-0	Carbon disulfide	50	
75-09-2	Methylene chloride	48	
156-60-5	trans-1,2-Dichloroethene	51	
1634-04-4	Methyl tert-butyl ether	51	
75-34-3	1,1-Dichloroethane	51	
78-93-3	2-Butanone	47	
156-59-2	cis-1,2-Dichloroethene	51	
74-97-5	Bromochloromethane	51	
67-66-3	Chloroform	51	
71-55-6	1,1,1-Trichloroethane	50	
56-23-5	Carbon tetrachloride	51	
107-06-2	1,2-Dichloroethane	51	
71-43-2	Benzene	50	
79-01-6	Trichloroethene	50	
78-87-5	1,2-Dichloropropane	48	
75-27-4	Bromodichloromethane	52	
10061-01-5	cis-1,3-Dichloropropene	53	
108-10-1	4-Methyl-2-pentanone	48	
108-88-3	Toluene	50	
10061-02-6	trans-1,3-Dichloropropene	54	
79-00-5	1,1,2-Trichloroethane	51	
127-18-4	Tetrachloroethene	49	
591-78-6	2-Hexanone	46	
124-48-1	Dibromochloromethane	52	
106-93-4	1,2-Dibromoethane	53	
108-90-7	Chlorobenzene	51	
100-41-4	Ethylbenzene	51	

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCSD-68684

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: LCSD-68684

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I0435.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 10/11/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
179601-23-1	m,p-Xylene	100	
95-47-6	o-Xylene	51	
100-42-5	Styrene	51	
75-25-2	Bromoform	48	
98-82-8	Isopropylbenzene	51	
79-34-5	1,1,2,2-Tetrachloroethane	50	
541-73-1	1,3-Dichlorobenzene	49	
106-46-7	1,4-Dichlorobenzene	48	
95-50-1	1,2-Dichlorobenzene	50	
96-12-8	1,2-Dibromo-3-chloropropane	48	
120-82-1	1,2,4-Trichlorobenzene	49	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	51	
123-91-1	1,4-Dioxane	980	
110-82-7	Cyclohexane	52	
79-20-9	Methyl acetate	46	
108-87-2	Methylcyclohexane	54	

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCSD-68716

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: LCSD-68716

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M8727.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 10/12/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	49	
74-87-3	Chloromethane	55	
75-01-4	Vinyl chloride	52	
74-83-9	Bromomethane	49	
75-00-3	Chloroethane	52	
75-69-4	Trichlorofluoromethane	51	
75-35-4	1,1-Dichloroethene	45	
67-64-1	Acetone	41	
75-15-0	Carbon disulfide	56	
75-09-2	Methylene chloride	43	
156-60-5	trans-1,2-Dichloroethene	50	
1634-04-4	Methyl tert-butyl ether	50	
75-34-3	1,1-Dichloroethane	51	
78-93-3	2-Butanone	50	
156-59-2	cis-1,2-Dichloroethene	49	
74-97-5	Bromochloromethane	51	
67-66-3	Chloroform	53	
71-55-6	1,1,1-Trichloroethane	53	
56-23-5	Carbon tetrachloride	53	
107-06-2	1,2-Dichloroethane	52	
71-43-2	Benzene	53	
79-01-6	Trichloroethene	50	
78-87-5	1,2-Dichloropropane	52	
75-27-4	Bromodichloromethane	53	
10061-01-5	cis-1,3-Dichloropropene	50	
108-10-1	4-Methyl-2-pentanone	49	
108-88-3	Toluene	51	
10061-02-6	trans-1,3-Dichloropropene	51	
79-00-5	1,1,2-Trichloroethane	49	
127-18-4	Tetrachloroethene	51	
591-78-6	2-Hexanone	50	
124-48-1	Dibromochloromethane	55	
106-93-4	1,2-Dibromoethane	53	
108-90-7	Chlorobenzene	53	
100-41-4	Ethylbenzene	53	

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCSD-68716

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: LCSD-68716

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M8727.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 10/12/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
179601-23-1	m,p-Xylene	110	
95-47-6	o-Xylene	53	
100-42-5	Styrene	55	
75-25-2	Bromoform	51	
98-82-8	Isopropylbenzene	53	
79-34-5	1,1,2,2-Tetrachloroethane	50	
541-73-1	1,3-Dichlorobenzene	52	
106-46-7	1,4-Dichlorobenzene	52	
95-50-1	1,2-Dichlorobenzene	51	
96-12-8	1,2-Dibromo-3-chloropropane	49	
120-82-1	1,2,4-Trichlorobenzene	51	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	49	
108-70-3	1,3,5-Trichlorobenzene	49	
123-91-1	1,4-Dioxane	910	
110-82-7	Cyclohexane	48	
79-20-9	Methyl acetate	47	
108-87-2	Methylcyclohexane	46	

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCSD-68747

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: LCSD-68747

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M8753.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 10/15/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	52	
74-87-3	Chloromethane	58	
75-01-4	Vinyl chloride	55	
74-83-9	Bromomethane	52	
75-00-3	Chloroethane	57	
75-69-4	Trichlorofluoromethane	60	
75-35-4	1,1-Dichloroethene	46	
67-64-1	Acetone	41	
75-15-0	Carbon disulfide	55	
75-09-2	Methylene chloride	43	
156-60-5	trans-1,2-Dichloroethene	51	
1634-04-4	Methyl tert-butyl ether	51	
75-34-3	1,1-Dichloroethane	53	
78-93-3	2-Butanone	53	
156-59-2	cis-1,2-Dichloroethene	50	
74-97-5	Bromochloromethane	55	
67-66-3	Chloroform	54	
71-55-6	1,1,1-Trichloroethane	56	
56-23-5	Carbon tetrachloride	57	
107-06-2	1,2-Dichloroethane	56	
71-43-2	Benzene	54	
79-01-6	Trichloroethene	53	
78-87-5	1,2-Dichloropropane	53	
75-27-4	Bromodichloromethane	56	
10061-01-5	cis-1,3-Dichloropropene	53	
108-10-1	4-Methyl-2-pentanone	54	
108-88-3	Toluene	53	
10061-02-6	trans-1,3-Dichloropropene	54	
79-00-5	1,1,2-Trichloroethane	52	
127-18-4	Tetrachloroethene	49	
591-78-6	2-Hexanone	51	
124-48-1	Dibromochloromethane	56	
106-93-4	1,2-Dibromoethane	52	
108-90-7	Chlorobenzene	53	
100-41-4	Ethylbenzene	53	

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCSD-68747

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: LCSD-68747

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M8753.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 10/15/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
179601-23-1	m,p-Xylene	110	
95-47-6	o-Xylene	53	
100-42-5	Styrene	54	
75-25-2	Bromoform	52	
98-82-8	Isopropylbenzene	52	
79-34-5	1,1,2,2-Tetrachloroethane	52	
541-73-1	1,3-Dichlorobenzene	54	
106-46-7	1,4-Dichlorobenzene	54	
95-50-1	1,2-Dichlorobenzene	53	
96-12-8	1,2-Dibromo-3-chloropropane	51	
120-82-1	1,2,4-Trichlorobenzene	52	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	57	
108-70-3	1,3,5-Trichlorobenzene	52	
123-91-1	1,4-Dioxane	1100	
110-82-7	Cyclohexane	53	
79-20-9	Methyl acetate	50	
108-87-2	Methylcyclohexane	54	

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-8MS

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L2071-05AMS

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M8742.D

Level: (TRACE/LOW/MED) LOW Date Received: 10/02/2012

% Moisture: not dec. Date Analyzed: 10/13/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	46	
74-87-3	Chloromethane	51	
75-01-4	Vinyl chloride	50	
74-83-9	Bromomethane	44	
75-00-3	Chloroethane	50	
75-69-4	Trichlorofluoromethane	50	
75-35-4	1,1-Dichloroethene	43	
67-64-1	Acetone	33	
75-15-0	Carbon disulfide	51	
75-09-2	Methylene chloride	38	
156-60-5	trans-1,2-Dichloroethene	45	
1634-04-4	Methyl tert-butyl ether	41	
75-34-3	1,1-Dichloroethane	45	
78-93-3	2-Butanone	42	
156-59-2	cis-1,2-Dichloroethene	45	
74-97-5	Bromochloromethane	47	
67-66-3	Chloroform	44	
71-55-6	1,1,1-Trichloroethane	46	
56-23-5	Carbon tetrachloride	47	
107-06-2	1,2-Dichloroethane	43	
71-43-2	Benzene	46	
79-01-6	Trichloroethene	45	
78-87-5	1,2-Dichloropropane	47	
75-27-4	Bromodichloromethane	44	
10061-01-5	cis-1,3-Dichloropropene	41	
108-10-1	4-Methyl-2-pentanone	41	
108-88-3	Toluene	45	
10061-02-6	trans-1,3-Dichloropropene	41	
79-00-5	1,1,2-Trichloroethane	44	
127-18-4	Tetrachloroethene	49	
591-78-6	2-Hexanone	39	
124-48-1	Dibromochloromethane	47	
106-93-4	1,2-Dibromoethane	45	
108-90-7	Chlorobenzene	46	
100-41-4	Ethylbenzene	46	

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-8MS

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L2071-05AMS

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M8742.D

Level: (TRACE/LOW/MED) LOW Date Received: 10/02/2012

% Moisture: not dec. Date Analyzed: 10/13/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
179601-23-1	m,p-Xylene	91	
95-47-6	o-Xylene	46	
100-42-5	Styrene	46	
75-25-2	Bromoform	43	
98-82-8	Isopropylbenzene	45	
79-34-5	1,1,2,2-Tetrachloroethane	44	
541-73-1	1,3-Dichlorobenzene	46	
106-46-7	1,4-Dichlorobenzene	44	
95-50-1	1,2-Dichlorobenzene	46	
96-12-8	1,2-Dibromo-3-chloropropane	38	
120-82-1	1,2,4-Trichlorobenzene	43	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	49	
123-91-1	1,4-Dioxane	480	
110-82-7	Cyclohexane	49	
79-20-9	Methyl acetate	31	
108-87-2	Methylcyclohexane	47	

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-8MSD

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L2071-05AMSD

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M8743.D

Level: (TRACE/LOW/MED) LOW Date Received: 10/02/2012

% Moisture: not dec. Date Analyzed: 10/13/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	52	
74-87-3	Chloromethane	54	
75-01-4	Vinyl chloride	52	
74-83-9	Bromomethane	46	
75-00-3	Chloroethane	52	
75-69-4	Trichlorofluoromethane	53	
75-35-4	1,1-Dichloroethene	44	
67-64-1	Acetone	37	
75-15-0	Carbon disulfide	52	
75-09-2	Methylene chloride	41	
156-60-5	trans-1,2-Dichloroethene	46	
1634-04-4	Methyl tert-butyl ether	43	
75-34-3	1,1-Dichloroethane	47	
78-93-3	2-Butanone	44	
156-59-2	cis-1,2-Dichloroethene	45	
74-97-5	Bromochloromethane	48	
67-66-3	Chloroform	47	
71-55-6	1,1,1-Trichloroethane	48	
56-23-5	Carbon tetrachloride	50	
107-06-2	1,2-Dichloroethane	46	
71-43-2	Benzene	48	
79-01-6	Trichloroethene	47	
78-87-5	1,2-Dichloropropane	48	
75-27-4	Bromodichloromethane	47	
10061-01-5	cis-1,3-Dichloropropene	44	
108-10-1	4-Methyl-2-pentanone	42	
108-88-3	Toluene	47	
10061-02-6	trans-1,3-Dichloropropene	43	
79-00-5	1,1,2-Trichloroethane	44	
127-18-4	Tetrachloroethene	49	
591-78-6	2-Hexanone	39	
124-48-1	Dibromochloromethane	48	
106-93-4	1,2-Dibromoethane	46	
108-90-7	Chlorobenzene	48	
100-41-4	Ethylbenzene	47	

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-8MSD

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L2071-05AMSD

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M8743.D

Level: (TRACE/LOW/MED) LOW Date Received: 10/02/2012

% Moisture: not dec. Date Analyzed: 10/13/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
179601-23-1	m,p-Xylene	97	
95-47-6	o-Xylene	47	
100-42-5	Styrene	48	
75-25-2	Bromoform	44	
98-82-8	Isopropylbenzene	47	
79-34-5	1,1,2,2-Tetrachloroethane	45	
541-73-1	1,3-Dichlorobenzene	47	
106-46-7	1,4-Dichlorobenzene	46	
95-50-1	1,2-Dichlorobenzene	47	
96-12-8	1,2-Dibromo-3-chloropropane	40	
120-82-1	1,2,4-Trichlorobenzene	43	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	53	
123-91-1	1,4-Dioxane	690	
110-82-7	Cyclohexane	50	
79-20-9	Methyl acetate	31	
108-87-2	Methylcyclohexane	49	

2B - FORM II VOA-2

WATER VOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Level: (TRACE or LOW) LOW

	EPA SAMPLE NO.	VDMC1 (DBFM) #	VDMC2 (DCE) #	VDMC3 (TOL) #	VDMC4 (BFB) #				TOT OUT
01	LCS-68638	96	104	102	99				0
02	MB-68638	99	101	97	93				0
03	MW-3	101	95	98	93				0
04	MW-6	99	96	98	91				0
05	MW-8	101	98	99	93				0
06	DUP	101	95	100	93				0
07	LCS-68684	99	98	103	100				0
08	LCSD-68684	98	102	102	99				0
09	MB-68684	101	93	97	94				0
10	MW-2	102	97	97	95				0
11	MW-1	101	92	98	93				0
12	MW-5	102	97	95	93				0
13	LCS-68716	103	98	100	101				0
14	LCSD-68716	101	88	101	102				0
15	MB-68716	99	95	99	99				0
16	TB100112	100	99	98	95				0
17	TB100212	100	97	100	98				0
18	TB100412	102	101	99	96				0
19	MW-7	99	93	126 *	103				1
20	MW-8MS	100	97	97	95				0
21	MW-8MSD	102	98	98	93				0
22	LCS-68747	106	96	98	100				0
23	LCSD-68747	105	100	97	97				0
24	MB-68747	105	99	98	96				0
25	MW-7DL	107	104	96	91				0

		QC LIMITS
VDMC1	(DBFM) Dibromofluoromethane	(85-115)
VDMC2	(DCE) = 1,2-Dichloroethane-d4	(70-120)
VDMC3	(TOL) = Toluene-d8	(85-120)
VDMC4	(BFB) = Bromofluorobenzene	(75-120)

Column to be used to flag recovery values

* Values outside of contract required QC limits

som111.10.27.A

3A - FORM III VOA-1

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix Spike - EPA Sample No.: MW-8 Level: (TRACE or LOW) LOW

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS %REC	#	QC. LIMITS REC.
Dichlorodifluoromethane	50.0000	0.0000	46.4035	93		30-155
Chloromethane	50.0000	0.0000	51.1989	102		40-125
Vinyl chloride	50.0000	0.0000	49.8784	100		50-145
Bromomethane	50.0000	0.0000	43.7996	88		30-145
Chloroethane	50.0000	0.0000	50.1149	100		60-135
Trichlorofluoromethane	50.0000	0.0000	50.1463	100		60-145
1,1-Dichloroethene	50.0000	0.0000	43.2353	86		70-130
Acetone	50.0000	0.0000	32.5476	65		40-140
Carbon disulfide	50.0000	0.0000	51.1194	102		35-160
Methylene chloride	50.0000	0.0000	37.8474	76		55-140
trans-1,2-Dichloroethene	50.0000	0.0000	45.3325	91		60-140
Methyl tert-butyl ether	50.0000	0.0000	40.9930	82		65-125
1,1-Dichloroethane	50.0000	0.0000	44.9310	90		70-135
2-Butanone	50.0000	0.0000	42.1562	84		30-150
cis-1,2-Dichloroethene	50.0000	0.0000	45.0095	90		70-125
Bromochloromethane	50.0000	0.0000	46.9802	94		65-130
Chloroform	50.0000	0.0000	44.0619	88		65-135
1,1,1-Trichloroethane	50.0000	0.0000	45.5955	91		65-130
Carbon tetrachloride	50.0000	0.0000	47.3501	95		65-140
1,2-Dichloroethane	50.0000	0.0000	42.9540	86		70-130
Benzene	50.0000	0.0000	46.3405	93		80-120
Trichloroethene	50.0000	0.0000	45.1270	90		70-125
1,2-Dichloropropane	50.0000	0.0000	46.7391	93		75-125
Bromodichloromethane	50.0000	0.0000	44.1047	88		75-120
cis-1,3-Dichloropropene	50.0000	0.0000	41.0202	82		70-130
4-Methyl-2-pentanone	50.0000	0.0000	40.5902	81		60-135
Toluene	50.0000	0.0000	45.0488	90		75-120
trans-1,3-Dichloropropene	50.0000	0.0000	41.1754	82		55-140
1,1,2-Trichloroethane	50.0000	0.0000	43.8136	88		75-125
Tetrachloroethene	50.0000	0.0000	48.5672	97		45-150
2-Hexanone	50.0000	0.0000	39.1565	78		55-130
Dibromochloromethane	50.0000	0.0000	46.7464	93		60-135
1,2-Dibromoethane	50.0000	0.0000	44.9250	90		80-120
Chlorobenzene	50.0000	0.0000	45.9921	92		80-120
Ethylbenzene	50.0000	0.0000	45.7265	91		75-125
m,p-Xylene	100.0000	0.0000	91.2773	91		75-130
o-Xylene	50.0000	0.0000	45.5225	91		80-120
Styrene	50.0000	0.0000	46.2034	92		65-135
Bromoform	50.0000	0.0000	42.9859	86		70-130
Isopropylbenzene	50.0000	0.0000	45.0699	90		75-125
1,1,2,2-Tetrachloroethane	50.0000	0.0000	44.0807	88		65-130
1,3-Dichlorobenzene	50.0000	0.0000	46.1490	92		75-125
1,4-Dichlorobenzene	50.0000	0.0000	44.3703	89		75-125
1,2-Dichlorobenzene	50.0000	0.0000	45.7856	92		70-120

3A - FORM III VOA-1

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix Spike - EPA Sample No.: MW-8 Level: (TRACE or LOW) LOW

1,2-Dibromo-3-chloropropan	50.0000	0.0000	38.3617	77		50-130
1,2,4-Trichlorobenzene	50.0000	0.0000	43.1281	86		65-135
1,2,3-Trichlorobenzene	50.0000	0.0000	39.4464	79		55-140
1,1,2-Trichloro-1,2,2-trif	50.0000	0.0000	48.9726	98		70-130
1,4-Dioxane	1000.0000	0.0000	481.2396	48	*	70-130
Cyclohexane	50.0000	0.0000	49.3668	99		70-130
Methyl acetate	50.0000	0.0000	30.5341	61	*	70-130
Methylcyclohexane	50.0000	0.0000	47.4818	95		70-130

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD %REC	#	%RPD	#	QC LIMITS RPD	QC LIMITS REC.
Dichlorodifluoromethane	50.0000	51.6402	103		11		0-40	30-155
Chloromethane	50.0000	53.8274	108		5		0-40	40-125
Vinyl chloride	50.0000	51.5555	103		3		0-40	50-145
Bromomethane	50.0000	45.5034	91		4		0-40	30-145
Chloroethane	50.0000	52.4339	105		5		0-40	60-135
Trichlorofluoromethane	50.0000	52.6571	105		5		0-40	60-145
1,1-Dichloroethene	50.0000	44.3917	89		3		0-40	70-130
Acetone	50.0000	37.2806	75		14		0-40	40-140
Carbon disulfide	50.0000	52.2864	105		2		0-40	35-160
Methylene chloride	50.0000	40.9978	82		8		0-40	55-140
trans-1,2-Dichloroethene	50.0000	45.9312	92		1		0-40	60-140
Methyl tert-butyl ether	50.0000	42.8140	86		4		0-40	65-125
1,1-Dichloroethane	50.0000	47.1577	94		5		0-40	70-135
2-Butanone	50.0000	43.6045	87		3		0-40	30-150
cis-1,2-Dichloroethene	50.0000	44.7937	90		0		0-40	70-125
Bromochloromethane	50.0000	47.6980	95		2		0-40	65-130
Chloroform	50.0000	46.6839	93		6		0-40	65-135
1,1,1-Trichloroethane	50.0000	47.9289	96		5		0-40	65-130
Carbon tetrachloride	50.0000	49.8904	100		5		0-40	65-140
1,2-Dichloroethane	50.0000	46.1811	92		7		0-40	70-130
Benzene	50.0000	47.8914	96		3		0-40	80-120
Trichloroethene	50.0000	47.0110	94		4		0-40	70-125
1,2-Dichloropropane	50.0000	47.9394	96		3		0-40	75-125
Bromodichloromethane	50.0000	46.9360	94		6		0-40	75-120
cis-1,3-Dichloropropene	50.0000	43.5400	87		6		0-40	70-130
4-Methyl-2-pentanone	50.0000	42.2579	85		4		0-40	60-135
Toluene	50.0000	46.6358	93		3		0-40	75-120
trans-1,3-Dichloropropene	50.0000	43.1592	86		5		0-40	55-140
1,1,2-Trichloroethane	50.0000	43.9405	88		0		0-40	75-125
Tetrachloroethene	50.0000	48.8575	98		1		0-40	45-150
2-Hexanone	50.0000	38.6433	77		1		0-40	55-130
Dibromochloromethane	50.0000	48.1432	96		3		0-40	60-135
1,2-Dibromoethane	50.0000	46.4547	93		3		0-40	80-120
Chlorobenzene	50.0000	47.9713	96		4		0-40	80-120
Ethylbenzene	50.0000	47.1396	94		3		0-40	75-125

3A - FORM III VOA-1

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix Spike - EPA Sample No.: MW-8 Level: (TRACE or LOW) LOW

m,p-Xylene	100.0000	96.5735	97		6		0-40	75-130
o-Xylene	50.0000	47.0899	94		3		0-40	80-120
Styrene	50.0000	47.7806	96		3		0-40	65-135
Bromoform	50.0000	43.6235	87		1		0-40	70-130
Isopropylbenzene	50.0000	46.5456	93		3		0-40	75-125
1,1,2,2-Tetrachloroethane	50.0000	44.5571	89		1		0-40	65-130
1,3-Dichlorobenzene	50.0000	46.6247	93		1		0-40	75-125
1,4-Dichlorobenzene	50.0000	46.2115	92		4		0-40	75-125
1,2-Dichlorobenzene	50.0000	47.0206	94		3		0-40	70-120
1,2-Dibromo-3-chloropropan	50.0000	39.5726	79		3		0-40	50-130
1,2,4-Trichlorobenzene	50.0000	42.9379	86		0		0-40	65-135
1,2,3-Trichlorobenzene	50.0000	40.8916	82				0-40	55-140
1,1,2-Trichloro-1,2,2-trif	50.0000	52.9931	106		8		0-40	70-130
1,4-Dioxane	1000.0000	690.0081	69	*	36		0-40	70-130
Cyclohexane	50.0000	50.3860	101		2		0-40	70-130
Methyl acetate	50.0000	30.8908	62	*	1		0-40	70-130
Methylcyclohexane	50.0000	49.1739	98		4		0-40	70-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 52 outside limits

Spike Recovery: 4 out of 104 outside limits

COMMENTS:

3 - FORM III
WATER LABORATORY CONTROL
SAMPLE RECOVERY

EPA SAMPLE NO.
LCS-68638

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Lab Sample ID: LCS-68638 LCS Lot No.:

Date Extracted: 10/10/2012 Date Analyzed (1): 10/10/2012

COMPOUND	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS %REC	#	QC. LIMITS REC.
Dichlorodifluoromethane	50.0000	0.0000	26.5852	53		30 - 155
Chloromethane	50.0000	0.0000	40.6637	81		40 - 125
Vinyl chloride	50.0000	0.0000	41.0617	82		50 - 145
Bromomethane	50.0000	0.0000	41.4796	83		30 - 145
Chloroethane	50.0000	0.0000	40.8763	82		60 - 135
Trichlorofluoromethane	50.0000	0.0000	47.1115	94		60 - 145
1,1-Dichloroethene	50.0000	0.0000	44.5076	89		70 - 130
Acetone	50.0000	0.0000	73.2475	146	*	40 - 140
Carbon disulfide	50.0000	0.0000	46.5633	93		35 - 160
Methylene chloride	50.0000	0.0000	46.5455	93		55 - 140
trans-1,2-Dichloroethene	50.0000	0.0000	45.0946	90		60 - 140
Methyl tert-butyl ether	50.0000	0.0000	48.7550	98		65 - 125
1,1-Dichloroethane	50.0000	0.0000	46.2999	93		70 - 135
2-Butanone	50.0000	0.0000	60.4227	121		30 - 150
cis-1,2-Dichloroethene	50.0000	0.0000	46.8140	94		70 - 125
Bromochloromethane	50.0000	0.0000	47.8745	96		65 - 130
Chloroform	50.0000	0.0000	46.0195	92		65 - 135
1,1,1-Trichloroethane	50.0000	0.0000	46.7315	93		65 - 130
Carbon tetrachloride	50.0000	0.0000	49.8218	100		65 - 140
1,2-Dichloroethane	50.0000	0.0000	48.7967	98		70 - 130
Benzene	50.0000	0.0000	47.0015	94		80 - 120
Trichloroethene	50.0000	0.0000	45.8126	92		70 - 125
1,2-Dichloropropane	50.0000	0.0000	46.9190	94		75 - 125
Bromodichloromethane	50.0000	0.0000	49.4305	99		75 - 120
cis-1,3-Dichloropropene	50.0000	0.0000	50.8238	102		70 - 130
4-Methyl-2-pentanone	50.0000	0.0000	53.9283	108		60 - 135
Toluene	50.0000	0.0000	46.2570	93		75 - 120
trans-1,3-Dichloropropene	50.0000	0.0000	52.0375	104		55 - 140
1,1,2-Trichloroethane	50.0000	0.0000	51.2279	102		75 - 125
Tetrachloroethene	50.0000	0.0000	46.8717	94		45 - 150
2-Hexanone	50.0000	0.0000	64.8743	130		55 - 130
Dibromochloromethane	50.0000	0.0000	49.9870	100		60 - 135
1,2-Dibromoethane	50.0000	0.0000	53.7599	108		80 - 120
Chlorobenzene	50.0000	0.0000	49.2032	98		80 - 120
Ethylbenzene	50.0000	0.0000	48.1025	96		75 - 125
m,p-Xylene	100.0000	0.0000	99.2364	99		75 - 130
o-Xylene	50.0000	0.0000	49.5270	99		80 - 120
Styrene	50.0000	0.0000	49.3072	99		65 - 135
Bromoform	50.0000	0.0000	52.9628	106		70 - 130
Isopropylbenzene	50.0000	0.0000	49.7647	100		75 - 125
1,1,2,2-Tetrachloroethane	50.0000	0.0000	54.3089	109		65 - 130
1,3-Dichlorobenzene	50.0000	0.0000	48.3449	97		75 - 125
1,4-Dichlorobenzene	50.0000	0.0000	47.6672	95		75 - 125
1,2-Dichlorobenzene	50.0000	0.0000	50.0721	100		70 - 120

3 - FORM III
WATER LABORATORY CONTROL
SAMPLE RECOVERY

EPA SAMPLE NO.
LCS-68638

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Lab Sample ID: LCS-68638 LCS Lot No.:

Date Extracted: 10/10/2012 Date Analyzed (1): 10/10/2012

COMPOUND	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS %REC	#	QC. LIMITS REC.
1,2-Dibromo-3-chloropropan	50.0000	0.0000	61.2841	123		50 - 130
1,2,4-Trichlorobenzene	50.0000	0.0000	49.2603	99		65 - 135
1,1,2-Trichloro-1,2,2-trif	50.0000	0.0000	46.7814	94		70 - 130
1,3,5-Trichlorobenzene	50.0000	0.0000	47.4966	95		70 - 130
1,4-Dioxane	1000.0000	0.0000	724.9510	72		70 - 130
Cyclohexane	50.0000	0.0000	50.4753	101		70 - 130
Methyl acetate	50.0000	0.0000	52.5403	105		70 - 130
Methylcyclohexane	50.0000	0.0000	50.1622	100		70 - 130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 1 out of 52 outside limits

COMMENTS:

3 - FORM III

WATER LABORATORY CONTROL SAMPLE RECOVERY

EPA SAMPLE NO.

LCS-68684

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Lab Sample ID: LCS-68684 LCS Lot No.:

Date Extracted: 10/11/2012 Date Analyzed (1): 10/11/2012

COMPOUND	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS %REC	#	QC. LIMITS REC.
Dichlorodifluoromethane	50.0000	0.0000	47.2502	95		30 - 155
Chloromethane	50.0000	0.0000	45.4553	91		40 - 125
Vinyl chloride	50.0000	0.0000	45.9759	92		50 - 145
Bromomethane	50.0000	0.0000	45.7662	92		30 - 145
Chloroethane	50.0000	0.0000	44.0669	88		60 - 135
Trichlorofluoromethane	50.0000	0.0000	49.2772	99		60 - 145
1,1-Dichloroethene	50.0000	0.0000	45.7703	92		70 - 130
Acetone	50.0000	0.0000	48.6940	97		40 - 140
Carbon disulfide	50.0000	0.0000	45.4369	91		35 - 160
Methylene chloride	50.0000	0.0000	45.1962	90		55 - 140
trans-1,2-Dichloroethene	50.0000	0.0000	47.2911	95		60 - 140
Methyl tert-butyl ether	50.0000	0.0000	47.4288	95		65 - 125
1,1-Dichloroethane	50.0000	0.0000	46.7560	94		70 - 135
2-Butanone	50.0000	0.0000	45.9428	92		30 - 150
cis-1,2-Dichloroethene	50.0000	0.0000	46.8117	94		70 - 125
Bromochloromethane	50.0000	0.0000	48.6454	97		65 - 130
Chloroform	50.0000	0.0000	46.4748	93		65 - 135
1,1,1-Trichloroethane	50.0000	0.0000	44.5121	89		65 - 130
Carbon tetrachloride	50.0000	0.0000	46.7569	94		65 - 140
1,2-Dichloroethane	50.0000	0.0000	47.6525	95		70 - 130
Benzene	50.0000	0.0000	45.9328	92		80 - 120
Trichloroethene	50.0000	0.0000	45.0457	90		70 - 125
1,2-Dichloropropane	50.0000	0.0000	45.1255	90		75 - 125
Bromodichloromethane	50.0000	0.0000	48.0533	96		75 - 120
cis-1,3-Dichloropropene	50.0000	0.0000	47.6133	95		70 - 130
4-Methyl-2-pentanone	50.0000	0.0000	44.7391	89		60 - 135
Toluene	50.0000	0.0000	45.7174	91		75 - 120
trans-1,3-Dichloropropene	50.0000	0.0000	50.2676	101		55 - 140
1,1,2-Trichloroethane	50.0000	0.0000	46.1929	92		75 - 125
Tetrachloroethene	50.0000	0.0000	44.8302	90		45 - 150
2-Hexanone	50.0000	0.0000	47.3849	95		55 - 130
Dibromochloromethane	50.0000	0.0000	48.5856	97		60 - 135
1,2-Dibromoethane	50.0000	0.0000	49.2326	98		80 - 120
Chlorobenzene	50.0000	0.0000	47.5858	95		80 - 120
Ethylbenzene	50.0000	0.0000	46.2021	92		75 - 125
m,p-Xylene	100.0000	0.0000	94.4235	94		75 - 130
o-Xylene	50.0000	0.0000	46.9159	94		80 - 120
Styrene	50.0000	0.0000	45.8387	92		65 - 135
Bromoform	50.0000	0.0000	45.3080	91		70 - 130
Isopropylbenzene	50.0000	0.0000	47.0102	94		75 - 125
1,1,2,2-Tetrachloroethane	50.0000	0.0000	46.1026	92		65 - 130
1,3-Dichlorobenzene	50.0000	0.0000	46.3768	93		75 - 125
1,4-Dichlorobenzene	50.0000	0.0000	44.5000	89		75 - 125
1,2-Dichlorobenzene	50.0000	0.0000	47.6440	95		70 - 120

3 - FORM III
WATER LABORATORY CONTROL
SAMPLE RECOVERY

EPA SAMPLE NO.
LCS-68684

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Lab Sample ID: LCS-68684 LCS Lot No.:

Date Extracted: 10/11/2012 Date Analyzed (1): 10/11/2012

COMPOUND	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS %REC	#	QC. LIMITS REC.
1,2-Dibromo-3-chloropropan	50.0000	0.0000	45.3156	91		50 - 130
1,2,4-Trichlorobenzene	50.0000	0.0000	45.8015	92		65 - 135
1,1,2-Trichloro-1,2,2-trif	50.0000	0.0000	46.7462	93		70 - 130
1,4-Dioxane	1000.0000	0.0000	669.8104	67	*	70 - 130
Cyclohexane	50.0000	0.0000	48.1492	96		70 - 130
Methyl acetate	50.0000	0.0000	43.4815	87		70 - 130
Methylcyclohexane	50.0000	0.0000	50.3112	101		70 - 130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 1 out of 51 outside limits

COMMENTS:

3 - FORM III

WATER LABORATORY CONTROL

SAMPLE RECOVERY

EPA SAMPLE NO.

LCS-68716

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Lab Sample ID: LCS-68716 LCS Lot No.:

Date Extracted: 10/12/2012 Date Analyzed (1): 10/12/2012

COMPOUND	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS %REC	#	QC. LIMITS REC.
Dichlorodifluoromethane	50.0000	0.0000	51.1276	102		30 - 155
Chloromethane	50.0000	0.0000	55.5594	111		40 - 125
Vinyl chloride	50.0000	0.0000	50.0955	100		50 - 145
Bromomethane	50.0000	0.0000	48.2197	96		30 - 145
Chloroethane	50.0000	0.0000	53.0187	106		60 - 135
Trichlorofluoromethane	50.0000	0.0000	52.0101	104		60 - 145
1,1-Dichloroethene	50.0000	0.0000	45.8674	92		70 - 130
Acetone	50.0000	0.0000	38.4077	77		40 - 140
Carbon disulfide	50.0000	0.0000	55.1636	110		35 - 160
Methylene chloride	50.0000	0.0000	42.7539	86		55 - 140
trans-1,2-Dichloroethene	50.0000	0.0000	49.2129	98		60 - 140
Methyl tert-butyl ether	50.0000	0.0000	48.3638	97		65 - 125
1,1-Dichloroethane	50.0000	0.0000	52.3754	105		70 - 135
2-Butanone	50.0000	0.0000	47.3593	95		30 - 150
cis-1,2-Dichloroethene	50.0000	0.0000	47.6682	95		70 - 125
Bromochloromethane	50.0000	0.0000	50.8635	102		65 - 130
Chloroform	50.0000	0.0000	51.5068	103		65 - 135
1,1,1-Trichloroethane	50.0000	0.0000	52.6488	105		65 - 130
Carbon tetrachloride	50.0000	0.0000	51.9848	104		65 - 140
1,2-Dichloroethane	50.0000	0.0000	51.4929	103		70 - 130
Benzene	50.0000	0.0000	51.4248	103		80 - 120
Trichloroethene	50.0000	0.0000	49.5553	99		70 - 125
1,2-Dichloropropane	50.0000	0.0000	50.9961	102		75 - 125
Bromodichloromethane	50.0000	0.0000	50.8049	102		75 - 120
cis-1,3-Dichloropropene	50.0000	0.0000	48.5707	97		70 - 130
4-Methyl-2-pentanone	50.0000	0.0000	49.5279	99		60 - 135
Toluene	50.0000	0.0000	49.7324	99		75 - 120
trans-1,3-Dichloropropene	50.0000	0.0000	49.5252	99		55 - 140
1,1,2-Trichloroethane	50.0000	0.0000	47.6804	95		75 - 125
Tetrachloroethene	50.0000	0.0000	49.6748	99		45 - 150
2-Hexanone	50.0000	0.0000	48.2433	96		55 - 130
Dibromochloromethane	50.0000	0.0000	52.4844	105		60 - 135
1,2-Dibromoethane	50.0000	0.0000	50.2217	100		80 - 120
Chlorobenzene	50.0000	0.0000	52.0145	104		80 - 120
Ethylbenzene	50.0000	0.0000	51.3576	103		75 - 125
m,p-Xylene	100.0000	0.0000	103.1197	103		75 - 130
o-Xylene	50.0000	0.0000	50.3822	101		80 - 120
Styrene	50.0000	0.0000	53.1595	106		65 - 135
Bromoform	50.0000	0.0000	49.1980	98		70 - 130
Isopropylbenzene	50.0000	0.0000	51.3753	103		75 - 125
1,1,2,2-Tetrachloroethane	50.0000	0.0000	50.5149	101		65 - 130
1,3-Dichlorobenzene	50.0000	0.0000	52.0221	104		75 - 125
1,4-Dichlorobenzene	50.0000	0.0000	50.1263	100		75 - 125
1,2-Dichlorobenzene	50.0000	0.0000	51.1642	102		70 - 120

3 - FORM III
WATER LABORATORY CONTROL
SAMPLE RECOVERY

EPA SAMPLE NO.
LCS-68716

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Lab Sample ID: LCS-68716 LCS Lot No.:

Date Extracted: 10/12/2012 Date Analyzed (1): 10/12/2012

COMPOUND	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS %REC	#	QC. LIMITS REC.
1,2-Dibromo-3-chloropropan	50.0000	0.0000	49.4241	99		50 - 130
1,2,4-Trichlorobenzene	50.0000	0.0000	50.7370	101		65 - 135
1,1,2-Trichloro-1,2,2-trif	50.0000	0.0000	51.1963	102		70 - 130
1,3,5-Trichlorobenzene	50.0000	0.0000	48.7648	98		70 - 130
1,4-Dioxane	1000.0000	0.0000	887.2506	89		70 - 130
Cyclohexane	50.0000	0.0000	48.9227	98		70 - 130
Methyl acetate	50.0000	0.0000	48.4058	97		70 - 130
Methylcyclohexane	50.0000	0.0000	48.8959	98		70 - 130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 0 out of 52 outside limits

COMMENTS:

3 - FORM III

WATER LABORATORY CONTROL

SAMPLE RECOVERY

EPA SAMPLE NO.

LCS-68747

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Lab Sample ID: LCS-68747 LCS Lot No.:

Date Extracted: 10/15/2012 Date Analyzed (1): 10/15/2012

COMPOUND	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS %REC	#	QC. LIMITS REC.
Dichlorodifluoromethane	50.0000	0.0000	50.9760	102		30 - 155
Chloromethane	50.0000	0.0000	53.9904	108		40 - 125
Vinyl chloride	50.0000	0.0000	52.3066	105		50 - 145
Bromomethane	50.0000	0.0000	47.8534	96		30 - 145
Chloroethane	50.0000	0.0000	51.2164	102		60 - 135
Trichlorofluoromethane	50.0000	0.0000	57.9743	116		60 - 145
1,1-Dichloroethene	50.0000	0.0000	45.9050	92		70 - 130
Acetone	50.0000	0.0000	46.4398	93		40 - 140
Carbon disulfide	50.0000	0.0000	53.9831	108		35 - 160
Methylene chloride	50.0000	0.0000	42.1726	84		55 - 140
trans-1,2-Dichloroethene	50.0000	0.0000	49.3118	99		60 - 140
Methyl tert-butyl ether	50.0000	0.0000	48.4526	97		65 - 125
1,1-Dichloroethane	50.0000	0.0000	50.0238	100		70 - 135
2-Butanone	50.0000	0.0000	48.3597	97		30 - 150
cis-1,2-Dichloroethene	50.0000	0.0000	47.6180	95		70 - 125
Bromochloromethane	50.0000	0.0000	52.1635	104		65 - 130
Chloroform	50.0000	0.0000	51.6386	103		65 - 135
1,1,1-Trichloroethane	50.0000	0.0000	54.6168	109		65 - 130
Carbon tetrachloride	50.0000	0.0000	54.9575	110		65 - 140
1,2-Dichloroethane	50.0000	0.0000	50.9956	102		70 - 130
Benzene	50.0000	0.0000	49.9052	100		80 - 120
Trichloroethene	50.0000	0.0000	50.1123	100		70 - 125
1,2-Dichloropropane	50.0000	0.0000	48.7942	98		75 - 125
Bromodichloromethane	50.0000	0.0000	51.0470	102		75 - 120
cis-1,3-Dichloropropene	50.0000	0.0000	47.6343	95		70 - 130
4-Methyl-2-pentanone	50.0000	0.0000	49.4259	99		60 - 135
Toluene	50.0000	0.0000	48.3820	97		75 - 120
trans-1,3-Dichloropropene	50.0000	0.0000	49.4255	99		55 - 140
1,1,2-Trichloroethane	50.0000	0.0000	46.8145	94		75 - 125
Tetrachloroethene	50.0000	0.0000	49.6524	99		45 - 150
2-Hexanone	50.0000	0.0000	49.3929	99		55 - 130
Dibromochloromethane	50.0000	0.0000	51.9012	104		60 - 135
1,2-Dibromoethane	50.0000	0.0000	48.4412	97		80 - 120
Chlorobenzene	50.0000	0.0000	50.7070	101		80 - 120
Ethylbenzene	50.0000	0.0000	49.8645	100		75 - 125
m,p-Xylene	100.0000	0.0000	102.0955	102		75 - 130
o-Xylene	50.0000	0.0000	50.1494	100		80 - 120
Styrene	50.0000	0.0000	50.9638	102		65 - 135
Bromoform	50.0000	0.0000	49.3145	99		70 - 130
Isopropylbenzene	50.0000	0.0000	50.8895	102		75 - 125
1,1,2,2-Tetrachloroethane	50.0000	0.0000	49.3174	99		65 - 130
1,3-Dichlorobenzene	50.0000	0.0000	51.0434	102		75 - 125
1,4-Dichlorobenzene	50.0000	0.0000	50.1946	100		75 - 125
1,2-Dichlorobenzene	50.0000	0.0000	51.9020	104		70 - 120

3 - FORM III
WATER LABORATORY CONTROL
SAMPLE RECOVERY

EPA SAMPLE NO.
LCS-68747

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Lab Sample ID: LCS-68747 LCS Lot No.:

Date Extracted: 10/15/2012 Date Analyzed (1): 10/15/2012

COMPOUND	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS %REC	#	QC. LIMITS REC.
1,2-Dibromo-3-chloropropan	50.0000	0.0000	50.1115	100		50 - 130
1,2,4-Trichlorobenzene	50.0000	0.0000	51.1729	102		65 - 135
1,1,2-Trichloro-1,2,2-trif	50.0000	0.0000	56.4288	113		70 - 130
1,3,5-Trichlorobenzene	50.0000	0.0000	50.0403	100		70 - 130
1,4-Dioxane	1000.0000	0.0000	1063.4825	106		70 - 130
Cyclohexane	50.0000	0.0000	53.0023	106		70 - 130
Methyl acetate	50.0000	0.0000	46.7036	93		70 - 130
Methylcyclohexane	50.0000	0.0000	51.8481	104		70 - 130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 0 out of 52 outside limits

COMMENTS:

3 - FORM III

WATER LABORATORY CONTROL

SAMPLE DUPLICATE RECOVERY

EPA SAMPLE NO.

LCSD-68684

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Lab Sample ID: LCSD-68684 LCS Lot No.:

COMPOUND	SPIKE ADDED	LCSD CONCENTRATION	LCSD %REC	#	%RPD	#	QC LIMITS RPD	QC LIMITS REC.
Dichlorodifluoromethane	50.0000	52.5210	105		10		40	30 - 155
Chloromethane	50.0000	49.9324	100		9		40	40 - 125
Vinyl chloride	50.0000	50.4378	101		9		40	50 - 145
Bromomethane	50.0000	47.9064	96		4		40	30 - 145
Chloroethane	50.0000	48.3130	97		10		40	60 - 135
Trichlorofluoromethane	50.0000	53.6767	107		8		40	60 - 145
1,1-Dichloroethene	50.0000	50.3532	101		9		40	70 - 130
Acetone	50.0000	47.7277	95		2		40	40 - 140
Carbon disulfide	50.0000	49.6555	99		8		40	35 - 160
Methylene chloride	50.0000	48.1357	96		6		40	55 - 140
trans-1,2-Dichloroethene	50.0000	50.7258	101		6		40	60 - 140
Methyl tert-butyl ether	50.0000	50.9354	102		7		40	65 - 125
1,1-Dichloroethane	50.0000	50.6747	101		7		40	70 - 135
2-Butanone	50.0000	46.7877	94		2		40	30 - 150
cis-1,2-Dichloroethene	50.0000	51.1418	102		8		40	70 - 125
Bromochloromethane	50.0000	50.8987	102		5		40	65 - 130
Chloroform	50.0000	50.6523	101		8		40	65 - 135
1,1,1-Trichloroethane	50.0000	50.3791	101		13		40	65 - 130
Carbon tetrachloride	50.0000	51.0937	102		8		40	65 - 140
1,2-Dichloroethane	50.0000	51.2647	103		8		40	70 - 130
Benzene	50.0000	50.2322	100		8		40	80 - 120
Trichloroethene	50.0000	50.0992	100		11		40	70 - 125
1,2-Dichloropropane	50.0000	47.8971	96		6		40	75 - 125
Bromodichloromethane	50.0000	52.4013	105		9		40	75 - 120
cis-1,3-Dichloropropene	50.0000	52.6368	105		10		40	70 - 130
4-Methyl-2-pentanone	50.0000	48.2370	96		8		40	60 - 135
Toluene	50.0000	49.8970	100		9		40	75 - 120
trans-1,3-Dichloropropene	50.0000	53.9086	108		7		40	55 - 140
1,1,2-Trichloroethane	50.0000	50.5171	101		9		40	75 - 125
Tetrachloroethene	50.0000	49.3496	99		10		40	45 - 150
2-Hexanone	50.0000	45.9690	92		3		40	55 - 130
Dibromochloromethane	50.0000	51.6224	103		6		40	60 - 135
1,2-Dibromoethane	50.0000	53.2874	107		9		40	80 - 120
Chlorobenzene	50.0000	50.9456	102		7		40	80 - 120
Ethylbenzene	50.0000	51.3138	103		11		40	75 - 125
m,p-Xylene	100.0000	101.5490	102		8		40	75 - 130
o-Xylene	50.0000	50.5642	101		7		40	80 - 120
Styrene	50.0000	50.5078	101		9		40	65 - 135
Bromoform	50.0000	47.7796	96		5		40	70 - 130
Isopropylbenzene	50.0000	51.0421	102		8		40	75 - 125
1,1,2,2-Tetrachloroethane	50.0000	49.9686	100		8		40	65 - 130
1,3-Dichlorobenzene	50.0000	49.1568	98		5		40	75 - 125
1,4-Dichlorobenzene	50.0000	47.6610	95		7		40	75 - 125
1,2-Dichlorobenzene	50.0000	50.3706	101		6		40	70 - 120
1,2-Dibromo-3-chloropropan	50.0000	48.2170	96		5		40	50 - 130
1,2,4-Trichlorobenzene	50.0000	49.1428	98		6		40	65 - 135

3 - FORM III
WATER LABORATORY CONTROL
SAMPLE DUPLICATE RECOVERY

EPA SAMPLE NO.
LCSD-68684

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Lab Sample ID: LCSD-68684 LCS Lot No.:

COMPOUND	SPIKE ADDED	LCSD CONCENTRATION	LCSD %REC	#	%RPD	#	QC LIMITS RPD	QC LIMITS REC.
1,1,2-Trichloro-1,2,2-trif	50.0000	51.3540	103		10		40	70 - 130
1,4-Dioxane	1000.0000	976.1728	98		38		40	70 - 130
Cyclohexane	50.0000	52.4467	105		9		40	70 - 130
Methyl acetate	50.0000	45.8778	92		6		40	70 - 130
Methylcyclohexane	50.0000	53.6136	107		6		40	70 - 130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 51 outside limits

Spike Recovery: 0 out of 51 outside limits

COMMENTS:

3 - FORM III

WATER LABORATORY CONTROL

SAMPLE DUPLICATE RECOVERY

EPA SAMPLE NO.

LCSD-68716

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Lab Sample ID: LCSD-68716 LCS Lot No.:

COMPOUND	SPIKE ADDED	LCSD CONCENTRATION	LCSD %REC	#	%RPD	#	QC LIMITS RPD	QC LIMITS REC.
Dichlorodifluoromethane	50.0000	48.5035	97		5		40	30 - 155
Chloromethane	50.0000	55.3748	111		0		40	40 - 125
Vinyl chloride	50.0000	51.6210	103		3		40	50 - 145
Bromomethane	50.0000	49.4791	99		3		40	30 - 145
Chloroethane	50.0000	52.3710	105		1		40	60 - 135
Trichlorofluoromethane	50.0000	50.6753	101		3		40	60 - 145
1,1-Dichloroethene	50.0000	44.7692	90		2		40	70 - 130
Acetone	50.0000	40.5784	81		5		40	40 - 140
Carbon disulfide	50.0000	56.0721	112		2		40	35 - 160
Methylene chloride	50.0000	43.0750	86		0		40	55 - 140
trans-1,2-Dichloroethene	50.0000	49.7535	100		2		40	60 - 140
Methyl tert-butyl ether	50.0000	49.5677	99		2		40	65 - 125
1,1-Dichloroethane	50.0000	51.0220	102		3		40	70 - 135
2-Butanone	50.0000	49.7676	100		5		40	30 - 150
cis-1,2-Dichloroethene	50.0000	48.6573	97		2		40	70 - 125
Bromochloromethane	50.0000	51.4331	103		1		40	65 - 130
Chloroform	50.0000	53.0648	106		3		40	65 - 135
1,1,1-Trichloroethane	50.0000	52.6516	105		0		40	65 - 130
Carbon tetrachloride	50.0000	53.3097	107		3		40	65 - 140
1,2-Dichloroethane	50.0000	51.9609	104		1		40	70 - 130
Benzene	50.0000	52.6424	105		2		40	80 - 120
Trichloroethene	50.0000	50.0869	100		1		40	70 - 125
1,2-Dichloropropane	50.0000	52.3861	105		3		40	75 - 125
Bromodichloromethane	50.0000	53.3619	107		5		40	75 - 120
cis-1,3-Dichloropropene	50.0000	50.0556	100		3		40	70 - 130
4-Methyl-2-pentanone	50.0000	49.3088	99		0		40	60 - 135
Toluene	50.0000	51.2638	103		4		40	75 - 120
trans-1,3-Dichloropropene	50.0000	51.2258	102		3		40	55 - 140
1,1,2-Trichloroethane	50.0000	48.7357	97		2		40	75 - 125
Tetrachloroethene	50.0000	51.4123	103		4		40	45 - 150
2-Hexanone	50.0000	49.6663	99		3		40	55 - 130
Dibromochloromethane	50.0000	54.5518	109		4		40	60 - 135
1,2-Dibromoethane	50.0000	52.7752	106		6		40	80 - 120
Chlorobenzene	50.0000	53.3995	107		3		40	80 - 120
Ethylbenzene	50.0000	52.8132	106		3		40	75 - 125
m,p-Xylene	100.0000	106.4701	106		3		40	75 - 130
o-Xylene	50.0000	52.7563	106		5		40	80 - 120
Styrene	50.0000	55.3839	111		5		40	65 - 135
Bromoform	50.0000	51.1944	102		4		40	70 - 130
Isopropylbenzene	50.0000	52.8300	106		3		40	75 - 125
1,1,2,2-Tetrachloroethane	50.0000	50.3997	101		0		40	65 - 130
1,3-Dichlorobenzene	50.0000	52.1882	104		0		40	75 - 125
1,4-Dichlorobenzene	50.0000	51.8073	104		4		40	75 - 125
1,2-Dichlorobenzene	50.0000	51.4943	103		1		40	70 - 120
1,2-Dibromo-3-chloropropan	50.0000	49.4031	99		0		40	50 - 130
1,2,4-Trichlorobenzene	50.0000	51.2510	103		2		40	65 - 135

3 - FORM III
WATER LABORATORY CONTROL
SAMPLE DUPLICATE RECOVERY

EPA SAMPLE NO.
LCSD-68716

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Lab Sample ID: LCSD-68716 LCS Lot No.:

COMPOUND	SPIKE ADDED	LCSD CONCENTRATION	LCSD %REC	#	%RPD	#	QC LIMITS RPD	QC LIMITS REC.
1,1,2-Trichloro-1,2,2-trif	50.0000	48.7246	97		5		40	70 - 130
1,3,5-Trichlorobenzene	50.0000	48.9918	98		0		40	70 - 130
1,4-Dioxane	1000.0000	905.1235	91		2		40	70 - 130
Cyclohexane	50.0000	48.0340	96		2		40	70 - 130
Methyl acetate	50.0000	46.6982	93		4		40	70 - 130
Methylcyclohexane	50.0000	46.3210	93		5		40	70 - 130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 52 outside limits

Spike Recovery: 0 out of 52 outside limits

COMMENTS:

3 - FORM III

WATER LABORATORY CONTROL

SAMPLE DUPLICATE RECOVERY

EPA SAMPLE NO.

LCSD-68747

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Lab Sample ID: LCSD-68747 LCS Lot No.:

COMPOUND	SPIKE ADDED	LCSD CONCENTRATION	LCSD %REC	#	%RPD	#	QC LIMITS RPD	QC LIMITS REC.
Dichlorodifluoromethane	50.0000	51.9343	104		2		40	30 - 155
Chloromethane	50.0000	58.3139	117		8		40	40 - 125
Vinyl chloride	50.0000	54.9901	110		5		40	50 - 145
Bromomethane	50.0000	52.0308	104		8		40	30 - 145
Chloroethane	50.0000	56.6409	113		10		40	60 - 135
Trichlorofluoromethane	50.0000	59.5692	119		3		40	60 - 145
1,1-Dichloroethene	50.0000	45.9660	92		0		40	70 - 130
Acetone	50.0000	41.0690	82		13		40	40 - 140
Carbon disulfide	50.0000	54.7798	110		2		40	35 - 160
Methylene chloride	50.0000	42.7209	85		1		40	55 - 140
trans-1,2-Dichloroethene	50.0000	50.7613	102		3		40	60 - 140
Methyl tert-butyl ether	50.0000	50.6844	101		4		40	65 - 125
1,1-Dichloroethane	50.0000	53.2346	106		6		40	70 - 135
2-Butanone	50.0000	53.4247	107		10		40	30 - 150
cis-1,2-Dichloroethene	50.0000	49.9592	100		5		40	70 - 125
Bromochloromethane	50.0000	55.0570	110		6		40	65 - 130
Chloroform	50.0000	53.6910	107		4		40	65 - 135
1,1,1-Trichloroethane	50.0000	55.8879	112		3		40	65 - 130
Carbon tetrachloride	50.0000	56.5450	113		3		40	65 - 140
1,2-Dichloroethane	50.0000	56.3839	113		10		40	70 - 130
Benzene	50.0000	53.6524	107		7		40	80 - 120
Trichloroethene	50.0000	52.5337	105		5		40	70 - 125
1,2-Dichloropropane	50.0000	53.3997	107		9		40	75 - 125
Bromodichloromethane	50.0000	55.5029	111		8		40	75 - 120
cis-1,3-Dichloropropene	50.0000	53.3891	107		12		40	70 - 130
4-Methyl-2-pentanone	50.0000	53.7554	108		9		40	60 - 135
Toluene	50.0000	52.9041	106		9		40	75 - 120
trans-1,3-Dichloropropene	50.0000	54.4111	109		10		40	55 - 140
1,1,2-Trichloroethane	50.0000	51.7013	103		9		40	75 - 125
Tetrachloroethene	50.0000	48.8256	98		1		40	45 - 150
2-Hexanone	50.0000	51.2139	102		3		40	55 - 130
Dibromochloromethane	50.0000	55.7148	111		7		40	60 - 135
1,2-Dibromoethane	50.0000	51.8065	104		7		40	80 - 120
Chlorobenzene	50.0000	53.1062	106		5		40	80 - 120
Ethylbenzene	50.0000	53.0095	106		6		40	75 - 125
m,p-Xylene	100.0000	106.1489	106		4		40	75 - 130
o-Xylene	50.0000	52.6085	105		5		40	80 - 120
Styrene	50.0000	53.6228	107		5		40	65 - 135
Bromoform	50.0000	52.3769	105		6		40	70 - 130
Isopropylbenzene	50.0000	52.0876	104		2		40	75 - 125
1,1,2,2-Tetrachloroethane	50.0000	52.3434	105		6		40	65 - 130
1,3-Dichlorobenzene	50.0000	54.2024	108		6		40	75 - 125
1,4-Dichlorobenzene	50.0000	53.6185	107		7		40	75 - 125
1,2-Dichlorobenzene	50.0000	53.4935	107		3		40	70 - 120
1,2-Dibromo-3-chloropropan	50.0000	51.1282	102		2		40	50 - 130
1,2,4-Trichlorobenzene	50.0000	52.1377	104		2		40	65 - 135

3 - FORM III
WATER LABORATORY CONTROL
SAMPLE DUPLICATE RECOVERY

EPA SAMPLE NO.
LCSD-68747

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Lab Sample ID: LCSD-68747 LCS Lot No.:

COMPOUND	SPIKE ADDED	LCSD CONCENTRATION	LCSD %REC	#	%RPD	#	QC LIMITS RPD	QC LIMITS REC.
1,1,2-Trichloro-1,2,2-trif	50.0000	57.0068	114		1		40	70 - 130
1,3,5-Trichlorobenzene	50.0000	52.3586	105		5		40	70 - 130
1,4-Dioxane	1000.0000	1062.1706	106		0		40	70 - 130
Cyclohexane	50.0000	53.2618	107		1		40	70 - 130
Methyl acetate	50.0000	50.1238	100		7		40	70 - 130
Methylcyclohexane	50.0000	53.5123	107		3		40	70 - 130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 52 outside limits

Spike Recovery: 0 out of 52 outside limits

COMMENTS:

4A - FORM IV VOA
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.
MB-68716

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Lab File ID: V1M8730.D Lab Sample ID: MB-68716

Instrument ID: V1

Matrix: (SOIL/SED/WATER) WATER Date Analyzed: 10/12/2012

Level: (TRACE or LOW/MED) LOW Time Analyzed: 21:14

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	LCS-68716	LCS-68716	V1M8726.D	19:30
02	LCSD-68716	LCSD-68716	V1M8727.D	19:56
03	TB100112	L2071-07A	V1M8731.D	21:41
04	TB100212	L2071-09A	V1M8732.D	22:06
05	TB100412	L2071-11A	V1M8733.D	22:33
06	MW-7	L2071-10A	V1M8734.D	22:59
07	MW-8MS	L2071-05AMS	V1M8742.D	2:25
08	MW-8MSD	L2071-05AMSD	V1M8743.D	2:50

COMMENTS:

4A - FORM IV VOA

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

MB-68747

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Lab File ID: V1M8756.D Lab Sample ID: MB-68747

Instrument ID: V1

Matrix: (SOIL/SED/WATER) WATER Date Analyzed: 10/15/2012

Level: (TRACE or LOW/MED) LOW Time Analyzed: 12:11

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	LCS-68747	LCS-68747	V1M8752.D	10:27
02	LCSD-68747	LCSD-68747	V1M8753.D	10:53
03	MW-7DL	L2071-10ADL	V1M8760.D	13:58

COMMENTS:

4A - FORM IV VOA

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

MB-68638

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Lab File ID: V6I0399.D Lab Sample ID: MB-68638

Instrument ID: V6

Matrix: (SOIL/SED/WATER) WATER Date Analyzed: 10/10/2012

Level: (TRACE or LOW/MED) LOW Time Analyzed: 13:26

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	LCS-68638	LCS-68638	V6I0395.D	11:35
02	MW-3	L2071-03A	V6I0409.D	17:23
03	MW-6	L2071-04A	V6I0410.D	17:46
04	MW-8	L2071-05A	V6I0411.D	18:10
05	DUP	L2071-06A	V6I0412.D	18:33

COMMENTS:

4A - FORM IV VOA

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

MB-68684

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Lab File ID: V6I0438.D Lab Sample ID: MB-68684

Instrument ID: V6

Matrix: (SOIL/SED/WATER) WATER Date Analyzed: 10/11/2012

Level: (TRACE or LOW/MED) LOW Time Analyzed: 18:41

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	LCS-68684	LCS-68684	V6I0434.D	17:07
02	LCSD-68684	LCSD-68684	V6I0435.D	17:30
03	MW-2	L2071-01A	V6I0443.D	20:38
04	MW-1	L2071-02A	V6I0444.D	21:02
05	MW-5	L2071-08A	V6I0445.D	21:26

COMMENTS:

8A - FORM VIII VOA

VOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

GC Column: DB-624 ID: 0.25 (mm) Init. Calib. Date(s): 10/12/2012 10/12/2012

EPA Sample No.(VSTD#####): VSTD0501O Date Analyzed: 10/12/2012

Lab File ID (Standard): V1M8725.D Time Analyzed: 19:04

Instrument ID: V1 Heated Purge: (Y/N) N

		IS1 (S1) AREA	#	RT	#	IS2 (S2) AREA	#	RT	#	IS3 (S3) AREA	#	RT	#
	12 HOUR STD	1015483		6.122		736788		9.755		368248		12.63	
	UPPER LIMIT	2030966		6.622		1473576		10.255		736496		13.13	
	LOWER LIMIT	507742		5.622		368394		9.255		184124		12.13	
	EPA SAMPLE NO.												
01	LCS-68716	1019724		6.136		744895		9.769		364689		12.644	
02	LCSD-68716	1018063		6.135		736538		9.788		369134		12.653	
03	MB-68716	1054049		6.135		763565		9.768		367037		12.643	
04	TB100112	1051459		6.146		777461		9.769		373623		12.644	
05	TB100212	1030328		6.126		751742		9.769		370388		12.634	
06	TB100412	1038668		6.126		764891		9.759		363764		12.634	
07	MW-7	1084373		6.136		633615		9.769		346561		12.635	
08	MW-8MS	1021845		6.116		758988		9.759		368491		12.634	
09	MW-8MSD	998110		6.126		743233		9.759		361883		12.634	

IS1 () = Fluorobenzene
IS2 () = Chlorobenzene-d5
IS3 () = 1,4-Dichlorobenzene-d4
AREA UPPER LIMIT = 200% (Low-Medium Volatiles) and 140% (Trace Volatiles) of internal standard area
AREA LOWER LIMIT = 50% (Low-Medium Volatiles) and 60% (Trace Volatiles) of internal standard area
RT UPPER LIMIT = +0.50 (Low-Medium Volatiles) and +0.33 (Trace Volatiles) minutes of internal standard RT
RT LOWER LIMIT = -0.50 (Low-Medium Volatiles) and -0.33 (Trace Volatiles) minutes of internal standard RT

Column used to flag values outside contract required QC limits with an asterisk.

8A - FORM VIII VOA

VOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

GC Column: DB-624 ID: 0.25 (mm) Init. Calib. Date(s): 10/12/2012 10/12/2012

EPA Sample No.(VSTD#####): VSTD0501P Date Analyzed: 10/15/2012

Lab File ID (Standard): V1M8751.D Time Analyzed: 9:44

Instrument ID: V1 Heated Purge: (Y/N) N

		IS1 (S1) AREA	#	RT	#	IS2 (S2) AREA	#	RT	#	IS3 (S3) AREA	#	RT	#
	12 HOUR STD	997436		6.146		747998		9.799		368791		12.664	
	UPPER LIMIT	1994872		6.646		1495996		10.299		737582		13.164	
	LOWER LIMIT	498718		5.646		373999		9.299		184396		12.164	
	EPA SAMPLE NO.												
01	LCS-68747	985517		6.146		729863		9.789		356645		12.664	
02	LCSD-68747	973466		6.165		749000		9.798		365757		12.664	
03	MB-68747	919060		6.155		681405		9.798		341892		12.663	
04	MW-7DL	898980		6.165		696094		9.808		342023		12.673	

IS1 () = Fluorobenzene
IS2 () = Chlorobenzene-d5
IS3 () = 1,4-Dichlorobenzene-d4
AREA UPPER LIMIT = 200% (Low-Medium Volatiles) and 140% (Trace Volatiles) of internal standard area
AREA LOWER LIMIT = 50% (Low-Medium Volatiles) and 60% (Trace Volatiles) of internal standard area
RT UPPER LIMIT = +0.50 (Low-Medium Volatiles) and +0.33 (Trace Volatiles) minutes of internal standard RT
RT LOWER LIMIT = -0.50 (Low-Medium Volatiles) and -0.33 (Trace Volatiles) minutes of internal standard RT

Column used to flag values outside contract required QC limits with an asterisk.

8A - FORM VIII VOA

VOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

GC Column: DB-624 ID: 0.25 (mm) Init. Calib. Date(s): 10/02/2012 10/02/2012

EPA Sample No.(VSTD#####): VSTD0506F Date Analyzed: 10/10/2012

Lab File ID (Standard): V6I0392.D Time Analyzed: 9:56

Instrument ID: V6 Heated Purge: (Y/N) N

		IS1 (S1) AREA	#	RT	#	IS2 (S2) AREA	#	RT	#	IS3 (S3) AREA	#	RT	#
	12 HOUR STD	454060		4.915		344561		7.862		210452		10.394	
	UPPER LIMIT	908120		5.415		689122		8.362		420904		10.894	
	LOWER LIMIT	227030		4.415		172281		7.362		105226		9.894	
	EPA SAMPLE NO.												
01	LCS-68638	437442		4.917		333802		7.852		201330		10.396	
02	MB-68638	423997		4.916		339793		7.863		189170		10.395	
03	MW-3	416049		4.918		331520		7.853		188758		10.397	
04	MW-6	419463		4.915		336245		7.862		187677		10.406	
05	MW-8	416548		4.916		329191		7.863		184514		10.395	
06	DUP	424204		4.915		337655		7.862		190056		10.406	

IS1 () = Fluorobenzene
IS2 () = Chlorobenzene-d5
IS3 () = 1,4-Dichlorobenzene-d4
AREA UPPER LIMIT = 200% (Low-Medium Volatiles) and 140% (Trace Volatiles) of internal standard area
AREA LOWER LIMIT = 50% (Low-Medium Volatiles) and 60% (Trace Volatiles) of internal standard area
RT UPPER LIMIT = +0.50 (Low-Medium Volatiles) and +0.33 (Trace Volatiles) minutes of internal standard RT
RT LOWER LIMIT = -0.50 (Low-Medium Volatiles) and -0.33 (Trace Volatiles) minutes of internal standard RT

Column used to flag values outside contract required QC limits with an asterisk.

8A - FORM VIII VOA

VOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

GC Column: DB-624 ID: 0.25 (mm) Init. Calib. Date(s): 10/11/2012 10/11/2012

EPA Sample No.(VSTD#####): VSTD0506H Date Analyzed: 10/11/2012

Lab File ID (Standard): V6I0433.D Time Analyzed: 16:29

Instrument ID: V6 Heated Purge: (Y/N) N

		IS1 (S1) AREA	#	RT	#	IS2 (S2) AREA	#	RT	#	IS3 (S3) AREA	#	RT	#
	12 HOUR STD	459448		4.917		355406		7.852		217222		10.396	
	UPPER LIMIT	918896		5.417		710812		8.352		434444		10.896	
	LOWER LIMIT	229724		4.417		177703		7.352		108611		9.896	
	EPA SAMPLE NO.												
01	LCS-68684	471342		4.916		357198		7.850		216856		10.394	
02	LCSD-68684	440694		4.918		338693		7.853		207260		10.397	
03	MB-68684	416237		4.918		329486		7.853		183148		10.397	
04	MW-2	402250		4.917		320486		7.851		181445		10.395	
05	MW-1	393664		4.916		316641		7.851		178968		10.395	
06	MW-5	405836		4.919		324642		7.853		177587		10.397	

IS1 () = Fluorobenzene
IS2 () = Chlorobenzene-d5
IS3 () = 1,4-Dichlorobenzene-d4
AREA UPPER LIMIT = 200% (Low-Medium Volatiles) and 140% (Trace Volatiles) of internal standard area
AREA LOWER LIMIT = 50% (Low-Medium Volatiles) and 60% (Trace Volatiles) of internal standard area
RT UPPER LIMIT = +0.50 (Low-Medium Volatiles) and +0.33 (Trace Volatiles) minutes of internal standard RT
RT LOWER LIMIT = -0.50 (Low-Medium Volatiles) and -0.33 (Trace Volatiles) minutes of internal standard RT

Column used to flag values outside contract required QC limits with an asterisk.

* Semivolatile Organics *

REPORT NARRATIVE

Spectrum Analytical, Inc. Featuring Hanibal Technology, RI Division.

Client : ARCADIS U.S., Inc.

Project: S&S Dry Cleaners & Dyers

Laboratory Workorder / SDG #: L2071

SW846 8270D, SVOA by GC-MS

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code: SW846 8270D

IV. PREPARATION

Aqueous Samples were prepared following procedures in laboratory test code: SW3510

V. INSTRUMENTATION

The following instrumentation was used

Instrument Code: S6
Instrument Type: GCMS-Semi
Description: HP7890A
Manufacturer: Agilent
Model: 7890A/5973
GC Column used: 30 m X 0.25 mm ID [0.25 um thickness] Rxi-5sil MS capillary column.

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

Surrogate standard percent recoveries were within the QC limits.

D. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits.

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

Matrix spikes were performed on samples: MW-8 (L2071-05BMS) and MW-8 (L2071-05BMSD).

Percent recoveries were within the QC limits.

Replicate RPDs were within the advisory QC limits.

E. Internal Standards:

Internal standard peak areas were within the QC limits.

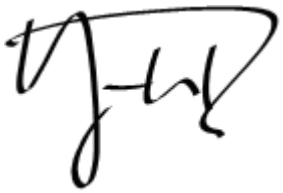
F. Dilutions:

No sample in this SDG required analysis at dilution.

G. Samples:

No other unusual occurrences were noted during sample analysis.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Signed:_____  _____

Date:_____10/23/2012_____

Data Flag/Qualifiers:

U Not Detected. This compound was analyzed-for but not detected. For most analyses the reporting limit (lowest standard concentration) is the value listed. For Department of Defense programs, this is the Limit of Detection (LOD).

J This flag indicates an estimated value due to either
- the compound was detected below the reporting limit, or
- estimated concentration for Tentatively Identified Compound

B This flag indicates the compound was also detected in the associated Method Blank. The B flag has an alternative meaning for Inorganics analyses reported using CLP ILM-type metals forms, indicating a "trace" concentration below the reporting limit and equal to or above the detection limit.

D For Organics analysis, this flag indicates the compound concentration was obtained from a secondary dilution analysis

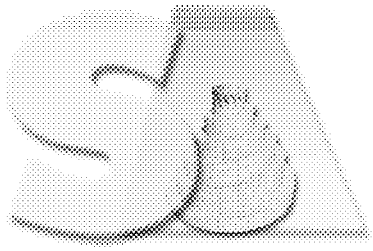
E This flag indicates the compound concentration exceeded the Calibration Range. The E flag has an alternative meaning for Inorganics analyses reported using CLP metals forms, indicating an estimated concentration due to the presence of interferences, as determined by the serial dilution analysis.

P This flag is used for pesticides/PCB/herbicide compound when there is a greater than 40% difference for detected concentration between the two GC columns used for primary and confirmation analyses. This difference typically indicates an interference, causing one value to be unusually high. The **lower** of the two values is generally reported on the Form 1, and both values reported on the Form 10.

A Used to flag semivolatile organic Tentatively Identified Compound library search results for compounds identified as aldol condensation byproducts.

N Used to flag results for volatile and semivolatile Organics analysis Tentatively Identified Compounds where an analyte has passed the identification criteria, and is considered to be positively identified. For Inorganics analysis the N flag indicates the matrix spike recovery falls outside of the control limit.

* For Inorganics analysis the * flag indicates Relative Percent Difference for duplicate analyses is outside of the control limit.



SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

Sample ID Suffixes

DL Diluted analysis. The sample was diluted and reanalyzed. The DL may be followed by a digit if more than one diluted reanalysis is provided. The DL suffix is not attached to an analysis initially performed at dilution, only to reanalyses performed at dilution

RE Reanalysis. Appended to the client sample ID to indicate a reextraction and reanalysis or a reanalysis of the original sample extract.

RA Reanalysis. Appended to the laboratory sample ID indicates a reanalysis of the original sample extract.

RX Reextraction. Appended to the laboratory sample ID indicates a reextraction of the sample.

MS Matrix Spike.

MSD Matrix Spike Duplicate

DUP Duplicate analysis

SD Serial Dilution

PS Post-digestion or Post-distillation spike. For metals or inorganic analyses

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-8

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L2071-05B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S6B0638.D

Level: (LOW/MED) LOW Extraction: (Type) SEPF

% Moisture: Decanted: (Y/N) Date Received: 10/02/2012

Concentrated Extract Volume: 1000 (uL) Date Extracted: 10/04/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 10/05/2012

GPC Cleanup:(Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	Bis(2-chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2´-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
120-83-2	2,4-Dichlorophenol	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
111-91-1	Bis(2-chloroethoxy)methane	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-8

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L2071-05B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S6B0638.D

Level: (LOW/MED) LOW Extraction: (Type) SEPF

% Moisture: Decanted: (Y/N) Date Received: 10/02/2012

Concentrated Extract Volume: 1000 (uL) Date Extracted: 10/04/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 10/05/2012

GPC Cleanup:(Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3´-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	Bis(2-ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U
92-52-4	1,1´-Biphenyl	10	U
95-94-3	1,2,4,5-Tetrachlorobenzene	10	U
58-90-2	2,3,4,6-Tetrachlorophenol	25	U
98-86-2	Acetophenone	10	U
1912-24-9	Atrazine	10	U
100-52-7	Benzaldehyde	10	U
105-60-2	Caprolactam	10	U

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DUP

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L2071-06B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S6B0641.D

Level: (LOW/MED) LOW Extraction: (Type) SEPF

% Moisture: Decanted: (Y/N) Date Received: 10/02/2012

Concentrated Extract Volume: 1000 (uL) Date Extracted: 10/04/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 10/05/2012

GPC Cleanup:(Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	Bis(2-chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2´-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
120-83-2	2,4-Dichlorophenol	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
111-91-1	Bis(2-chloroethoxy)methane	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DUP

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L2071-06B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S6B0641.D

Level: (LOW/MED) LOW Extraction: (Type) SEPF

% Moisture: Decanted: (Y/N) Date Received: 10/02/2012

Concentrated Extract Volume: 1000 (uL) Date Extracted: 10/04/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 10/05/2012

GPC Cleanup:(Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3´-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	Bis(2-ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U
92-52-4	1,1´-Biphenyl	10	U
95-94-3	1,2,4,5-Tetrachlorobenzene	10	U
58-90-2	2,3,4,6-Tetrachlorophenol	25	U
98-86-2	Acetophenone	10	U
1912-24-9	Atrazine	10	U
100-52-7	Benzaldehyde	10	U
105-60-2	Caprolactam	10	U

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-7

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L2071-10B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S6B0714.D

Level: (LOW/MED) LOW Extraction: (Type) SEPF

% Moisture: Decanted: (Y/N) Date Received: 10/05/2012

Concentrated Extract Volume: 1000 (uL) Date Extracted: 10/10/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 10/10/2012

GPC Cleanup:(Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	Bis(2-chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2´-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
120-83-2	2,4-Dichlorophenol	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
111-91-1	Bis(2-chloroethoxy)methane	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-7

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L2071-10B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S6B0714.D

Level: (LOW/MED) LOW Extraction: (Type) SEPF

% Moisture: Decanted: (Y/N) Date Received: 10/05/2012

Concentrated Extract Volume: 1000 (uL) Date Extracted: 10/10/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 10/10/2012

GPC Cleanup:(Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	1.1	J
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3´-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	Bis(2-ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U
92-52-4	1,1´-Biphenyl	10	U
95-94-3	1,2,4,5-Tetrachlorobenzene	10	U
58-90-2	2,3,4,6-Tetrachlorophenol	25	U
98-86-2	Acetophenone	10	U
1912-24-9	Atrazine	10	U
100-52-7	Benzaldehyde	10	U
105-60-2	Caprolactam	10	U

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MB-68525

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: MB-68525

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S6B0632.D

Level: (LOW/MED) LOW Extraction: (Type) SEPF

% Moisture: Decanted: (Y/N) Date Received:

Concentrated Extract Volume: 1000 (uL) Date Extracted: 10/04/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 10/05/2012

GPC Cleanup:(Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	Bis(2-chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2´-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
120-83-2	2,4-Dichlorophenol	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
111-91-1	Bis(2-chloroethoxy)methane	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MB-68525

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: MB-68525

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S6B0632.D

Level: (LOW/MED) LOW Extraction: (Type) SEPF

% Moisture: Decanted: (Y/N) Date Received:

Concentrated Extract Volume: 1000 (uL) Date Extracted: 10/04/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 10/05/2012

GPC Cleanup:(Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3´-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	Bis(2-ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U
92-52-4	1,1´-Biphenyl	10	U
95-94-3	1,2,4,5-Tetrachlorobenzene	10	U
58-90-2	2,3,4,6-Tetrachlorophenol	25	U
98-86-2	Acetophenone	10	U
1912-24-9	Atrazine	10	U
100-52-7	Benzaldehyde	10	U
105-60-2	Caprolactam	10	U

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MB-68635

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: MB-68635

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S6B0698.D

Level: (LOW/MED) LOW Extraction: (Type) SEPF

% Moisture: Decanted: (Y/N) Date Received:

Concentrated Extract Volume: 1000 (uL) Date Extracted: 10/10/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 10/10/2012

GPC Cleanup:(Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	Bis(2-chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2´-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
120-83-2	2,4-Dichlorophenol	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
111-91-1	Bis(2-chloroethoxy)methane	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MB-68635

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: MB-68635

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S6B0698.D

Level: (LOW/MED) LOW Extraction: (Type) SEPF

% Moisture: Decanted: (Y/N) Date Received:

Concentrated Extract Volume: 1000 (uL) Date Extracted: 10/10/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 10/10/2012

GPC Cleanup:(Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3´-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	Bis(2-ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U
92-52-4	1,1´-Biphenyl	10	U
95-94-3	1,2,4,5-Tetrachlorobenzene	10	U
58-90-2	2,3,4,6-Tetrachlorophenol	25	U
98-86-2	Acetophenone	10	U
1912-24-9	Atrazine	10	U
100-52-7	Benzaldehyde	10	U
105-60-2	Caprolactam	10	U

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCS-68525

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: LCS-68525

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S6B0633.D

Level: (LOW/MED) LOW Extraction: (Type) SEPF

% Moisture: Decanted: (Y/N) Date Received:

Concentrated Extract Volume: 1000 (uL) Date Extracted: 10/04/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 10/05/2012

GPC Cleanup:(Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	39	
111-44-4	Bis(2-chloroethyl)ether	40	
95-57-8	2-Chlorophenol	41	
95-48-7	2-Methylphenol	43	
108-60-1	2,2´-oxybis(1-Chloropropane)	45	
106-44-5	4-Methylphenol	42	
621-64-7	N-Nitroso-di-n-propylamine	37	
67-72-1	Hexachloroethane	38	
98-95-3	Nitrobenzene	52	
78-59-1	Isophorone	40	
88-75-5	2-Nitrophenol	42	
105-67-9	2,4-Dimethylphenol	50	
120-83-2	2,4-Dichlorophenol	40	
91-20-3	Naphthalene	41	
106-47-8	4-Chloroaniline	43	
111-91-1	Bis(2-chloroethoxy)methane	44	
87-68-3	Hexachlorobutadiene	37	
59-50-7	4-Chloro-3-methylphenol	42	
91-57-6	2-Methylnaphthalene	42	
77-47-4	Hexachlorocyclopentadiene	37	
88-06-2	2,4,6-Trichlorophenol	41	
95-95-4	2,4,5-Trichlorophenol	41	
91-58-7	2-Chloronaphthalene	44	
88-74-4	2-Nitroaniline	44	
131-11-3	Dimethylphthalate	45	
208-96-8	Acenaphthylene	44	
606-20-2	2,6-Dinitrotoluene	48	
99-09-2	3-Nitroaniline	51	
83-32-9	Acenaphthene	45	
51-28-5	2,4-Dinitrophenol	42	
100-02-7	4-Nitrophenol	41	
132-64-9	Dibenzofuran	42	
121-14-2	2,4-Dinitrotoluene	46	
84-66-2	Diethylphthalate	47	
7005-72-3	4-Chlorophenyl-phenylether	43	
86-73-7	Fluorene	45	

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCS-68525

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: LCS-68525

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S6B0633.D

Level: (LOW/MED) LOW Extraction: (Type) SEPF

% Moisture: Decanted: (Y/N) Date Received:

Concentrated Extract Volume: 1000 (uL) Date Extracted: 10/04/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 10/05/2012

GPC Cleanup:(Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-01-6	4-Nitroaniline	48	
534-52-1	4,6-Dinitro-2-methylphenol	50	
86-30-6	N-Nitrosodiphenylamine	45	
101-55-3	4-Bromophenyl-phenylether	41	
118-74-1	Hexachlorobenzene	42	
87-86-5	Pentachlorophenol	25	
85-01-8	Phenanthrene	47	
120-12-7	Anthracene	47	
86-74-8	Carbazole	48	
84-74-2	Di-n-butylphthalate	50	
206-44-0	Fluoranthene	48	
129-00-0	Pyrene	42	
85-68-7	Butylbenzylphthalate	48	
91-94-1	3,3´-Dichlorobenzidine	42	
56-55-3	Benzo(a)anthracene	47	
218-01-9	Chrysene	44	
117-81-7	Bis(2-ethylhexyl)phthalate	46	
117-84-0	Di-n-octylphthalate	47	
205-99-2	Benzo(b)fluoranthene	43	
207-08-9	Benzo(k)fluoranthene	43	
50-32-8	Benzo(a)pyrene	42	
193-39-5	Indeno(1,2,3-cd)pyrene	42	
53-70-3	Dibenzo(a,h)anthracene	42	
191-24-2	Benzo(g,h,i)perylene	41	
92-52-4	1,1´-Biphenyl	41	
95-94-3	1,2,4,5-Tetrachlorobenzene	65	
58-90-2	2,3,4,6-Tetrachlorophenol	37	
98-86-2	Acetophenone	36	
1912-24-9	Atrazine	49	
100-52-7	Benzaldehyde	8.9	J
105-60-2	Caprolactam	44	

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCS-68635

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: LCS-68635

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S6B0745.D

Level: (LOW/MED) LOW Extraction: (Type) SEPF

% Moisture: Decanted: (Y/N) Date Received:

Concentrated Extract Volume: 1000 (uL) Date Extracted: 10/10/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 10/11/2012

GPC Cleanup:(Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	37	
111-44-4	Bis(2-chloroethyl)ether	37	
95-57-8	2-Chlorophenol	39	
95-48-7	2-Methylphenol	38	
108-60-1	2,2´-oxybis(1-Chloropropane)	37	
106-44-5	4-Methylphenol	40	
621-64-7	N-Nitroso-di-n-propylamine	39	
67-72-1	Hexachloroethane	37	
98-95-3	Nitrobenzene	36	
78-59-1	Isophorone	38	
88-75-5	2-Nitrophenol	36	
105-67-9	2,4-Dimethylphenol	35	
120-83-2	2,4-Dichlorophenol	38	
91-20-3	Naphthalene	37	
106-47-8	4-Chloroaniline	42	
111-91-1	Bis(2-chloroethoxy)methane	36	
87-68-3	Hexachlorobutadiene	36	
59-50-7	4-Chloro-3-methylphenol	39	
91-57-6	2-Methylnaphthalene	38	
77-47-4	Hexachlorocyclopentadiene	42	
88-06-2	2,4,6-Trichlorophenol	40	
95-95-4	2,4,5-Trichlorophenol	39	
91-58-7	2-Chloronaphthalene	38	
88-74-4	2-Nitroaniline	40	
131-11-3	Dimethylphthalate	41	
208-96-8	Acenaphthylene	38	
606-20-2	2,6-Dinitrotoluene	42	
99-09-2	3-Nitroaniline	41	
83-32-9	Acenaphthene	39	
51-28-5	2,4-Dinitrophenol	38	
100-02-7	4-Nitrophenol	43	
132-64-9	Dibenzofuran	40	
121-14-2	2,4-Dinitrotoluene	41	
84-66-2	Diethylphthalate	41	
7005-72-3	4-Chlorophenyl-phenylether	40	
86-73-7	Fluorene	40	

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCS-68635

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: LCS-68635

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S6B0745.D

Level: (LOW/MED) LOW Extraction: (Type) SEPF

% Moisture: Decanted: (Y/N) Date Received:

Concentrated Extract Volume: 1000 (uL) Date Extracted: 10/10/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 10/11/2012

GPC Cleanup:(Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-01-6	4-Nitroaniline	40	
534-52-1	4,6-Dinitro-2-methylphenol	39	
86-30-6	N-Nitrosodiphenylamine	39	
101-55-3	4-Bromophenyl-phenylether	39	
118-74-1	Hexachlorobenzene	42	
87-86-5	Pentachlorophenol	45	
85-01-8	Phenanthrene	40	
120-12-7	Anthracene	40	
86-74-8	Carbazole	40	
84-74-2	Di-n-butylphthalate	41	
206-44-0	Fluoranthene	41	
129-00-0	Pyrene	40	
85-68-7	Butylbenzylphthalate	41	
91-94-1	3,3´-Dichlorobenzidine	33	
56-55-3	Benzo(a)anthracene	41	
218-01-9	Chrysene	39	
117-81-7	Bis(2-ethylhexyl)phthalate	40	
117-84-0	Di-n-octylphthalate	39	
205-99-2	Benzo(b)fluoranthene	41	
207-08-9	Benzo(k)fluoranthene	38	
50-32-8	Benzo(a)pyrene	39	
193-39-5	Indeno(1,2,3-cd)pyrene	39	
53-70-3	Dibenzo(a,h)anthracene	40	
191-24-2	Benzo(g,h,i)perylene	39	
92-52-4	1,1´-Biphenyl	36	
95-94-3	1,2,4,5-Tetrachlorobenzene	61	
58-90-2	2,3,4,6-Tetrachlorophenol	44	
98-86-2	Acetophenone	38	
1912-24-9	Atrazine	49	
100-52-7	Benzaldehyde	12	
105-60-2	Caprolactam	42	

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCSD-68635

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: LCSD-68635

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S6B0746.D

Level: (LOW/MED) LOW Extraction: (Type) SEPF

% Moisture: Decanted: (Y/N) Date Received:

Concentrated Extract Volume: 1000 (uL) Date Extracted: 10/10/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 10/11/2012

GPC Cleanup:(Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	36	
111-44-4	Bis(2-chloroethyl)ether	35	
95-57-8	2-Chlorophenol	38	
95-48-7	2-Methylphenol	36	
108-60-1	2,2´-oxybis(1-Chloropropane)	35	
106-44-5	4-Methylphenol	39	
621-64-7	N-Nitroso-di-n-propylamine	39	
67-72-1	Hexachloroethane	35	
98-95-3	Nitrobenzene	37	
78-59-1	Isophorone	39	
88-75-5	2-Nitrophenol	38	
105-67-9	2,4-Dimethylphenol	37	
120-83-2	2,4-Dichlorophenol	40	
91-20-3	Naphthalene	38	
106-47-8	4-Chloroaniline	42	
111-91-1	Bis(2-chloroethoxy)methane	37	
87-68-3	Hexachlorobutadiene	38	
59-50-7	4-Chloro-3-methylphenol	40	
91-57-6	2-Methylnaphthalene	37	
77-47-4	Hexachlorocyclopentadiene	45	
88-06-2	2,4,6-Trichlorophenol	41	
95-95-4	2,4,5-Trichlorophenol	41	
91-58-7	2-Chloronaphthalene	39	
88-74-4	2-Nitroaniline	39	
131-11-3	Dimethylphthalate	42	
208-96-8	Acenaphthylene	39	
606-20-2	2,6-Dinitrotoluene	43	
99-09-2	3-Nitroaniline	43	
83-32-9	Acenaphthene	41	
51-28-5	2,4-Dinitrophenol	37	
100-02-7	4-Nitrophenol	40	
132-64-9	Dibenzofuran	40	
121-14-2	2,4-Dinitrotoluene	42	
84-66-2	Diethylphthalate	42	
7005-72-3	4-Chlorophenyl-phenylether	43	
86-73-7	Fluorene	42	

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCSD-68635

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: LCSD-68635

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S6B0746.D

Level: (LOW/MED) LOW Extraction: (Type) SEPF

% Moisture: Decanted: (Y/N) Date Received:

Concentrated Extract Volume: 1000 (uL) Date Extracted: 10/10/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 10/11/2012

GPC Cleanup:(Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-01-6	4-Nitroaniline	41	
534-52-1	4,6-Dinitro-2-methylphenol	42	
86-30-6	N-Nitrosodiphenylamine	42	
101-55-3	4-Bromophenyl-phenylether	42	
118-74-1	Hexachlorobenzene	42	
87-86-5	Pentachlorophenol	50	
85-01-8	Phenanthrene	43	
120-12-7	Anthracene	42	
86-74-8	Carbazole	43	
84-74-2	Di-n-butylphthalate	43	
206-44-0	Fluoranthene	44	
129-00-0	Pyrene	41	
85-68-7	Butylbenzylphthalate	42	
91-94-1	3,3´-Dichlorobenzidine	35	
56-55-3	Benzo(a)anthracene	45	
218-01-9	Chrysene	40	
117-81-7	Bis(2-ethylhexyl)phthalate	41	
117-84-0	Di-n-octylphthalate	40	
205-99-2	Benzo(b)fluoranthene	42	
207-08-9	Benzo(k)fluoranthene	40	
50-32-8	Benzo(a)pyrene	41	
193-39-5	Indeno(1,2,3-cd)pyrene	40	
53-70-3	Dibenzo(a,h)anthracene	40	
191-24-2	Benzo(g,h,i)perylene	41	
92-52-4	1,1´-Biphenyl	37	
95-94-3	1,2,4,5-Tetrachlorobenzene	63	
58-90-2	2,3,4,6-Tetrachlorophenol	45	
98-86-2	Acetophenone	36	
1912-24-9	Atrazine	53	
100-52-7	Benzaldehyde	11	
105-60-2	Caprolactam	43	

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-8MS

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L2071-05BMS

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S6B0639.D

Level: (LOW/MED) LOW Extraction: (Type) SEPF

% Moisture: Decanted: (Y/N) Date Received: 10/02/2012

Concentrated Extract Volume: 1000 (uL) Date Extracted: 10/04/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 10/05/2012

GPC Cleanup:(Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	12	
111-44-4	Bis(2-chloroethyl)ether	37	
95-57-8	2-Chlorophenol	34	
95-48-7	2-Methylphenol	33	
108-60-1	2,2´-oxybis(1-Chloropropane)	42	
106-44-5	4-Methylphenol	28	
621-64-7	N-Nitroso-di-n-propylamine	36	
67-72-1	Hexachloroethane	34	
98-95-3	Nitrobenzene	46	
78-59-1	Isophorone	39	
88-75-5	2-Nitrophenol	39	
105-67-9	2,4-Dimethylphenol	45	
120-83-2	2,4-Dichlorophenol	40	
91-20-3	Naphthalene	39	
106-47-8	4-Chloroaniline	42	
111-91-1	Bis(2-chloroethoxy)methane	42	
87-68-3	Hexachlorobutadiene	36	
59-50-7	4-Chloro-3-methylphenol	41	
91-57-6	2-Methylnaphthalene	39	
77-47-4	Hexachlorocyclopentadiene	34	
88-06-2	2,4,6-Trichlorophenol	41	
95-95-4	2,4,5-Trichlorophenol	42	
91-58-7	2-Chloronaphthalene	42	
88-74-4	2-Nitroaniline	43	
131-11-3	Dimethylphthalate	45	
208-96-8	Acenaphthylene	44	
606-20-2	2,6-Dinitrotoluene	46	
99-09-2	3-Nitroaniline	52	
83-32-9	Acenaphthene	45	
51-28-5	2,4-Dinitrophenol	52	
100-02-7	4-Nitrophenol	16	J
132-64-9	Dibenzofuran	42	
121-14-2	2,4-Dinitrotoluene	47	
84-66-2	Diethylphthalate	46	
7005-72-3	4-Chlorophenyl-phenylether	43	
86-73-7	Fluorene	46	

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-8MS

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L2071-05BMS

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S6B0639.D

Level: (LOW/MED) LOW Extraction: (Type) SEPF

% Moisture: Decanted: (Y/N) Date Received: 10/02/2012

Concentrated Extract Volume: 1000 (uL) Date Extracted: 10/04/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 10/05/2012

GPC Cleanup:(Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-01-6	4-Nitroaniline	49	
534-52-1	4,6-Dinitro-2-methylphenol	51	
86-30-6	N-Nitrosodiphenylamine	46	
101-55-3	4-Bromophenyl-phenylether	42	
118-74-1	Hexachlorobenzene	43	
87-86-5	Pentachlorophenol	28	
85-01-8	Phenanthrene	48	
120-12-7	Anthracene	46	
86-74-8	Carbazole	49	
84-74-2	Di-n-butylphthalate	49	
206-44-0	Fluoranthene	47	
129-00-0	Pyrene	43	
85-68-7	Butylbenzylphthalate	48	
91-94-1	3,3´-Dichlorobenzidine	45	
56-55-3	Benzo(a)anthracene	47	
218-01-9	Chrysene	45	
117-81-7	Bis(2-ethylhexyl)phthalate	49	
117-84-0	Di-n-octylphthalate	48	
205-99-2	Benzo(b)fluoranthene	44	
207-08-9	Benzo(k)fluoranthene	45	
50-32-8	Benzo(a)pyrene	42	
193-39-5	Indeno(1,2,3-cd)pyrene	41	
53-70-3	Dibenzo(a,h)anthracene	42	
191-24-2	Benzo(g,h,i)perylene	40	
92-52-4	1,1´-Biphenyl	40	
95-94-3	1,2,4,5-Tetrachlorobenzene	61	
58-90-2	2,3,4,6-Tetrachlorophenol	39	
98-86-2	Acetophenone	36	
1912-24-9	Atrazine	49	
100-52-7	Benzaldehyde	35	
105-60-2	Caprolactam	11	

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-8MSD

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L2071-05BMSD

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S6B0640.D

Level: (LOW/MED) LOW Extraction: (Type) SEPF

% Moisture: Decanted: (Y/N) Date Received: 10/02/2012

Concentrated Extract Volume: 1000 (uL) Date Extracted: 10/04/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 10/05/2012

GPC Cleanup:(Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	12	
111-44-4	Bis(2-chloroethyl)ether	39	
95-57-8	2-Chlorophenol	36	
95-48-7	2-Methylphenol	33	
108-60-1	2,2´-oxybis(1-Chloropropane)	43	
106-44-5	4-Methylphenol	28	
621-64-7	N-Nitroso-di-n-propylamine	37	
67-72-1	Hexachloroethane	36	
98-95-3	Nitrobenzene	46	
78-59-1	Isophorone	39	
88-75-5	2-Nitrophenol	39	
105-67-9	2,4-Dimethylphenol	46	
120-83-2	2,4-Dichlorophenol	40	
91-20-3	Naphthalene	39	
106-47-8	4-Chloroaniline	42	
111-91-1	Bis(2-chloroethoxy)methane	43	
87-68-3	Hexachlorobutadiene	36	
59-50-7	4-Chloro-3-methylphenol	40	
91-57-6	2-Methylnaphthalene	38	
77-47-4	Hexachlorocyclopentadiene	34	
88-06-2	2,4,6-Trichlorophenol	42	
95-95-4	2,4,5-Trichlorophenol	41	
91-58-7	2-Chloronaphthalene	43	
88-74-4	2-Nitroaniline	44	
131-11-3	Dimethylphthalate	45	
208-96-8	Acenaphthylene	44	
606-20-2	2,6-Dinitrotoluene	46	
99-09-2	3-Nitroaniline	51	
83-32-9	Acenaphthene	45	
51-28-5	2,4-Dinitrophenol	51	
100-02-7	4-Nitrophenol	15	J
132-64-9	Dibenzofuran	41	
121-14-2	2,4-Dinitrotoluene	46	
84-66-2	Diethylphthalate	47	
7005-72-3	4-Chlorophenyl-phenylether	43	
86-73-7	Fluorene	45	

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-8MSD

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L2071-05BMSD

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S6B0640.D

Level: (LOW/MED) LOW Extraction: (Type) SEPF

% Moisture: Decanted: (Y/N) Date Received: 10/02/2012

Concentrated Extract Volume: 1000 (uL) Date Extracted: 10/04/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 10/05/2012

GPC Cleanup:(Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-01-6	4-Nitroaniline	48	
534-52-1	4,6-Dinitro-2-methylphenol	48	
86-30-6	N-Nitrosodiphenylamine	47	
101-55-3	4-Bromophenyl-phenylether	42	
118-74-1	Hexachlorobenzene	43	
87-86-5	Pentachlorophenol	26	
85-01-8	Phenanthrene	47	
120-12-7	Anthracene	47	
86-74-8	Carbazole	49	
84-74-2	Di-n-butylphthalate	49	
206-44-0	Fluoranthene	47	
129-00-0	Pyrene	42	
85-68-7	Butylbenzylphthalate	47	
91-94-1	3,3´-Dichlorobenzidine	44	
56-55-3	Benzo(a)anthracene	47	
218-01-9	Chrysene	43	
117-81-7	Bis(2-ethylhexyl)phthalate	47	
117-84-0	Di-n-octylphthalate	48	
205-99-2	Benzo(b)fluoranthene	42	
207-08-9	Benzo(k)fluoranthene	46	
50-32-8	Benzo(a)pyrene	42	
193-39-5	Indeno(1,2,3-cd)pyrene	40	
53-70-3	Dibenzo(a,h)anthracene	41	
191-24-2	Benzo(g,h,i)perylene	40	
92-52-4	1,1´-Biphenyl	41	
95-94-3	1,2,4,5-Tetrachlorobenzene	63	
58-90-2	2,3,4,6-Tetrachlorophenol	39	
98-86-2	Acetophenone	37	
1912-24-9	Atrazine	49	
100-52-7	Benzaldehyde	34	
105-60-2	Caprolactam	10	

2H - FORM II SV-2

WATER SEMIVOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

	EPA SAMPLE NO.	SDMC1 (NBZ) #	SDMC2 (FBP) #	SDMC3 (TPH) #	SDMC4 (PHL) #	SDMC5 (2FP) #	SDMC6 (TBP) #			TOT OUT
01	MB-68525	72	79	87	80	75	79			0
02	LCS-68525	75	81	79	86	71	78			0
03	MW-8	62	67	69	22	30	71			0
04	MW-8MS	72	78	77	27	31	80			0
05	MW-8MSD	73	79	72	28	36	81			0
06	DUP	73	79	75	27	40	75			0
07	MB-68635	66	69	82	61	64	81			0
08	MW-7	62	74	70	18	31	90			0
09	LCS-68635	71	75	78	73	61	84			0
10	LCSD-68635	70	75	83	71	65	82			0

		QC LIMITS
SDMC1	(NBZ) = Nitrobenzene-d5	(40-110)
SDMC2	(FBP) = 2-Fluorobiphenyl	(50-110)
SDMC3	(TPH) = Terphenyl-d14	(50-135)
SDMC4	(PHL) = Phenol-d5	(10-115)
SDMC5	(2FP) = 2-Fluorophenol	(20-110)
SDMC6	(TBP) = 2,4,6-Tribromophenol	(40-125)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D DMC diluted out

som111.10.27.A

3C - FORM III SV-1

WATER SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix Spike - EPA Sample No.: MW-8

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS %REC	#	QC. LIMITS REC.
Phenol	50.0000	0.0000	12.0790	24		0-115
Bis(2-chloroethyl)ether	50.0000	0.0000	36.8735	74		35-110
2-Chlorophenol	50.0000	0.0000	33.8143	68		35-105
2-Methylphenol	50.0000	0.0000	32.5197	65		40-110
2,2´-oxybis(1-Chloropropan	50.0000	0.0000	41.8114	84		30-123
4-Methylphenol	50.0000	0.0000	27.5316	55		30-110
N-Nitroso-di-n-propylamine	50.0000	0.0000	35.5636	71		35-130
Hexachloroethane	50.0000	0.0000	34.0096	68		30-95
Nitrobenzene	50.0000	0.0000	45.8857	92		45-110
Isophorone	50.0000	0.0000	38.7389	77		50-110
2-Nitrophenol	50.0000	0.0000	38.9032	78		40-115
2,4-Dimethylphenol	50.0000	0.0000	45.2663	91		30-110
2,4-Dichlorophenol	50.0000	0.0000	39.6392	79		50-105
Naphthalene	50.0000	0.0000	38.5852	77		40-100
4-Chloroaniline	50.0000	0.0000	42.4316	85		15-110
Bis(2-chloroethoxy)methane	50.0000	0.0000	42.2625	85		45-105
Hexachlorobutadiene	50.0000	0.0000	35.8986	72		25-105
4-Chloro-3-methylphenol	50.0000	0.0000	40.6203	81		45-110
2-Methylnaphthalene	50.0000	0.0000	38.5114	77		45-105
Hexachlorocyclopentadiene	50.0000	0.0000	33.5515	67		27-147
2,4,6-Trichlorophenol	50.0000	0.0000	40.9902	82		50-115
2,4,5-Trichlorophenol	50.0000	0.0000	42.1057	84		50-110
2-Chloronaphthalene	50.0000	0.0000	42.4874	85		50-105
2-Nitroaniline	50.0000	0.0000	42.9824	86		50-115
Dimethylphthalate	50.0000	0.0000	45.2516	91		25-125
Acenaphthylene	50.0000	0.0000	43.9772	88		50-105
2,6-Dinitrotoluene	50.0000	0.0000	46.2861	93		50-115
3-Nitroaniline	50.0000	0.0000	52.4249	105		20-125
Acenaphthene	50.0000	0.0000	44.7661	90		45-110
2,4-Dinitrophenol	50.0000	0.0000	51.7816	104		15-140
4-Nitrophenol	50.0000	0.0000	15.8002	32		0-125
Dibenzofuran	50.0000	0.0000	41.9615	84		55-105
2,4-Dinitrotoluene	50.0000	0.0000	46.9136	94		50-120
Diethylphthalate	50.0000	0.0000	46.3835	93		40-120
4-Chlorophenyl-phenylether	50.0000	0.0000	42.6523	85		50-110
Fluorene	50.0000	0.0000	45.8913	92		50-110
4-Nitroaniline	50.0000	0.0000	49.4462	99		35-120
4,6-Dinitro-2-methylphenol	50.0000	0.0000	50.5256	101		40-130
N-Nitrosodiphenylamine	50.0000	0.0000	46.2526	93		50-110
4-Bromophenyl-phenylether	50.0000	0.0000	41.6087	83		50-115
Hexachlorobenzene	50.0000	0.0000	43.2230	86		50-110
Pentachlorophenol	50.0000	0.0000	27.9954	56		40-115
Phenanthrene	50.0000	0.0000	47.7284	95		50-115
Anthracene	50.0000	0.0000	46.3582	93		55-110

3C - FORM III SV-1

WATER SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix Spike - EPA Sample No.: MW-8

Carbazole	50.0000	0.0000	48.8663	98		50-115
Di-n-butylphthalate	50.0000	0.0000	49.2795	99		55-115
Fluoranthene	50.0000	0.0000	47.3513	95		55-115
Pyrene	50.0000	0.0000	43.3052	87		50-130
Butylbenzylphthalate	50.0000	0.0000	48.2503	97		45-115
3,3´-Dichlorobenzidine	50.0000	0.0000	44.5426	89		20-110
Benzo(a)anthracene	50.0000	0.0000	47.2298	94		55-110
Chrysene	50.0000	0.0000	44.9174	90		55-110
Bis(2-ethylhexyl)phthalate	50.0000	0.0000	49.2006	98		40-125
Di-n-octylphthalate	50.0000	0.0000	48.1330	96		35-135
Benzo(b)fluoranthene	50.0000	0.0000	43.5913	87		45-120
Benzo(k)fluoranthene	50.0000	0.0000	45.3097	91		45-125
Benzo(a)pyrene	50.0000	0.0000	42.3559	85		55-110
Indeno(1,2,3-cd)pyrene	50.0000	0.0000	41.0934	82		45-125
Dibenzo(a,h)anthracene	50.0000	0.0000	41.6542	83		40-125
Benzo(g,h,i)perylene	50.0000	0.0000	39.6363	79		40-125
1,1´-Biphenyl	50.0000	0.0000	40.2030	80		55-108
1,2,4,5-Tetrachlorobenzene	50.0000	0.0000	61.4726	123		38-170
2,3,4,6-Tetrachlorophenol	50.0000	0.0000	38.9836	78		43-123
Acetophenone	50.0000	0.0000	35.6191	71		56-145
Atrazine	50.0000	0.0000	49.3390	99		52-175
Benzaldehyde	50.0000	0.0000	35.2281	70		10-133
Caprolactam	50.0000	0.0000	10.5446	21		10-146

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD %REC	#	%RPD	#	QC LIMITS RPD	QC LIMITS REC.
Phenol	50.0000	12.2799	25		2		0-40	0-115
Bis(2-chloroethyl)ether	50.0000	39.3128	79		6		0-40	35-110
2-Chlorophenol	50.0000	35.6185	71		5		0-40	35-105
2-Methylphenol	50.0000	32.6343	65		0		0-40	40-110
2,2´-oxybis(1-Chloropropan	50.0000	43.1438	86		3		0-40	30-123
4-Methylphenol	50.0000	28.1163	56		2		0-40	30-110
N-Nitroso-di-n-propylamine	50.0000	36.8720	74		4		0-40	35-130
Hexachloroethane	50.0000	36.0232	72		6		0-40	30-95
Nitrobenzene	50.0000	46.3035	93		1		0-40	45-110
Isophorone	50.0000	38.8976	78		0		0-40	50-110
2-Nitrophenol	50.0000	38.5931	77		1		0-40	40-115
2,4-Dimethylphenol	50.0000	46.2813	93		2		0-40	30-110
2,4-Dichlorophenol	50.0000	39.9458	80		1		0-40	50-105
Naphthalene	50.0000	38.9954	78		1		0-40	40-100
4-Chloroaniline	50.0000	41.9292	84		1		0-40	15-110
Bis(2-chloroethoxy)methane	50.0000	43.1799	86		2		0-40	45-105
Hexachlorobutadiene	50.0000	36.4441	73		2		0-40	25-105
4-Chloro-3-methylphenol	50.0000	40.1507	80		1		0-40	45-110
2-Methylnaphthalene	50.0000	37.6941	75		2		0-40	45-105
Hexachlorocyclopentadiene	50.0000	34.0747	68		2		0-40	27-147

3C - FORM III SV-1

WATER SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix Spike - EPA Sample No.: MW-8

2,4,6-Trichlorophenol	50.0000	42.4844	85		4		0-40	50-115
2,4,5-Trichlorophenol	50.0000	41.1581	82		2		0-40	50-110
2-Chloronaphthalene	50.0000	43.3421	87		2		0-40	50-105
2-Nitroaniline	50.0000	44.4181	89		3		0-40	50-115
Dimethylphthalate	50.0000	44.5861	89		1		0-40	25-125
Acenaphthylene	50.0000	44.2351	88		1		0-40	50-105
2,6-Dinitrotoluene	50.0000	46.4713	93		0		0-40	50-115
3-Nitroaniline	50.0000	50.7976	102		3		0-40	20-125
Acenaphthene	50.0000	44.9045	90		0		0-40	45-110
2,4-Dinitrophenol	50.0000	51.3457	103		1		0-40	15-140
4-Nitrophenol	50.0000	15.1652	30		4		0-40	0-125
Dibenzofuran	50.0000	41.3069	83		2		0-40	55-105
2,4-Dinitrotoluene	50.0000	45.8608	92		2		0-40	50-120
Diethylphthalate	50.0000	46.8684	94		1		0-40	40-120
4-Chlorophenyl-phenylether	50.0000	42.5670	85		0		0-40	50-110
Fluorene	50.0000	44.9082	90		2		0-40	50-110
4-Nitroaniline	50.0000	48.4985	97		2		0-40	35-120
4,6-Dinitro-2-methylphenol	50.0000	47.8524	96		5		0-40	40-130
N-Nitrosodiphenylamine	50.0000	47.0003	94		2		0-40	50-110
4-Bromophenyl-phenylether	50.0000	41.6963	83		0		0-40	50-115
Hexachlorobenzene	50.0000	42.7222	85		1		0-40	50-110
Pentachlorophenol	50.0000	25.5931	51		9		0-40	40-115
Phenanthrene	50.0000	46.9190	94		2		0-40	50-115
Anthracene	50.0000	46.6675	93		1		0-40	55-110
Carbazole	50.0000	48.6714	97		0		0-40	50-115
Di-n-butylphthalate	50.0000	48.8086	98		1		0-40	55-115
Fluoranthene	50.0000	47.2206	94		0		0-40	55-115
Pyrene	50.0000	42.2190	84		3		0-40	50-130
Butylbenzylphthalate	50.0000	46.6328	93		3		0-40	45-115
3,3´-Dichlorobenzidine	50.0000	44.3161	89		1		0-40	20-110
Benzo(a)anthracene	50.0000	47.1529	94		0		0-40	55-110
Chrysene	50.0000	43.4477	87		3		0-40	55-110
Bis(2-ethylhexyl)phthalate	50.0000	47.2106	94		4		0-40	40-125
Di-n-octylphthalate	50.0000	48.1083	96		0		0-40	35-135
Benzo(b)fluoranthene	50.0000	42.1871	84		3		0-40	45-120
Benzo(k)fluoranthene	50.0000	46.0295	92		2		0-40	45-125
Benzo(a)pyrene	50.0000	42.1257	84		1		0-40	55-110
Indeno(1,2,3-cd)pyrene	50.0000	40.2413	80		2		0-40	45-125
Dibenzo(a,h)anthracene	50.0000	41.2002	82		1		0-40	40-125
Benzo(g,h,i)perylene	50.0000	39.5140	79		0		0-40	40-125
1,1´-Biphenyl	50.0000	40.7634	82		1		0-40	55-108
1,2,4,5-Tetrachlorobenzene	50.0000	63.3891	127		3		0-40	38-170
2,3,4,6-Tetrachlorophenol	50.0000	38.6365	77		1		0-40	43-123
Acetophenone	50.0000	36.6540	73		3		0-40	56-145
Atrazine	50.0000	48.7550	98		1		0-40	52-175
Benzaldehyde	50.0000	34.1197	68		3		0-40	10-133
Caprolactam	50.0000	10.0049	20		5		0-40	10-146

3C - FORM III SV-1

WATER SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix Spike - EPA Sample No.: MW-8

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 67 outside limits

Spike Recovery: 0 out of 134 outside limits

COMMENTS:

3 - FORM III

WATER LABORATORY CONTROL

SAMPLE RECOVERY

EPA SAMPLE NO.

LCS-68525

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Lab Sample ID: LCS-68525 LCS Lot No.: A085069

Date Extracted: 10/04/2012 Date Analyzed (1): 10/05/2012

COMPOUND	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS %REC	#	QC. LIMITS REC.
Phenol	50.0000	0.0000	39.1850	78		0 - 115
Bis(2-chloroethyl)ether	50.0000	0.0000	39.9013	80		35 - 110
2-Chlorophenol	50.0000	0.0000	40.5701	81		35 - 105
2-Methylphenol	50.0000	0.0000	43.0173	86		40 - 110
2,2´-oxybis(1-Chloropropan	50.0000	0.0000	44.7188	89		30 - 123
4-Methylphenol	50.0000	0.0000	42.4256	85		30 - 110
N-Nitroso-di-n-propylamine	50.0000	0.0000	37.4981	75		35 - 130
Hexachloroethane	50.0000	0.0000	38.1701	76		30 - 95
Nitrobenzene	50.0000	0.0000	52.4390	105		45 - 110
Isophorone	50.0000	0.0000	40.1390	80		50 - 110
2-Nitrophenol	50.0000	0.0000	42.0671	84		40 - 115
2,4-Dimethylphenol	50.0000	0.0000	49.7112	99		30 - 110
2,4-Dichlorophenol	50.0000	0.0000	40.3096	81		50 - 105
Naphthalene	50.0000	0.0000	40.7751	82		40 - 100
4-Chloroaniline	50.0000	0.0000	43.3617	87		15 - 110
Bis(2-chloroethoxy)methane	50.0000	0.0000	44.3621	89		45 - 105
Hexachlorobutadiene	50.0000	0.0000	37.3815	75		25 - 105
4-Chloro-3-methylphenol	50.0000	0.0000	42.3583	85		45 - 110
2-Methylnaphthalene	50.0000	0.0000	41.9859	84		45 - 105
Hexachlorocyclopentadiene	50.0000	0.0000	36.7321	73		27 - 147
2,4,6-Trichlorophenol	50.0000	0.0000	41.3499	83		50 - 115
2,4,5-Trichlorophenol	50.0000	0.0000	40.8265	82		50 - 110
2-Chloronaphthalene	50.0000	0.0000	43.5869	87		50 - 105
2-Nitroaniline	50.0000	0.0000	44.4702	89		50 - 115
Dimethylphthalate	50.0000	0.0000	45.3822	91		25 - 125
Acenaphthylene	50.0000	0.0000	43.9148	88		50 - 105
2,6-Dinitrotoluene	50.0000	0.0000	48.4981	97		50 - 115
3-Nitroaniline	50.0000	0.0000	51.2298	102		20 - 125
Acenaphthene	50.0000	0.0000	45.2346	90		45 - 110
2,4-Dinitrophenol	50.0000	0.0000	42.2696	85		15 - 140
4-Nitrophenol	50.0000	0.0000	40.7791	82		0 - 125
Dibenzofuran	50.0000	0.0000	42.3844	85		55 - 105
2,4-Dinitrotoluene	50.0000	0.0000	45.8700	92		50 - 120
Diethylphthalate	50.0000	0.0000	46.5558	93		40 - 120
4-Chlorophenyl-phenylether	50.0000	0.0000	43.0589	86		50 - 110
Fluorene	50.0000	0.0000	45.1109	90		50 - 110
4-Nitroaniline	50.0000	0.0000	48.0799	96		35 - 120
4,6-Dinitro-2-methylphenol	50.0000	0.0000	49.9113	100		40 - 130
N-Nitrosodiphenylamine	50.0000	0.0000	45.1279	90		50 - 110
4-Bromophenyl-phenylether	50.0000	0.0000	40.5361	81		50 - 115
Hexachlorobenzene	50.0000	0.0000	42.1895	84		50 - 110
Pentachlorophenol	50.0000	0.0000	25.4385	51		40 - 115
Phenanthrene	50.0000	0.0000	47.3163	95		50 - 115
Anthracene	50.0000	0.0000	47.2061	94		55 - 110

3 - FORM III
WATER LABORATORY CONTROL
SAMPLE RECOVERY

EPA SAMPLE NO.
LCS-68525

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Lab Sample ID: LCS-68525 LCS Lot No.: A085069

Date Extracted: 10/04/2012 Date Analyzed (1): 10/05/2012

COMPOUND	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS %REC	#	QC. LIMITS REC.
Carbazole	50.0000	0.0000	47.6683	95		50 - 115
Di-n-butylphthalate	50.0000	0.0000	49.5711	99		55 - 115
Fluoranthene	50.0000	0.0000	47.7868	96		55 - 115
Pyrene	50.0000	0.0000	41.5687	83		50 - 130
Butylbenzylphthalate	50.0000	0.0000	47.8897	96		45 - 115
3,3´-Dichlorobenzidine	50.0000	0.0000	41.7719	84		20 - 110
Benzo(a)anthracene	50.0000	0.0000	46.8500	94		55 - 110
Chrysene	50.0000	0.0000	44.3830	89		55 - 110
Bis(2-ethylhexyl)phthalate	50.0000	0.0000	46.0412	92		40 - 125
Di-n-octylphthalate	50.0000	0.0000	46.8289	94		35 - 135
Benzo(b)fluoranthene	50.0000	0.0000	43.1063	86		45 - 120
Benzo(k)fluoranthene	50.0000	0.0000	43.4563	87		45 - 125
Benzo(a)pyrene	50.0000	0.0000	42.1855	84		55 - 110
Indeno(1,2,3-cd)pyrene	50.0000	0.0000	41.5843	83		45 - 125
Dibenzo(a,h)anthracene	50.0000	0.0000	41.7102	83		40 - 125
Benzo(g,h,i)perylene	50.0000	0.0000	40.9344	82		40 - 125
1,1´-Biphenyl	50.0000	0.0000	41.4549	83		55 - 108
1,2,4,5-Tetrachlorobenzene	50.0000	0.0000	64.6356	129		38 - 170
2,3,4,6-Tetrachlorophenol	50.0000	0.0000	37.0052	74		43 - 123
Acetophenone	50.0000	0.0000	36.0706	72		56 - 145
Atrazine	50.0000	0.0000	49.0079	98		52 - 175
Benzaldehyde	50.0000	0.0000	8.9416	18		10 - 133
Caprolactam	50.0000	0.0000	44.4829	89		10 - 146

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 0 out of 67 outside limits

COMMENTS:

3 - FORM III
WATER LABORATORY CONTROL
SAMPLE RECOVERY

EPA SAMPLE NO.
LCS-68635

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Lab Sample ID: LCS-68635 LCS Lot No.: A087697

Date Extracted: 10/10/2012 Date Analyzed (1): 10/11/2012

COMPOUND	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS %REC	#	QC. LIMITS REC.
Phenol	50.0000	0.0000	37.1494	74		0 - 115
Bis(2-chloroethyl)ether	50.0000	0.0000	37.0827	74		35 - 110
2-Chlorophenol	50.0000	0.0000	39.4423	79		35 - 105
2-Methylphenol	50.0000	0.0000	37.9844	76		40 - 110
2,2´-oxybis(1-Chloropropan	50.0000	0.0000	37.2494	74		30 - 123
4-Methylphenol	50.0000	0.0000	39.9430	80		30 - 110
N-Nitroso-di-n-propylamine	50.0000	0.0000	38.9796	78		35 - 130
Hexachloroethane	50.0000	0.0000	36.8063	74		30 - 95
Nitrobenzene	50.0000	0.0000	35.8193	72		45 - 110
Isophorone	50.0000	0.0000	38.2799	77		50 - 110
2-Nitrophenol	50.0000	0.0000	36.2695	73		40 - 115
2,4-Dimethylphenol	50.0000	0.0000	35.4062	71		30 - 110
2,4-Dichlorophenol	50.0000	0.0000	38.3097	77		50 - 105
Naphthalene	50.0000	0.0000	37.1929	74		40 - 100
4-Chloroaniline	50.0000	0.0000	41.5563	83		15 - 110
Bis(2-chloroethoxy)methane	50.0000	0.0000	36.3178	73		45 - 105
Hexachlorobutadiene	50.0000	0.0000	35.9711	72		25 - 105
4-Chloro-3-methylphenol	50.0000	0.0000	39.2508	79		45 - 110
2-Methylnaphthalene	50.0000	0.0000	37.7810	76		45 - 105
Hexachlorocyclopentadiene	50.0000	0.0000	41.6738	83		27 - 147
2,4,6-Trichlorophenol	50.0000	0.0000	39.5931	79		50 - 115
2,4,5-Trichlorophenol	50.0000	0.0000	39.3694	79		50 - 110
2-Chloronaphthalene	50.0000	0.0000	38.0751	76		50 - 105
2-Nitroaniline	50.0000	0.0000	39.7264	79		50 - 115
Dimethylphthalate	50.0000	0.0000	40.7065	81		25 - 125
Acenaphthylene	50.0000	0.0000	37.6301	75		50 - 105
2,6-Dinitrotoluene	50.0000	0.0000	42.3956	85		50 - 115
3-Nitroaniline	50.0000	0.0000	40.7819	82		20 - 125
Acenaphthene	50.0000	0.0000	39.1982	78		45 - 110
2,4-Dinitrophenol	50.0000	0.0000	38.0057	76		15 - 140
4-Nitrophenol	50.0000	0.0000	42.7224	85		0 - 125
Dibenzofuran	50.0000	0.0000	39.7880	80		55 - 105
2,4-Dinitrotoluene	50.0000	0.0000	40.9287	82		50 - 120
Diethylphthalate	50.0000	0.0000	41.3539	83		40 - 120
4-Chlorophenyl-phenylether	50.0000	0.0000	40.1772	80		50 - 110
Fluorene	50.0000	0.0000	40.4488	81		50 - 110
4-Nitroaniline	50.0000	0.0000	40.4112	81		35 - 120
4,6-Dinitro-2-methylphenol	50.0000	0.0000	38.8757	78		40 - 130
N-Nitrosodiphenylamine	50.0000	0.0000	39.4704	79		50 - 110
4-Bromophenyl-phenylether	50.0000	0.0000	39.4597	79		50 - 115
Hexachlorobenzene	50.0000	0.0000	41.6497	83		50 - 110
Pentachlorophenol	50.0000	0.0000	45.0455	90		40 - 115
Phenanthrene	50.0000	0.0000	39.5442	79		50 - 115
Anthracene	50.0000	0.0000	40.2353	80		55 - 110

3 - FORM III
WATER LABORATORY CONTROL
SAMPLE RECOVERY

EPA SAMPLE NO.
LCS-68635

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Lab Sample ID: LCS-68635 LCS Lot No.: A087697

Date Extracted: 10/10/2012 Date Analyzed (1): 10/11/2012

COMPOUND	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS %REC	#	QC. LIMITS REC.
Carbazole	50.0000	0.0000	39.7698	80		50 - 115
Di-n-butylphthalate	50.0000	0.0000	40.9043	82		55 - 115
Fluoranthene	50.0000	0.0000	41.4116	83		55 - 115
Pyrene	50.0000	0.0000	39.9951	80		50 - 130
Butylbenzylphthalate	50.0000	0.0000	40.5192	81		45 - 115
3,3´-Dichlorobenzidine	50.0000	0.0000	32.9548	66		20 - 110
Benzo(a)anthracene	50.0000	0.0000	41.0779	82		55 - 110
Chrysene	50.0000	0.0000	38.5618	77		55 - 110
Bis(2-ethylhexyl)phthalate	50.0000	0.0000	40.3211	81		40 - 125
Di-n-octylphthalate	50.0000	0.0000	38.8822	78		35 - 135
Benzo(b)fluoranthene	50.0000	0.0000	41.2158	82		45 - 120
Benzo(k)fluoranthene	50.0000	0.0000	38.1686	76		45 - 125
Benzo(a)pyrene	50.0000	0.0000	39.0413	78		55 - 110
Indeno(1,2,3-cd)pyrene	50.0000	0.0000	39.1476	78		45 - 125
Dibenzo(a,h)anthracene	50.0000	0.0000	40.2434	80		40 - 125
Benzo(g,h,i)perylene	50.0000	0.0000	39.4871	79		40 - 125
1,1´-Biphenyl	50.0000	0.0000	35.8237	72		55 - 108
1,2,4,5-Tetrachlorobenzene	50.0000	0.0000	60.5664	121		38 - 170
2,3,4,6-Tetrachlorophenol	50.0000	0.0000	43.8612	88		43 - 123
Acetophenone	50.0000	0.0000	37.6245	75		56 - 145
Atrazine	50.0000	0.0000	48.5316	97		52 - 175
Benzaldehyde	50.0000	0.0000	11.7873	24		10 - 133
Caprolactam	50.0000	0.0000	41.5724	83		10 - 146

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 0 out of 67 outside limits

COMMENTS:

3 - FORM III

WATER LABORATORY CONTROL

SAMPLE DUPLICATE RECOVERY

EPA SAMPLE NO.

LCSD-68635

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Lab Sample ID: LCSD-68635 LCS Lot No.: A087697

COMPOUND	SPIKE ADDED	LCSD CONCENTRATION	LCSD %REC	#	%RPD	#	QC LIMITS RPD	QC LIMITS REC.
Phenol	50.0000	36.0713	72		3		40	0 - 115
Bis(2-chloroethyl)ether	50.0000	35.2327	70		6		40	35 - 110
2-Chlorophenol	50.0000	38.4093	77		3		40	35 - 105
2-Methylphenol	50.0000	35.7558	72		5		40	40 - 110
2,2´-oxybis(1-Chloropropan	50.0000	35.0319	70		6		40	30 - 123
4-Methylphenol	50.0000	39.2474	78		3		40	30 - 110
N-Nitroso-di-n-propylamine	50.0000	38.8827	78		0		40	35 - 130
Hexachloroethane	50.0000	35.3683	71		4		40	30 - 95
Nitrobenzene	50.0000	36.8810	74		3		40	45 - 110
Isophorone	50.0000	38.5701	77		0		40	50 - 110
2-Nitrophenol	50.0000	37.8825	76		4		40	40 - 115
2,4-Dimethylphenol	50.0000	36.5884	73		3		40	30 - 110
2,4-Dichlorophenol	50.0000	39.7850	80		4		40	50 - 105
Naphthalene	50.0000	37.8613	76		3		40	40 - 100
4-Chloroaniline	50.0000	41.6835	83		0		40	15 - 110
Bis(2-chloroethoxy)methane	50.0000	37.2297	74		1		40	45 - 105
Hexachlorobutadiene	50.0000	37.6598	75		4		40	25 - 105
4-Chloro-3-methylphenol	50.0000	40.1539	80		1		40	45 - 110
2-Methylnaphthalene	50.0000	37.4370	75		1		40	45 - 105
Hexachlorocyclopentadiene	50.0000	44.9483	90		8		40	27 - 147
2,4,6-Trichlorophenol	50.0000	40.5550	81		3		40	50 - 115
2,4,5-Trichlorophenol	50.0000	41.3488	83		5		40	50 - 110
2-Chloronaphthalene	50.0000	39.1115	78		3		40	50 - 105
2-Nitroaniline	50.0000	39.2116	78		1		40	50 - 115
Dimethylphthalate	50.0000	41.8273	84		4		40	25 - 125
Acenaphthylene	50.0000	39.2617	79		5		40	50 - 105
2,6-Dinitrotoluene	50.0000	43.4941	87		2		40	50 - 115
3-Nitroaniline	50.0000	43.0184	86		5		40	20 - 125
Acenaphthene	50.0000	41.1594	82		5		40	45 - 110
2,4-Dinitrophenol	50.0000	37.3723	75		1		40	15 - 140
4-Nitrophenol	50.0000	40.2819	81		5		40	0 - 125
Dibenzofuran	50.0000	39.9925	80		0		40	55 - 105
2,4-Dinitrotoluene	50.0000	41.9826	84		2		40	50 - 120
Diethylphthalate	50.0000	42.3515	85		2		40	40 - 120
4-Chlorophenyl-phenylether	50.0000	43.1145	86		7		40	50 - 110
Fluorene	50.0000	42.1432	84		4		40	50 - 110
4-Nitroaniline	50.0000	41.3720	83		2		40	35 - 120
4,6-Dinitro-2-methylphenol	50.0000	41.9003	84		7		40	40 - 130
N-Nitrosodiphenylamine	50.0000	42.3731	85		7		40	50 - 110
4-Bromophenyl-phenylether	50.0000	42.1977	84		6		40	50 - 115
Hexachlorobenzene	50.0000	42.4197	85		2		40	50 - 110
Pentachlorophenol	50.0000	50.0832	100		11		40	40 - 115
Phenanthrene	50.0000	42.8964	86		8		40	50 - 115
Anthracene	50.0000	42.3211	85		6		40	55 - 110
Carbazole	50.0000	43.0119	86		7		40	50 - 115
Di-n-butylphthalate	50.0000	43.3151	87		6		40	55 - 115

3 - FORM III

WATER LABORATORY CONTROL

SAMPLE DUPLICATE RECOVERY

EPA SAMPLE NO.

LCSD-68635

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Lab Sample ID: LCSD-68635 LCS Lot No.: A087697

COMPOUND	SPIKE ADDED	LCSD CONCENTRATION	LCSD %REC	#	%RPD	#	QC LIMITS RPD	QC LIMITS REC.
Fluoranthene	50.0000	43.6972	87		5		40	55 - 115
Pyrene	50.0000	41.4481	83		4		40	50 - 130
Butylbenzylphthalate	50.0000	41.8775	84		4		40	45 - 115
3,3´-Dichlorobenzidine	50.0000	35.3426	71		7		40	20 - 110
Benzo(a)anthracene	50.0000	44.9342	90		9		40	55 - 110
Chrysene	50.0000	40.3213	81		5		40	55 - 110
Bis(2-ethylhexyl)phthalate	50.0000	41.2933	83		2		40	40 - 125
Di-n-octylphthalate	50.0000	40.4233	81		4		40	35 - 135
Benzo(b)fluoranthene	50.0000	41.7194	83		1		40	45 - 120
Benzo(k)fluoranthene	50.0000	39.7431	79		4		40	45 - 125
Benzo(a)pyrene	50.0000	41.2505	83		6		40	55 - 110
Indeno(1,2,3-cd)pyrene	50.0000	39.9231	80		3		40	45 - 125
Dibenzo(a,h)anthracene	50.0000	40.4997	81		1		40	40 - 125
Benzo(g,h,i)perylene	50.0000	40.6643	81		3		40	40 - 125
1,1´-Biphenyl	50.0000	37.0223	74		3		40	55 - 108
1,2,4,5-Tetrachlorobenzene	50.0000	63.2349	126		4		40	38 - 170
2,3,4,6-Tetrachlorophenol	50.0000	44.7923	90		2		40	43 - 123
Acetophenone	50.0000	36.4980	73		3		40	56 - 145
Atrazine	50.0000	52.6692	105		8		40	52 - 175
Benzaldehyde	50.0000	10.7003	21		13		40	10 - 133
Caprolactam	50.0000	42.9151	86		4		40	10 - 146

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 67 outside limits

Spike Recovery: 0 out of 67 outside limits

COMMENTS:

4C - FORM IV SV

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

MB-68525

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Lab File ID: S6B0632.D Lab Sample ID: MB-68525

Instrument ID: S6 Date Extracted: 10/04/2012

Matrix: (SOIL/SED/WATER) WATER Date Analyzed: 10/05/2012

Level: (LOW/MED) LOW Time Analyzed: 15:09

Extraction: (Type) SEPF GPC Cleanup: (Y/N) N

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	LCS-68525	LCS-68525	S6B0633.D	10/05/2012
02	MW-8	L2071-05B	S6B0638.D	10/05/2012
03	MW-8MS	L2071-05BMS	S6B0639.D	10/05/2012
04	MW-8MSD	L2071-05BMSD	S6B0640.D	10/05/2012
05	DUP	L2071-06B	S6B0641.D	10/05/2012

COMMENTS:

4C - FORM IV SV

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

MB-68635

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Lab File ID: S6B0698.D Lab Sample ID: MB-68635

Instrument ID: S6 Date Extracted: 10/10/2012

Matrix: (SOIL/SED/WATER) WATER Date Analyzed: 10/10/2012

Level: (LOW/MED) LOW Time Analyzed: 18:03

Extraction: (Type) SEPF GPC Cleanup: (Y/N) N

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	MW-7	L2071-10B	S6B0714.D	10/10/2012
02	LCS-68635	LCS-68635	S6B0745.D	10/11/2012
03	LCSD-68635	LCSD-68635	S6B0746.D	10/11/2012

COMMENTS:

8C - FORM VIII SV-1

SEMIVOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

GC Column: Rxi-5sil MS ID: 0.25 (mm) Init. Calib. Date(s): 08/09/2012 08/09/2012

EPA Sample No.(SSTD020##) SSTD0256C Date Analyzed: 10/05/2012

Lab File ID (Standard): S6B0631B.D Time Analyzed: 14:12

Instrument ID: S6

		IS1 (DCB) AREA	#	RT	#	IS2 (NPT) AREA	#	RT	#	IS3 (ANT) AREA	#	RT	#
	12 HOUR STD	121239		3.328		476436		4.491		352792		5.972	
	UPPER LIMIT	242478		3.828		952872		4.991		705584		6.472	
	LOWER LIMIT	60620		2.828		238218		3.991		176396		5.472	
	EPA SAMPLE NO.												
01	MB-68525	154588		3.322		620360		4.491		441685		5.966	
02	LCS-68525	173513		3.328		662740		4.497		457898		5.972	
03	MW-8	155393		3.322		603211		4.491		433019		5.966	
04	MW-8MS	174442		3.327		664316		4.497		470240		5.971	
05	MW-8MSD	176327		3.328		676859		4.497		471125		5.972	
06	DUP	131532		3.322		513090		4.491		367419		5.966	

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10
AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside contract required QC limits with an asterisk.

8D - FORM VIII SV-2

SEMIVOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

EPA Sample No.(SSTD020##) SSTD0256C Date Analyzed: 10/05/2012

Lab File ID (Standard): S6B0631B.D Time Analyzed: 14:12

Instrument ID: S6 GC Column: Rxi-5sil MS ID: 0.25 (mm)

		IS4 (PHN) AREA	#	RT	#	IS5 (CRY) AREA	#	RT	#	IS6 (PRY) AREA	#	RT	#
	12 HOUR STD	768342		7.182		931548		9.356		880519		10.525	
	UPPER LIMIT	1536684		7.682		1863096		9.856		1761038		11.025	
	LOWER LIMIT	384171		6.682		465774		8.856		440260		10.025	
	EPA SAMPLE NO.												
01	MB-68525	925565		7.176		1136433		9.379		1148000		10.607	
02	LCS-68525	980799		7.182		1255804		9.362		1190104		10.549	
03	MW-8	915392		7.176		1120000		9.350		1123384		10.537	
04	MW-8MS	989413		7.182		1206306		9.350		1142142		10.513	
05	MW-8MSD	976396		7.182		1228439		9.350		1142719		10.519	
06	DUP	784481		7.176		1028210		9.344		1043476		10.519	

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12
AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside contract required QC limits with an asterisk.

8C - FORM VIII SV-1

SEMIVOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

GC Column: Rxi-5sil MS ID: 0.25 (mm) Init. Calib. Date(s): 10/10/2012 10/10/2012

EPA Sample No.(SSTD020##) SSTD0256G Date Analyzed: 10/10/2012

Lab File ID (Standard): S6B0691.D Time Analyzed: 15:59

Instrument ID: S6

		IS1 (DCB) AREA	#	RT	#	IS2 (NPT) AREA	#	RT	#	IS3 (ANT) AREA	#	RT	#
	12 HOUR STD	146806		3.247		563635		4.411		366977		5.885	
	UPPER LIMIT	293612		3.747		1127270		4.911		733954		6.385	
	LOWER LIMIT	73403		2.747		281818		3.911		183489		5.385	
	EPA SAMPLE NO.												
01	MB-68635	140345		3.247		519424		4.411		357172		5.879	
02	MW-7	153312		3.241		580899		4.411		384034		5.880	

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10
AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside contract required QC limits with an asterisk.

8D - FORM VIII SV-2

SEMIVOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

EPA Sample No.(SSTD020##) SSTD0256G Date Analyzed: 10/10/2012

Lab File ID (Standard): S6B0691.D Time Analyzed: 15:59

Instrument ID: S6 GC Column: Rxi-5sil MS ID: 0.25 (mm)

		IS4 (PHN) AREA	#	RT	#	IS5 (CRY) AREA	#	RT	#	IS6 (PRY) AREA	#	RT	#
	12 HOUR STD	779465		7.09		957540		9.258		947705		10.433	
	UPPER LIMIT	1558930		7.59		1915080		9.758		1895410		10.933	
	LOWER LIMIT	389733		6.59		478770		8.758		473853		9.933	
	EPA SAMPLE NO.												
01	MB-68635	761583		7.084		910980		9.234		937126		10.398	
02	MW-7	834241		7.084		959331		9.229		980666		10.380	

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12
AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside contract required QC limits with an asterisk.

8C - FORM VIII SV-1

SEMIVOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

GC Column: Rxi-5sil MS ID: 0.25 (mm) Init. Calib. Date(s): 10/10/2012 10/10/2012

EPA Sample No.(SSTD020##) SSTD0256H Date Analyzed: 10/11/2012

Lab File ID (Standard): S6B0741.D Time Analyzed: 12:12

Instrument ID: S6

		IS1 (DCB) AREA	#	RT	#	IS2 (NPT) AREA	#	RT	#	IS3 (ANT) AREA	#	RT	#
	12 HOUR STD	156069		3.212		587135		4.387		422397		5.868	
	UPPER LIMIT	312138		3.712		1174270		4.887		844794		6.368	
	LOWER LIMIT	78035		2.712		293568		3.887		211199		5.368	
	EPA SAMPLE NO.												
01	LCS-68635	135073		3.206		547776		4.387		396822		5.868	
02	LCSD-68635	162522		3.212		625377		4.387		454665		5.868	

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10
AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside contract required QC limits with an asterisk.

8D - FORM VIII SV-2

SEMIVOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

EPA Sample No.(SSTD020##) SSTD0256H Date Analyzed: 10/11/2012

Lab File ID (Standard): S6B0741.D Time Analyzed: 12:12

Instrument ID: S6 GC Column: Rxi-5sil MS ID: 0.25 (mm)

		IS4 (PHN) AREA	#	RT	#	IS5 (CRY) AREA	#	RT	#	IS6 (PRY) AREA	#	RT	#
	12 HOUR STD	891236		7.072		1181247		9.246		1143235		10.439	
	UPPER LIMIT	1782472		7.572		2362494		9.746		2286470		10.939	
	LOWER LIMIT	445618		6.572		590624		8.746		571618		9.939	
	EPA SAMPLE NO.												
01	LCS-68635	859110		7.072		1091618		9.229		1058048		10.386	
02	LCSD-68635	969859		7.072		1239186		9.235		1224944		10.386	

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12
AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside contract required QC limits with an asterisk.

* Pesticide Organics *

REPORT NARRATIVE

Spectrum Analytical, Inc. Featuring Hanibal Technology, RI Division.

Client : ARCADIS U.S., Inc.

Project: S&S Dry Cleaners & Dyers

Laboratory Workorder / SDG #: L2071

SW846 8081B, Organochlorine Pesticides by GC-ECD

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code: SW846 8081B

IV. PREPARATION

Aqueous Samples were prepared following procedures in laboratory test code: SW3510

V. INSTRUMENTATION

The following instrumentation was used

Instrument Code: E5
Instrument Type: GC-ECD
Description: HP6890
Manufacturer: Hewlett-Packard
Model: 6890
GC Column used: 30 m X 0.53 mm ID [0.50 um thickness] CLPPest capillary column.
GC Column used: 30 m X 0.53 mm ID [0.42 um thickness] CLPPestII capillary column.

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

Surrogate standard percent recoveries were within the QC limits.

D. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits.

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

Matrix spikes were performed on samples: MW-8 (L2071-05BMS) and MW-8 (L2071-05BMSD).

Percent recoveries were within the QC limits with the following exceptions:

MW-8 (L2071-05BMS)Percent Recovery is outside QC Limits, recovery is below criteria for alpha-BHC on rear column, at 58% with criteria of (60-130), alpha-BHC on front column, at 60% with criteria of (60-130), alpha-Chlordane on rear column, at 54% with criteria of (65-125), alpha-Chlordane on front column, at 52% with

criteria of (65-125), Dieldrin on rear column, at 58% with criteria of (60-130), Dieldrin on front column, at 56% with criteria of (60-130), Endrin ketone on rear column, at 70% with criteria of (75-125), Endrin ketone on front column, at 72% with criteria of (75-125), gamma-Chlordane on rear column, at 54% with criteria of (60-125), gamma-Chlordane on front column, at 55% with criteria of (60-125), Heptachlor epoxide on rear column, at 57% with criteria of (60-130) and Heptachlor epoxide on front column, at 57% with criteria of (60-130).

MW-8 (L2071-05BMSD)Percent Recovery is outside QC Limits, recovery is below criteria for alpha-Chlordane on rear column, at 56% with criteria of (65-125), alpha-Chlordane on front column, at 55% with criteria of (65-125), gamma-Chlordane on rear column, at 57% with criteria of (60-125) and gamma-Chlordane on front column, at 57% with criteria of (60-125).

Replicate RPDs were within the advisory QC limits.

E. Dilutions:

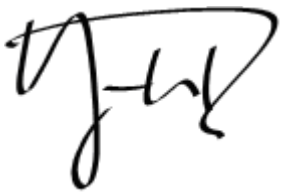
No sample in this SDG required analysis at dilution.

F. Samples:

The lower concentration between the primary and confirmatory GC column concentrations is reported due to the presence of interferences unless otherwise indicated. P flags are assigned to compounds when D% between the two columns are greater than 40%.

No other unusual occurrences were noted during sample analysis.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.



Signed:_____ _____

Date:_____10/23/2012_____

Data Flag/Qualifiers:

U Not Detected. This compound was analyzed-for but not detected. For most analyses the reporting limit (lowest standard concentration) is the value listed. For Department of Defense programs, this is the Limit of Detection (LOD).

J This flag indicates an estimated value due to either
- the compound was detected below the reporting limit, or
- estimated concentration for Tentatively Identified Compound

B This flag indicates the compound was also detected in the associated Method Blank. The B flag has an alternative meaning for Inorganics analyses reported using CLP ILM-type metals forms, indicating a "trace" concentration below the reporting limit and equal to or above the detection limit.

D For Organics analysis, this flag indicates the compound concentration was obtained from a secondary dilution analysis

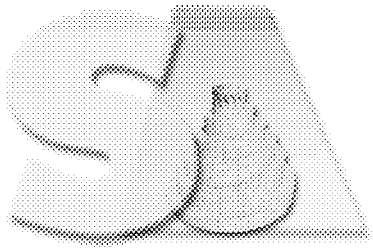
E This flag indicates the compound concentration exceeded the Calibration Range. The E flag has an alternative meaning for Inorganics analyses reported using CLP metals forms, indicating an estimated concentration due to the presence of interferences, as determined by the serial dilution analysis.

P This flag is used for pesticides/PCB/herbicide compound when there is a greater than 40% difference for detected concentration between the two GC columns used for primary and confirmation analyses. This difference typically indicates an interference, causing one value to be unusually high. The **lower** of the two values is generally reported on the Form 1, and both values reported on the Form 10.

A Used to flag semivolatile organic Tentatively Identified Compound library search results for compounds identified as aldol condensation byproducts.

N Used to flag results for volatile and semivolatile Organics analysis Tentatively Identified Compounds where an analyte has passed the identification criteria, and is considered to be positively identified. For Inorganics analysis the N flag indicates the matrix spike recovery falls outside of the control limit.

* For Inorganics analysis the * flag indicates Relative Percent Difference for duplicate analyses is outside of the control limit.



Sample ID Suffixes

DL Diluted analysis. The sample was diluted and reanalyzed. The DL may be followed by a digit if more than one diluted reanalysis is provided. The DL suffix is not attached to an analysis initially performed at dilution, only to reanalyses performed at dilution

RE Reanalysis. Appended to the client sample ID to indicate a reextraction and reanalysis or a reanalysis of the original sample extract.

RA Reanalysis. Appended to the laboratory sample ID indicates a reanalysis of the original sample extract.

RX Reextraction. Appended to the laboratory sample ID indicates a reextraction of the sample.

MS Matrix Spike.

MSD Matrix Spike Duplicate

DUP Duplicate analysis

SD Serial Dilution

PS Post-digestion or Post-distillation spike. For metals or inorganic analyses

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-8

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L2071-05B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E5J1697F.D/E5J1697R.D

% Moisture: Decanted: (Y/N) Date Received: 10/02/2012

Extraction: (Type) SEPF Date Extracted: 10/04/2012

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 10/09/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0

GPC Cleanup:(Y/N) N pH: Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4´-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4´-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4´-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DUP

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L2071-06B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E5J1700F.D/E5J1700R.D

% Moisture: Decanted: (Y/N) Date Received: 10/02/2012

Extraction: (Type) SEPF Date Extracted: 10/04/2012

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 10/10/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0

GPC Cleanup:(Y/N) N pH: Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4´-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4´-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4´-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-7

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L2071-10B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E5J1832F.D/E5J1832R.D

% Moisture: Decanted: (Y/N) Date Received: 10/05/2012

Extraction: (Type) SEPF Date Extracted: 10/11/2012

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 10/12/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0

GPC Cleanup:(Y/N) N pH: Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4´-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4´-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4´-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MB-68539

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: MB-68539

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E5J1695F.D/E5J1695R.D

% Moisture: Decanted: (Y/N) Date Received:

Extraction: (Type) SEPF Date Extracted: 10/04/2012

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 10/09/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0

GPC Cleanup:(Y/N) N pH: Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4´-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4´-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4´-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MB-68671

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: MB-68671

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E5J1829F.D/E5J1829R.D

% Moisture: Decanted: (Y/N) Date Received:

Extraction: (Type) SEPF Date Extracted: 10/11/2012

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 10/12/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0

GPC Cleanup:(Y/N) N pH: Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4´-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4´-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4´-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCS-68539(1)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: LCS-68539

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E5J1696F.D

% Moisture: Decanted: (Y/N) Date Received:

Extraction: (Type) SEPF Date Extracted: 10/04/2012

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 10/09/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0

GPC Cleanup:(Y/N) N pH: Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.19	
319-85-7	beta-BHC	0.20	
319-86-8	delta-BHC	0.19	
58-89-9	gamma-BHC (Lindane)	0.19	
76-44-8	Heptachlor	0.19	
309-00-2	Aldrin	0.19	
1024-57-3	Heptachlor epoxide	0.19	
959-98-8	Endosulfan I	0.18	
60-57-1	Dieldrin	0.38	
72-55-9	4,4´-DDE	0.47	
72-20-8	Endrin	0.41	
33213-65-9	Endosulfan II	0.37	
72-54-8	4,4´-DDD	0.40	
1031-07-8	Endosulfan sulfate	0.38	
50-29-3	4,4´-DDT	0.43	
72-43-5	Methoxychlor	2.3	
53494-70-5	Endrin ketone	0.41	
7421-93-4	Endrin aldehyde	0.40	
5103-71-9	alpha-Chlordane	0.19	
5103-74-2	gamma-Chlordane	0.19	
8001-35-2	Toxaphene	5.0	U

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCS-68539(2)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: LCS-68539

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E5J1696R.D

% Moisture: Decanted: (Y/N) Date Received:

Extraction: (Type) SEPF Date Extracted: 10/04/2012

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 10/09/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0

GPC Cleanup:(Y/N) N pH: Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.18	
319-85-7	beta-BHC	0.18	
319-86-8	delta-BHC	0.20	
58-89-9	gamma-BHC (Lindane)	0.18	
76-44-8	Heptachlor	0.19	
309-00-2	Aldrin	0.18	
1024-57-3	Heptachlor epoxide	0.19	
959-98-8	Endosulfan I	0.19	
60-57-1	Dieldrin	0.39	
72-55-9	4,4´-DDE	0.41	
72-20-8	Endrin	0.42	
33213-65-9	Endosulfan II	0.38	
72-54-8	4,4´-DDD	0.42	
1031-07-8	Endosulfan sulfate	0.40	
50-29-3	4,4´-DDT	0.46	
72-43-5	Methoxychlor	2.2	
53494-70-5	Endrin ketone	0.40	
7421-93-4	Endrin aldehyde	0.42	
5103-71-9	alpha-Chlordane	0.19	
5103-74-2	gamma-Chlordane	0.19	
8001-35-2	Toxaphene	5.0	U

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCS-68671(1)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: LCS-68671

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E5J1830F.D

% Moisture: Decanted: (Y/N) Date Received:

Extraction: (Type) SEPF Date Extracted: 10/11/2012

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 10/12/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0

GPC Cleanup:(Y/N) N pH: Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.17	
319-85-7	beta-BHC	0.19	
319-86-8	delta-BHC	0.17	
58-89-9	gamma-BHC (Lindane)	0.17	
76-44-8	Heptachlor	0.18	
309-00-2	Aldrin	0.17	
1024-57-3	Heptachlor epoxide	0.17	
959-98-8	Endosulfan I	0.18	
60-57-1	Dieldrin	0.35	
72-55-9	4,4´-DDE	0.29	
72-20-8	Endrin	0.35	
33213-65-9	Endosulfan II	0.35	
72-54-8	4,4´-DDD	0.34	
1031-07-8	Endosulfan sulfate	0.33	
50-29-3	4,4´-DDT	0.34	
72-43-5	Methoxychlor	1.7	
53494-70-5	Endrin ketone	0.35	
7421-93-4	Endrin aldehyde	0.34	
5103-71-9	alpha-Chlordane	0.17	
5103-74-2	gamma-Chlordane	0.17	
8001-35-2	Toxaphene	5.0	U

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCS-68671(2)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: LCS-68671

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E5J1830R.D

% Moisture: Decanted: (Y/N) Date Received:

Extraction: (Type) SEPF Date Extracted: 10/11/2012

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 10/12/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0

GPC Cleanup:(Y/N) N pH: Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.15	
319-85-7	beta-BHC	0.16	
319-86-8	delta-BHC	0.14	
58-89-9	gamma-BHC (Lindane)	0.15	
76-44-8	Heptachlor	0.16	
309-00-2	Aldrin	0.15	
1024-57-3	Heptachlor epoxide	0.15	
959-98-8	Endosulfan I	0.16	
60-57-1	Dieldrin	0.32	
72-55-9	4,4´-DDE	0.31	
72-20-8	Endrin	0.33	
33213-65-9	Endosulfan II	0.33	
72-54-8	4,4´-DDD	0.32	
1031-07-8	Endosulfan sulfate	0.32	
50-29-3	4,4´-DDT	0.32	
72-43-5	Methoxychlor	1.6	
53494-70-5	Endrin ketone	0.31	
7421-93-4	Endrin aldehyde	0.32	
5103-71-9	alpha-Chlordane	0.15	
5103-74-2	gamma-Chlordane	0.15	
8001-35-2	Toxaphene	5.0	U

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
LCSD-68671(1)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: LCSD-68671

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E5J1831F.D

% Moisture: Decanted: (Y/N) Date Received:

Extraction: (Type) SEPF Date Extracted: 10/11/2012

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 10/12/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0

GPC Cleanup:(Y/N) N pH: Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.18	
319-85-7	beta-BHC	0.20	
319-86-8	delta-BHC	0.18	
58-89-9	gamma-BHC (Lindane)	0.18	
76-44-8	Heptachlor	0.19	
309-00-2	Aldrin	0.18	
1024-57-3	Heptachlor epoxide	0.18	
959-98-8	Endosulfan I	0.20	
60-57-1	Dieldrin	0.37	
72-55-9	4,4´-DDE	0.32	
72-20-8	Endrin	0.38	
33213-65-9	Endosulfan II	0.37	
72-54-8	4,4´-DDD	0.36	
1031-07-8	Endosulfan sulfate	0.35	
50-29-3	4,4´-DDT	0.36	
72-43-5	Methoxychlor	1.9	
53494-70-5	Endrin ketone	0.37	
7421-93-4	Endrin aldehyde	0.37	
5103-71-9	alpha-Chlordane	0.18	
5103-74-2	gamma-Chlordane	0.18	
8001-35-2	Toxaphene	5.0	U

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
LCSD-68671(2)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: LCSD-68671

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E5J1831R.D

% Moisture: Decanted: (Y/N) Date Received:

Extraction: (Type) SEPF Date Extracted: 10/11/2012

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 10/12/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0

GPC Cleanup:(Y/N) N pH: Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.16	
319-85-7	beta-BHC	0.15	
319-86-8	delta-BHC	0.15	
58-89-9	gamma-BHC (Lindane)	0.16	
76-44-8	Heptachlor	0.17	
309-00-2	Aldrin	0.16	
1024-57-3	Heptachlor epoxide	0.16	
959-98-8	Endosulfan I	0.17	
60-57-1	Dieldrin	0.35	
72-55-9	4,4´-DDE	0.34	
72-20-8	Endrin	0.36	
33213-65-9	Endosulfan II	0.35	
72-54-8	4,4´-DDD	0.34	
1031-07-8	Endosulfan sulfate	0.34	
50-29-3	4,4´-DDT	0.34	
72-43-5	Methoxychlor	1.7	
53494-70-5	Endrin ketone	0.33	
7421-93-4	Endrin aldehyde	0.35	
5103-71-9	alpha-Chlordane	0.16	
5103-74-2	gamma-Chlordane	0.16	
8001-35-2	Toxaphene	5.0	U

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-8MS(1)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L2071-05BMS

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E5J1698F.D

% Moisture: Decanted: (Y/N) Date Received: 10/02/2012

Extraction: (Type) SEPF Date Extracted: 10/04/2012

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 10/09/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0

GPC Cleanup:(Y/N) N pH: Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.12	
319-85-7	beta-BHC	0.14	
319-86-8	delta-BHC	0.13	
58-89-9	gamma-BHC (Lindane)	0.12	
76-44-8	Heptachlor	0.11	
309-00-2	Aldrin	0.098	
1024-57-3	Heptachlor epoxide	0.11	
959-98-8	Endosulfan I	0.11	
60-57-1	Dieldrin	0.22	
72-55-9	4,4´-DDE	0.28	
72-20-8	Endrin	0.25	
33213-65-9	Endosulfan II	0.23	
72-54-8	4,4´-DDD	0.24	
1031-07-8	Endosulfan sulfate	0.25	
50-29-3	4,4´-DDT	0.27	
72-43-5	Methoxychlor	1.5	
53494-70-5	Endrin ketone	0.29	
7421-93-4	Endrin aldehyde	0.27	
5103-71-9	alpha-Chlordane	0.10	
5103-74-2	gamma-Chlordane	0.11	
8001-35-2	Toxaphene	5.0	U

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-8MS(2)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L2071-05BMS

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E5J1698R.D

% Moisture: Decanted: (Y/N) Date Received: 10/02/2012

Extraction: (Type) SEPF Date Extracted: 10/04/2012

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 10/09/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0

GPC Cleanup:(Y/N) N pH: Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.12	
319-85-7	beta-BHC	0.17	
319-86-8	delta-BHC	0.12	
58-89-9	gamma-BHC (Lindane)	0.13	
76-44-8	Heptachlor	0.11	
309-00-2	Aldrin	0.10	
1024-57-3	Heptachlor epoxide	0.11	
959-98-8	Endosulfan I	0.12	
60-57-1	Dieldrin	0.23	
72-55-9	4,4´-DDE	0.23	
72-20-8	Endrin	0.26	
33213-65-9	Endosulfan II	0.23	
72-54-8	4,4´-DDD	0.25	
1031-07-8	Endosulfan sulfate	0.26	
50-29-3	4,4´-DDT	0.28	
72-43-5	Methoxychlor	1.6	
53494-70-5	Endrin ketone	0.28	
7421-93-4	Endrin aldehyde	0.29	
5103-71-9	alpha-Chlordane	0.11	
5103-74-2	gamma-Chlordane	0.11	
8001-35-2	Toxaphene	5.0	U

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-8MSD(1)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L2071-05BMSD

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E5J1699F.D

% Moisture: Decanted: (Y/N) Date Received: 10/02/2012

Extraction: (Type) SEPF Date Extracted: 10/04/2012

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 10/10/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0

GPC Cleanup:(Y/N) N pH: Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.15	
319-85-7	beta-BHC	0.17	
319-86-8	delta-BHC	0.16	
58-89-9	gamma-BHC (Lindane)	0.15	
76-44-8	Heptachlor	0.11	
309-00-2	Aldrin	0.099	
1024-57-3	Heptachlor epoxide	0.13	
959-98-8	Endosulfan I	0.12	
60-57-1	Dieldrin	0.25	
72-55-9	4,4´-DDE	0.27	
72-20-8	Endrin	0.28	
33213-65-9	Endosulfan II	0.26	
72-54-8	4,4´-DDD	0.24	
1031-07-8	Endosulfan sulfate	0.31	
50-29-3	4,4´-DDT	0.28	
72-43-5	Methoxychlor	1.6	
53494-70-5	Endrin ketone	0.35	
7421-93-4	Endrin aldehyde	0.33	
5103-71-9	alpha-Chlordane	0.11	
5103-74-2	gamma-Chlordane	0.11	
8001-35-2	Toxaphene	5.0	U

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-8MSD(2)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L2071-05BMSD

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E5J1699R.D

% Moisture: Decanted: (Y/N) Date Received: 10/02/2012

Extraction: (Type) SEPF Date Extracted: 10/04/2012

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 10/10/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0

GPC Cleanup:(Y/N) N pH: Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.14	
319-85-7	beta-BHC	0.18	
319-86-8	delta-BHC	0.15	
58-89-9	gamma-BHC (Lindane)	0.15	
76-44-8	Heptachlor	0.11	
309-00-2	Aldrin	0.10	
1024-57-3	Heptachlor epoxide	0.13	
959-98-8	Endosulfan I	0.13	
60-57-1	Dieldrin	0.26	
72-55-9	4,4´-DDE	0.23	
72-20-8	Endrin	0.29	
33213-65-9	Endosulfan II	0.28	
72-54-8	4,4´-DDD	0.27	
1031-07-8	Endosulfan sulfate	0.33	
50-29-3	4,4´-DDT	0.28	
72-43-5	Methoxychlor	1.7	
53494-70-5	Endrin ketone	0.34	
7421-93-4	Endrin aldehyde	0.35	
5103-71-9	alpha-Chlordane	0.11	
5103-74-2	gamma-Chlordane	0.11	
8001-35-2	Toxaphene	5.0	U

2N - FORM II PEST-1

WATER PESTICIDE SURROGATE RECOVERY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

GC Column(1): CLPPest ID: 0.53 (mm) GC Column(2): CLPPestII ID: 0.53 (mm)

	EPA SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	MB-68539	96	96	109	106			0
02	LCS-68539	95	95	107	104			0
03	MW-8	69	70	52	50			0
04	MW-8MS	57	58	51	49			0
05	MW-8MSD	68	69	64	62			0
06	DUP	72	72	67	64			0
07	MB-68671	97	85	105	100			0
08	LCS-68671	87	76	98	93			0
09	LCSD-68671	95	86	103	99			0
10	MW-7	64	56	73	71			0

	QC LIMITS
TCX = Tetrachloro-m-xylene	(25-140)
DCB = Decachlorobiphenyl	(30-135)

Column to be used to flag recovery values

* Values outside of QC limits

D Surrogate diluted out

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3G - FORM III PEST-1

WATER PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix Spike - EPA Sample No.: MW-8

Instrument ID: E5 GC Column : CLPPest ID: 0.53 (mm)

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS %REC	#	QC. LIMITS REC.
alpha-BHC	0.2000	0.0000	0.1193	60	*	60-130
beta-BHC	0.2000	0.0000	0.1388	69		65-125
delta-BHC	0.2000	0.0000	0.1273	64		45-135
gamma-BHC (Lindane)	0.2000	0.0000	0.1215	61		25-135
Heptachlor	0.2000	0.0000	0.1054	53		40-130
Aldrin	0.2000	0.0000	0.0976	49		25-140
Heptachlor epoxide	0.2000	0.0000	0.1135	57	*	60-130
Endosulfan I	0.2000	0.0000	0.1051	53		50-110
Dieldrin	0.4000	0.0000	0.2240	56	*	60-130
4,4´-DDE	0.4000	0.0000	0.2764	69		35-140
Endrin	0.4000	0.0000	0.2480	62		55-135
Endosulfan II	0.4000	0.0000	0.2254	56		30-130
4,4´-DDD	0.4000	0.0000	0.2368	59		25-150
Endosulfan sulfate	0.4000	0.0000	0.2546	64		55-135
4,4´-DDT	0.4000	0.0000	0.2695	67		45-140
Methoxychlor	2.0000	0.0000	1.4543	73		55-150
Endrin ketone	0.4000	0.0000	0.2875	72	*	75-125
Endrin aldehyde	0.4000	0.0000	0.2664	67		55-135
alpha-Chlordane	0.2000	0.0000	0.1038	52	*	65-125
gamma-Chlordane	0.2000	0.0000	0.1107	55	*	60-125

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD %REC	#	%RPD	#	QC LIMITS RPD	QC LIMITS REC.
alpha-BHC	0.2000	0.1495	75		22		0-30	60-130
beta-BHC	0.2000	0.1691	85		20		0-30	65-125
delta-BHC	0.2000	0.1586	79		22		0-30	45-135
gamma-BHC (Lindane)	0.2000	0.1523	76		23		0-30	25-135
Heptachlor	0.2000	0.1103	55		5		0-30	40-130
Aldrin	0.2000	0.0986	49		1		0-30	25-140
Heptachlor epoxide	0.2000	0.1283	64		12		0-30	60-130
Endosulfan I	0.2000	0.1172	59		11		0-30	50-110
Dieldrin	0.4000	0.2476	62		10		0-30	60-130
4,4´-DDE	0.4000	0.2722	68		2		0-30	35-140
Endrin	0.4000	0.2826	71		13		0-30	55-135
Endosulfan II	0.4000	0.2643	66		16		0-30	30-130
4,4´-DDD	0.4000	0.2391	60		1		0-30	25-150
Endosulfan sulfate	0.4000	0.3144	79		21		0-30	55-135
4,4´-DDT	0.4000	0.2783	70		3		0-30	45-140
Methoxychlor	2.0000	1.6470	82		12		0-30	55-150
Endrin ketone	0.4000	0.3550	89		21		0-30	75-125
Endrin aldehyde	0.4000	0.3289	82		21		0-30	55-135
alpha-Chlordane	0.2000	0.1099	55	*	6		0-30	65-125
gamma-Chlordane	0.2000	0.1139	57	*	3		0-30	60-125

3G - FORM III PEST-1

WATER PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix Spike - EPA Sample No.: MW-8

Instrument ID: E5 GC Column : CLPPest ID: 0.53 (mm)

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 20 outside limits

Spike Recovery: 8 out of 40 outside limits

COMMENTS:

3G - FORM III PEST-1

WATER PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix Spike - EPA Sample No.: MW-8

Instrument ID: E5 GC Column : CLPPestII ID: 0.53 (mm)

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS %REC	#	QC. LIMITS REC.
alpha-BHC	0.2000	0.0000	0.1151	58	*	60-130
beta-BHC	0.2000	0.0000	0.1681	84		65-125
delta-BHC	0.2000	0.0000	0.1216	61		45-135
gamma-BHC (Lindane)	0.2000	0.0000	0.1279	64		25-135
Heptachlor	0.2000	0.0000	0.1058	53		40-130
Aldrin	0.2000	0.0000	0.0999	50		25-140
Heptachlor epoxide	0.2000	0.0000	0.1135	57	*	60-130
Endosulfan I	0.2000	0.0000	0.1154	58		50-110
Dieldrin	0.4000	0.0000	0.2312	58	*	60-130
4,4´-DDE	0.4000	0.0000	0.2285	57		35-140
Endrin	0.4000	0.0000	0.2563	64		55-135
Endosulfan II	0.4000	0.0000	0.2349	59		30-130
4,4´-DDD	0.4000	0.0000	0.2507	63		25-150
Endosulfan sulfate	0.4000	0.0000	0.2646	66		55-135
4,4´-DDT	0.4000	0.0000	0.2789	70		45-140
Methoxychlor	2.0000	0.0000	1.5711	79		55-150
Endrin ketone	0.4000	0.0000	0.2798	70	*	75-125
Endrin aldehyde	0.4000	0.0000	0.2884	72		55-135
alpha-Chlordane	0.2000	0.0000	0.1088	54	*	65-125
gamma-Chlordane	0.2000	0.0000	0.1072	54	*	60-125

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD %REC	#	%RPD	#	QC LIMITS RPD	QC LIMITS REC.
alpha-BHC	0.2000	0.1440	72		22		0-30	60-130
beta-BHC	0.2000	0.1773	89		5		0-30	65-125
delta-BHC	0.2000	0.1528	76		23		0-30	45-135
gamma-BHC (Lindane)	0.2000	0.1501	75		16		0-30	25-135
Heptachlor	0.2000	0.1116	56		5		0-30	40-130
Aldrin	0.2000	0.1044	52		4		0-30	25-140
Heptachlor epoxide	0.2000	0.1305	65		14		0-30	60-130
Endosulfan I	0.2000	0.1296	65		12		0-30	50-110
Dieldrin	0.4000	0.2588	65		11		0-30	60-130
4,4´-DDE	0.4000	0.2274	57		0		0-30	35-140
Endrin	0.4000	0.2910	73		13		0-30	55-135
Endosulfan II	0.4000	0.2837	71		19		0-30	30-130
4,4´-DDD	0.4000	0.2710	68		8		0-30	25-150
Endosulfan sulfate	0.4000	0.3269	82		21		0-30	55-135
4,4´-DDT	0.4000	0.2776	69		0		0-30	45-140
Methoxychlor	2.0000	1.6803	84		7		0-30	55-150
Endrin ketone	0.4000	0.3392	85		19		0-30	75-125
Endrin aldehyde	0.4000	0.3540	88		20		0-30	55-135
alpha-Chlordane	0.2000	0.1125	56	*	3		0-30	65-125
gamma-Chlordane	0.2000	0.1135	57	*	6		0-30	60-125

3G - FORM III PEST-1

WATER PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix Spike - EPA Sample No.: MW-8

Instrument ID: E5 GC Column : CLPPestII ID: 0.53 (mm)

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 20 outside limits

Spike Recovery: 8 out of 40 outside limits

COMMENTS:

3L - FORM III PEST-3
WATER PESTICIDE LABORATORY CONTROL
SAMPLE RECOVERY

EPA SAMPLE NO.
LCS-68539

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Lab Sample ID: LCS-68539 LCS Lot No.: A079294

Date Extracted: 10/04/2012 Date Analyzed (1): 10/09/2012

Instrument ID (1): E5 GC Column(1): CLPPest ID: 0.53 (mm)

COMPOUND	AMOUNT ADDED (UG/L)	AMOUNT RECOVERED (UG/L)	%REC #	QC LIMITS
alpha-BHC	0.2000	0.1858	93	60-130
beta-BHC	0.2000	0.1990	99	65-125
delta-BHC	0.2000	0.1947	97	45-135
gamma-BHC (Lindane)	0.2000	0.1884	94	25-135
Heptachlor	0.2000	0.1891	95	40-130
Aldrin	0.2000	0.1850	93	25-140
Heptachlor epoxide	0.2000	0.1878	94	60-130
Endosulfan I	0.2000	0.1817	91	50-110
Dieldrin	0.4000	0.3844	96	60-130
4,4´-DDE	0.4000	0.4675	117	35-140
Endrin	0.4000	0.4127	103	55-135
Endosulfan II	0.4000	0.3673	92	30-130
4,4´-DDD	0.4000	0.4036	101	25-150
Endosulfan sulfate	0.4000	0.3830	96	55-135
4,4´-DDT	0.4000	0.4331	108	45-140
Methoxychlor	2.0000	2.2930	115	55-150
Endrin ketone	0.4000	0.4072	102	75-125
Endrin aldehyde	0.4000	0.3988	100	55-135
alpha-Chlordane	0.2000	0.1864	93	65-125
gamma-Chlordane	0.2000	0.1900	95	60-125

Instrument ID (2): E5 GC Column(2): CLPPestII ID: 0.53 (mm)

Date Analyzed (2): 10/09/2012

COMPOUND	AMOUNT ADDED (UG/L)	AMOUNT RECOVERED (UG/L)	%REC #	QC LIMITS
alpha-BHC	0.2000	0.1818	91	60-130
beta-BHC	0.2000	0.1818	91	65-125
delta-BHC	0.2000	0.1966	98	45-135
gamma-BHC (Lindane)	0.2000	0.1843	92	25-135

COMMENTS:

3L - FORM III PEST-3

WATER PESTICIDE LABORATORY CONTROL SAMPLE RECOVERY

EPA SAMPLE NO.

LCS-68539

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Lab Sample ID: LCS-68539 LCS Lot No.: A079294

Date Extracted: 10/04/2012 Date Analyzed (1): 10/09/2012

Heptachlor	0.2000	0.1910	96	40-130
Aldrin	0.2000	0.1757	88	25-140
Heptachlor epoxide	0.2000	0.1929	96	60-130
Endosulfan I	0.2000	0.1942	97	50-110
Dieldrin	0.4000	0.3904	98	60-130
4,4´-DDE	0.4000	0.4061	102	35-140
Endrin	0.4000	0.4227	106	55-135
Endosulfan II	0.4000	0.3752	94	30-130
4,4´-DDD	0.4000	0.4218	105	25-150
Endosulfan sulfate	0.4000	0.4007	100	55-135
4,4´-DDT	0.4000	0.4554	114	45-140
Methoxychlor	2.0000	2.1903	110	55-150
Endrin ketone	0.4000	0.3990	100	75-125
Endrin aldehyde	0.4000	0.4184	105	55-135
alpha-Chlordane	0.2000	0.1908	95	65-125
gamma-Chlordane	0.2000	0.1927	96	60-125

Column to be used to flag recovery values with an asterisk

* Values outside of QC limits

LCS Recovery: 0 out of 40 outside limits.

COMMENTS:

3L - FORM III PEST-3

WATER PESTICIDE LABORATORY CONTROL SAMPLE RECOVERY

EPA SAMPLE NO.

LCS-68671

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Lab Sample ID: LCS-68671 LCS Lot No.: A079294

Date Extracted: 10/11/2012 Date Analyzed (1): 10/12/2012

Instrument ID (1): E5 GC Column(1): CLPPest ID: 0.53 (mm)

COMPOUND	AMOUNT ADDED (UG/L)	AMOUNT RECOVERED (UG/L)	%REC #	QC LIMITS
alpha-BHC	0.2000	0.1695	85	60-130
beta-BHC	0.2000	0.1859	93	65-125
delta-BHC	0.2000	0.1724	86	45-135
gamma-BHC (Lindane)	0.2000	0.1728	86	25-135
Heptachlor	0.2000	0.1800	90	40-130
Aldrin	0.2000	0.1711	86	25-140
Heptachlor epoxide	0.2000	0.1721	86	60-130
Endosulfan I	0.2000	0.1824	91	50-110
Dieldrin	0.4000	0.3499	87	60-130
4,4´-DDE	0.4000	0.2949	74	35-140
Endrin	0.4000	0.3513	88	55-135
Endosulfan II	0.4000	0.3493	87	30-130
4,4´-DDD	0.4000	0.3368	84	25-150
Endosulfan sulfate	0.4000	0.3262	82	55-135
4,4´-DDT	0.4000	0.3353	84	45-140
Methoxychlor	2.0000	1.7236	86	55-150
Endrin ketone	0.4000	0.3452	86	75-125
Endrin aldehyde	0.4000	0.3449	86	55-135
alpha-Chlordane	0.2000	0.1663	83	65-125
gamma-Chlordane	0.2000	0.1730	87	60-125

Instrument ID (2): E5 GC Column(2): CLPPestII ID: 0.53 (mm)

Date Analyzed (2): 10/12/2012

COMPOUND	AMOUNT ADDED (UG/L)	AMOUNT RECOVERED (UG/L)	%REC #	QC LIMITS
alpha-BHC	0.2000	0.1463	73	60-130
beta-BHC	0.2000	0.1591	80	65-125
delta-BHC	0.2000	0.1444	72	45-135
gamma-BHC (Lindane)	0.2000	0.1523	76	25-135

COMMENTS:

3L - FORM III PEST-3

WATER PESTICIDE LABORATORY CONTROL SAMPLE RECOVERY

EPA SAMPLE NO.

LCS-68671

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Lab Sample ID: LCS-68671 LCS Lot No.: A079294

Date Extracted: 10/11/2012 Date Analyzed (1): 10/12/2012

Heptachlor	0.2000	0.1582	79	40-130
Aldrin	0.2000	0.1471	74	25-140
Heptachlor epoxide	0.2000	0.1527	76	60-130
Endosulfan I	0.2000	0.1586	79	50-110
Dieldrin	0.4000	0.3220	80	60-130
4,4´-DDE	0.4000	0.3148	79	35-140
Endrin	0.4000	0.3269	82	55-135
Endosulfan II	0.4000	0.3306	83	30-130
4,4´-DDD	0.4000	0.3215	80	25-150
Endosulfan sulfate	0.4000	0.3178	79	55-135
4,4´-DDT	0.4000	0.3190	80	45-140
Methoxychlor	2.0000	1.5554	78	55-150
Endrin ketone	0.4000	0.3069	77	75-125
Endrin aldehyde	0.4000	0.3202	80	55-135
alpha-Chlordane	0.2000	0.1509	75	65-125
gamma-Chlordane	0.2000	0.1530	77	60-125

Column to be used to flag recovery values with an asterisk

* Values outside of QC limits

LCS Recovery: 0 out of 40 outside limits.

COMMENTS:

3L - FORM III PEST-3

WATER PESTICIDE LABORATORY CONTROL

SAMPLE DUPLICATE RECOVERY

EPA SAMPLE NO.

LCSD-68671

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Lab Sample ID: LCSD-68671 LCS Lot No.: A079294

Date Extracted: 10/11/2012 Date Analyzed (1): 10/12/2012

Instrument ID (1): E5 GC Column(1): CLPPest ID: 0.53 (mm)

COMPOUND	AMOUNT ADDED (UG/L)	AMOUNT RECOVERED (UG/L)	%REC #	QC LIMITS	%RPD #	RPD LIMIT
alpha-BHC	0.2000	0.1839	92	60-130	8.0	30
beta-BHC	0.2000	0.1984	99	65-125	6.0	30
delta-BHC	0.2000	0.1828	91	45-135	6.0	30
gamma-BHC (Lindane)	0.2000	0.1848	92	25-135	7.0	30
Heptachlor	0.2000	0.1930	97	40-130	7.0	30
Aldrin	0.2000	0.1847	92	25-140	7.0	30
Heptachlor epoxide	0.2000	0.1839	92	60-130	7.0	30
Endosulfan I	0.2000	0.1980	99	50-110	8.0	30
Dieldrin	0.4000	0.3731	93	60-130	7.0	30
4,4´-DDE	0.4000	0.3189	80	35-140	8.0	30
Endrin	0.4000	0.3837	96	55-135	9.0	30
Endosulfan II	0.4000	0.3743	94	30-130	8.0	30
4,4´-DDD	0.4000	0.3605	90	25-150	7.0	30
Endosulfan sulfate	0.4000	0.3517	88	55-135	7.0	30
4,4´-DDT	0.4000	0.3635	91	45-140	8.0	30
Methoxychlor	2.0000	1.8754	94	55-150	9.0	30
Endrin ketone	0.4000	0.3663	92	75-125	7.0	30
Endrin aldehyde	0.4000	0.3699	92	55-135	7.0	30
alpha-Chlordane	0.2000	0.1780	89	65-125	7.0	30
gamma-Chlordane	0.2000	0.1820	91	60-125	4.0	30

Instrument ID (2): E5 GC Column(2): CLPPestII ID: 0.53 (mm)

Date Analyzed (2): 10/12/2012

COMPOUND	AMOUNT ADDED (UG/L)	AMOUNT RECOVERED (UG/L)	%REC #	QC LIMITS	%RPD #	RPD LIMIT
alpha-BHC	0.2000	0.1587	79	60-130	8.0	30
beta-BHC	0.2000	0.1531	77	65-125	4.0	30
delta-BHC	0.2000	0.1526	76	45-135	5.0	30
gamma-BHC (Lindane)	0.2000	0.1597	80	25-135	5.0	30

COMMENTS:

3L - FORM III PEST-3

WATER PESTICIDE LABORATORY CONTROL

SAMPLE DUPLICATE RECOVERY

EPA SAMPLE NO.

LCSD-68671

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Lab Sample ID: LCSD-68671 LCS Lot No.: A079294

Date Extracted: 10/11/2012 Date Analyzed (1): 10/12/2012

Heptachlor	0.2000	0.1699	85	40-130	7.0	30
Aldrin	0.2000	0.1597	80	25-140	8.0	30
Heptachlor epoxide	0.2000	0.1624	81	60-130	6.0	30
Endosulfan I	0.2000	0.1700	85	50-110	7.0	30
Dieldrin	0.4000	0.3458	86	60-130	7.0	30
4,4´-DDE	0.4000	0.3428	86	35-140	8.0	30
Endrin	0.4000	0.3594	90	55-135	9.0	30
Endosulfan II	0.4000	0.3494	87	30-130	5.0	30
4,4´-DDD	0.4000	0.3382	85	25-150	6.0	30
Endosulfan sulfate	0.4000	0.3439	86	55-135	8.0	30
4,4´-DDT	0.4000	0.3424	86	45-140	7.0	30
Methoxychlor	2.0000	1.7087	85	55-150	9.0	30
Endrin ketone	0.4000	0.3278	82	75-125	6.0	30
Endrin aldehyde	0.4000	0.3457	86	55-135	7.0	30
alpha-Chlordane	0.2000	0.1616	81	65-125	8.0	30
gamma-Chlordane	0.2000	0.1627	81	60-125	5.0	30

Column to be used to flag recovery values with an asterisk

* Values outside of QC limits

LCS Recovery: 0 out of 40 outside limits.

RPD: 0 out of 40 outside limits.

COMMENTS:

4E - FORM IV PEST

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

MB-68539

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Lab File ID: E5J1695F.D / E5J1695R.D Lab Sample ID: MB-68539

Matrix: (SOIL/SED/WATER) WATER Extraction: (Type) SEPF Date Extracted: 10/04/2012

Sulfur Cleanup: (Y/N) Y GPC Cleanup:(Y/N) N

Date Analyzed (1): 10/09/2012 Date Analyzed (2): 10/09/2012

Time Analyzed (1): 23:03 Time Analyzed (2): 23:03

Instrument ID (1): E5 Instrument ID (2): E5

GC Column(1): CLPPest ID: 0.53 (mm) GC Column(2): CLPPestII ID: 0.53 (mm)

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED (1)	DATE ANALYZED (2)
01	LCS-68539	LCS-68539	10/09/2012	10/09/2012
02	MW-8	L2071-05B	10/09/2012	10/09/2012
03	MW-8MS	L2071-05BMS	10/09/2012	10/09/2012
04	MW-8MSD	L2071-05BMSD	10/10/2012	10/10/2012
05	DUP	L2071-06B	10/10/2012	10/10/2012

COMMENTS:

4E - FORM IV PEST

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

MB-68671

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Lab File ID: E5J1829F.D / E5J1829R.D Lab Sample ID: MB-68671

Matrix: (SOIL/SED/WATER) WATER Extraction: (Type) SEPF Date Extracted: 10/11/2012

Sulfur Cleanup: (Y/N) Y GPC Cleanup:(Y/N) N

Date Analyzed (1): 10/12/2012 Date Analyzed (2): 10/12/2012

Time Analyzed (1): 17:51 Time Analyzed (2): 17:51

Instrument ID (1): E5 Instrument ID (2): E5

GC Column(1): CLPPest ID: 0.53 (mm) GC Column(2): CLPPestII ID: 0.53 (mm)

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED (1)	DATE ANALYZED (2)
01	LCS-68671	LCS-68671	10/12/2012	10/12/2012
02	LCSD-68671	LCSD-68671	10/12/2012	10/12/2012
03	MW-7	L2071-10B	10/12/2012	10/12/2012

COMMENTS:



SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

* PCB Organics *

REPORT NARRATIVE

Spectrum Analytical, Inc. Featuring Hanibal Technology, RI Division.

Client : ARCADIS U.S., Inc.

Project: S&S Dry Cleaners & Dyers

Laboratory Workorder / SDG #: L2071

SW846 8082A, PCB by GC-ECD

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code: SW846 8082A

IV. PREPARATION

Aqueous Samples were prepared following procedures in laboratory test code: SW3510

V. INSTRUMENTATION

The following instrumentation was used

Instrument Code: E2
Instrument Type: GC-ECD
Description: HP5890 II +
Manufacturer: Hewlett-Packard
Model: 5890
GC Column used: 30 m X 0.53 mm ID [0.50 um thickness] CLPPest capillary column.
GC Column used: 30 m X 0.53 mm ID [0.42 um thickness] CLPPestII capillary column.

Instrument Code: E3
Instrument Type: GC-ECD
Description: HP5890 II
Manufacturer: Hewlett-Packard
Model: 5890
GC Column used: 30 m X 0.53 mm ID [0.50 um thickness] CLPPest capillary column.

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

Surrogate standard percent recoveries were within the QC limits.

D. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits.

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

Matrix spikes were performed on samples: MW-8 (L2071-05BMS) and MW-8 (L2071-05BMSD).

Percent recoveries were within the QC limits.

Replicate RPDs were within the advisory QC limits.

E. Dilutions:

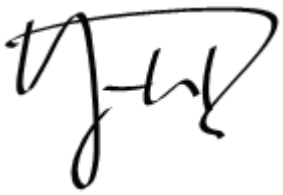
No sample in this SDG required analysis at dilution.

F. Samples:

The lower concentration between the primary and confirmatory GC column concentrations is reported due to the presence of interferences unless otherwise indicated. P flags are assigned to compounds when D% between the two columns are greater than 40%.

No other unusual occurrences were noted during sample analysis.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Signed:_____  _____

Date:_____10/23/2012_____

Data Flag/Qualifiers:

U Not Detected. This compound was analyzed-for but not detected. For most analyses the reporting limit (lowest standard concentration) is the value listed. For Department of Defense programs, this is the Limit of Detection (LOD).

J This flag indicates an estimated value due to either
- the compound was detected below the reporting limit, or
- estimated concentration for Tentatively Identified Compound

B This flag indicates the compound was also detected in the associated Method Blank. The B flag has an alternative meaning for Inorganics analyses reported using CLP ILM-type metals forms, indicating a "trace" concentration below the reporting limit and equal to or above the detection limit.

D For Organics analysis, this flag indicates the compound concentration was obtained from a secondary dilution analysis

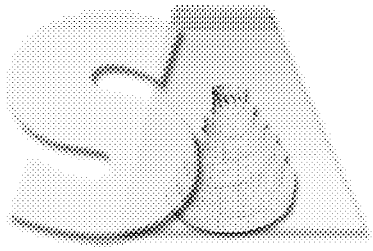
E This flag indicates the compound concentration exceeded the Calibration Range. The E flag has an alternative meaning for Inorganics analyses reported using CLP metals forms, indicating an estimated concentration due to the presence of interferences, as determined by the serial dilution analysis.

P This flag is used for pesticides/PCB/herbicide compound when there is a greater than 40% difference for detected concentration between the two GC columns used for primary and confirmation analyses. This difference typically indicates an interference, causing one value to be unusually high. The **lower** of the two values is generally reported on the Form 1, and both values reported on the Form 10.

A Used to flag semivolatile organic Tentatively Identified Compound library search results for compounds identified as aldol condensation byproducts.

N Used to flag results for volatile and semivolatile Organics analysis Tentatively Identified Compounds where an analyte has passed the identification criteria, and is considered to be positively identified. For Inorganics analysis the N flag indicates the matrix spike recovery falls outside of the control limit.

* For Inorganics analysis the * flag indicates Relative Percent Difference for duplicate analyses is outside of the control limit.



Sample ID Suffixes

DL Diluted analysis. The sample was diluted and reanalyzed. The DL may be followed by a digit if more than one diluted reanalysis is provided. The DL suffix is not attached to an analysis initially performed at dilution, only to reanalyses performed at dilution

RE Reanalysis. Appended to the client sample ID to indicate a reextraction and reanalysis or a reanalysis of the original sample extract.

RA Reanalysis. Appended to the laboratory sample ID indicates a reanalysis of the original sample extract.

RX Reextraction. Appended to the laboratory sample ID indicates a reextraction of the sample.

MS Matrix Spike.

MSD Matrix Spike Duplicate

DUP Duplicate analysis

SD Serial Dilution

PS Post-digestion or Post-distillation spike. For metals or inorganic analyses

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-8

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L2071-05B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E3J6146F.D/E3J6146R.D

% Moisture: Decanted: (Y/N) Date Received: 10/02/2012

Extraction: (Type) SEPF Date Extracted: 10/04/2012

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 10/10/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0

GPC Cleanup:(Y/N) N pH: Sulfur Cleanup: (Y/N) Y

Acid Cleanup:(Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U
37324-23-5	Aroclor-1262	1.0	U
11100-14-4	Aroclor-1268	1.0	U

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DUP

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L2071-06B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E3J6149F.D/E3J6149R.D

% Moisture: Decanted: (Y/N) Date Received: 10/02/2012

Extraction: (Type) SEPF Date Extracted: 10/04/2012

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 10/10/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0

GPC Cleanup:(Y/N) N pH: Sulfur Cleanup: (Y/N) Y

Acid Cleanup:(Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U
37324-23-5	Aroclor-1262	1.0	U
11100-14-4	Aroclor-1268	1.0	U

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-7

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L2071-10B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E2L4721F.D/E2L4721R.D

% Moisture: Decanted: (Y/N) Date Received: 10/05/2012

Extraction: (Type) SEPF Date Extracted: 10/11/2012

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 10/12/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0

GPC Cleanup:(Y/N) N pH: Sulfur Cleanup: (Y/N) Y

Acid Cleanup:(Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U
37324-23-5	Aroclor-1262	1.0	U
11100-14-4	Aroclor-1268	1.0	U

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MB-68540

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: MB-68540

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E3J6144F.D/E3J6144R.D

% Moisture: Decanted: (Y/N) Date Received:

Extraction: (Type) SEPF Date Extracted: 10/04/2012

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 10/10/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0

GPC Cleanup:(Y/N) N pH: Sulfur Cleanup: (Y/N) Y

Acid Cleanup:(Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U
37324-23-5	Aroclor-1262	1.0	U
11100-14-4	Aroclor-1268	1.0	U

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MB-68672

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: MB-68672

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E2L4718F.D/E2L4718R.D

% Moisture: Decanted: (Y/N) Date Received:

Extraction: (Type) SEPF Date Extracted: 10/11/2012

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 10/12/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0

GPC Cleanup:(Y/N) N pH: Sulfur Cleanup: (Y/N) Y

Acid Cleanup:(Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCS-68540(1)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: LCS-68540

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E3J6145F.D

% Moisture: Decanted: (Y/N) Date Received:

Extraction: (Type) SEPF Date Extracted: 10/04/2012

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 10/10/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0

GPC Cleanup:(Y/N) N pH: Sulfur Cleanup: (Y/N) Y

Acid Cleanup:(Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	4.0	
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	4.1	
37324-23-5	Aroclor-1262	1.0	U
11100-14-4	Aroclor-1268	1.0	U

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCS-68540(2)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: LCS-68540

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E3J6145R.D

% Moisture: Decanted: (Y/N) Date Received:

Extraction: (Type) SEPF Date Extracted: 10/04/2012

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 10/10/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0

GPC Cleanup:(Y/N) N pH: Sulfur Cleanup: (Y/N) Y

Acid Cleanup:(Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	3.6	
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	3.2	
37324-23-5	Aroclor-1262	1.0	U
11100-14-4	Aroclor-1268	1.0	U

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCS-68672(1)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: LCS-68672

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E2L4719F.D

% Moisture: Decanted: (Y/N) Date Received:

Extraction: (Type) SEPF Date Extracted: 10/11/2012

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 10/12/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0

GPC Cleanup:(Y/N) N pH: Sulfur Cleanup: (Y/N) Y

Acid Cleanup:(Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	3.9	
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	3.2	

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCS-68672(2)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: LCS-68672

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E2L4719R.D

% Moisture: Decanted: (Y/N) Date Received:

Extraction: (Type) SEPF Date Extracted: 10/11/2012

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 10/12/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0

GPC Cleanup:(Y/N) N pH: Sulfur Cleanup: (Y/N) Y

Acid Cleanup:(Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	4.0	
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	3.7	

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
LCSD-68672(1)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: LCSD-68672

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E2L4720F.D

% Moisture: Decanted: (Y/N) Date Received:

Extraction: (Type) SEPF Date Extracted: 10/11/2012

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 10/12/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0

GPC Cleanup:(Y/N) N pH: Sulfur Cleanup: (Y/N) Y

Acid Cleanup:(Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	3.8	
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	3.2	

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
LCSD-68672(2)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: LCSD-68672

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E2L4720R.D

% Moisture: Decanted: (Y/N) Date Received:

Extraction: (Type) SEPF Date Extracted: 10/11/2012

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 10/12/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0

GPC Cleanup:(Y/N) N pH: Sulfur Cleanup: (Y/N) Y

Acid Cleanup:(Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	4.4	
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	3.8	

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-8MS(1)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L2071-05BMS

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E3J6147F.D

% Moisture: Decanted: (Y/N) Date Received: 10/02/2012

Extraction: (Type) SEPF Date Extracted: 10/04/2012

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 10/10/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0

GPC Cleanup:(Y/N) N pH: Sulfur Cleanup: (Y/N) Y

Acid Cleanup:(Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	3.7	
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	3.8	
37324-23-5	Aroclor-1262	1.0	U
11100-14-4	Aroclor-1268	1.0	U

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-8MS(2)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L2071-05BMS

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E3J6147R.D

% Moisture: Decanted: (Y/N) Date Received: 10/02/2012

Extraction: (Type) SEPF Date Extracted: 10/04/2012

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 10/10/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0

GPC Cleanup:(Y/N) N pH: Sulfur Cleanup: (Y/N) Y

Acid Cleanup:(Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	3.4	
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	3.4	
37324-23-5	Aroclor-1262	1.0	U
11100-14-4	Aroclor-1268	1.0	U

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-8MSD(1)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L2071-05BMSD

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E3J6148F.D

% Moisture: Decanted: (Y/N) Date Received: 10/02/2012

Extraction: (Type) SEPF Date Extracted: 10/04/2012

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 10/10/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0

GPC Cleanup:(Y/N) N pH: Sulfur Cleanup: (Y/N) Y

Acid Cleanup:(Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	3.7	
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	3.7	
37324-23-5	Aroclor-1262	1.0	U
11100-14-4	Aroclor-1268	1.0	U

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-8MSD(2)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L2071-05BMSD

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E3J6148R.D

% Moisture: Decanted: (Y/N) Date Received: 10/02/2012

Extraction: (Type) SEPF Date Extracted: 10/04/2012

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 10/10/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0

GPC Cleanup:(Y/N) N pH: Sulfur Cleanup: (Y/N) Y

Acid Cleanup:(Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	3.3	
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	3.5	
37324-23-5	Aroclor-1262	1.0	U
11100-14-4	Aroclor-1268	1.0	U

2Q - FORM II ARO-1

WATER AROCLOR SURROGATE RECOVERY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

GC Column(1): CLPPest ID: 0.53 (mm) GC Column(2): CLPPestII ID: 0.53 (mm)

	EPA SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	MB-68540	81	81	89	102			0
02	LCS-68540	82	81	89	102			0
03	MW-8	62	61	45	55			0
04	MW-8MS	71	70	61	77			0
05	MW-8MSD	71	70	65	81			0
06	DUP	63	63	56	69			0
07	MB-68672	92	95	84	93			0
08	LCS-68672	91	94	86	93			0
09	LCSD-68672	88	92	82	92			0
10	MW-7	66	71	62	77			0

	QC LIMITS
TCX = Tetrachloro-m-xylene	(34-137)
DCB = Decachlorobiphenyl	(40-135)

Column to be used to flag recovery values

* Values outside of QC limits

D Surrogate diluted out

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SW846

3J - FORM III ARO-1

WATER AROCLOR MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix Spike - EPA Sample No.: MW-8

Instrument ID: E3 GC Column : CLPPest ID: 0.53 (mm)

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS %REC	#	QC. LIMITS REC.
AR1016	4.0000	0.0000	3.6995	92		25-145
AR1260	4.0000	0.0000	3.7538	94		30-145

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD %REC	#	%RPD	#	QC LIMITS RPD	QC LIMITS REC.
AR1016	4.0000	3.6882	92		0		0-30	25-145
AR1260	4.0000	3.7433	94		0		0-30	30-145

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 2 outside limits

Spike Recovery: 0 out of 4 outside limits

COMMENTS:

3J - FORM III ARO-1

WATER AROCLOR MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Matrix Spike - EPA Sample No.: MW-8

Instrument ID: E3 GC Column : CLPPestII ID: 0.53 (mm)

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS %REC	#	QC. LIMITS REC.
AR1016	4.0000	0.0000	3.3605	84		25-145
AR1260	4.0000	0.0000	3.4171	85		30-145

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD %REC	#	%RPD	#	QC LIMITS RPD	QC LIMITS REC.
AR1016	4.0000	3.3018	83		2		0-30	25-145
AR1260	4.0000	3.5362	88		3		0-30	30-145

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 2 outside limits

Spike Recovery: 0 out of 4 outside limits

COMMENTS:

3N - FORM III ARO-3

WATER AROCLOR LABORATORY CONTROL SAMPLE RECOVERY

EPA SAMPLE NO.

LCS-68540

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Lab Sample ID: LCS-68540 LCS Lot No.: A082781

Date Extracted: 10/04/2012 Date Analyzed (1): 10/10/2012

Instrument ID (1): E3 GC Column(1): CLPPest ID: 0.53 (mm)

COMPOUND	AMOUNT ADDED (UG/L)	AMOUNT RECOVERED (UG/L)	%REC #	QC LIMITS
Aroclor-1016	4.0000	4.0103	100	25-145
Aroclor-1260	4.0000	4.1263	103	30-145

Instrument ID (2): E3 GC Column(2): CLPPestII ID: 0.53 (mm)

Date Analyzed (2): 10/10/2012

COMPOUND	AMOUNT ADDED (UG/L)	AMOUNT RECOVERED (UG/L)	%REC #	QC LIMITS
Aroclor-1016	4.0000	3.6328	91	25-145
Aroclor-1260	4.0000	3.1813	80	30-145

Column to be used to flag recovery values with an asterisk

* Values outside of QC limits

LCS Recovery: 0 out of 4 outside limits.

COMMENTS:

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3N - FORM III ARO-3

WATER AROCLOR LABORATORY CONTROL SAMPLE RECOVERY

EPA SAMPLE NO.

LCS-68672

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Lab Sample ID: LCS-68672 LCS Lot No.: A082781

Date Extracted: 10/11/2012 Date Analyzed (1): 10/12/2012

Instrument ID (1): E2 GC Column(1): CLPPest ID: 0.53 (mm)

COMPOUND	AMOUNT ADDED (UG/L)	AMOUNT RECOVERED (UG/L)	%REC #	QC LIMITS
Aroclor-1016	4.0000	3.9140	98	25-145
Aroclor-1260	4.0000	3.2499	81	30-145

Instrument ID (2): E2 GC Column(2): CLPPestII ID: 0.53 (mm)

Date Analyzed (2): 10/12/2012

COMPOUND	AMOUNT ADDED (UG/L)	AMOUNT RECOVERED (UG/L)	%REC #	QC LIMITS
Aroclor-1016	4.0000	3.9697	99	25-145
Aroclor-1260	4.0000	3.7218	93	30-145

Column to be used to flag recovery values with an asterisk

* Values outside of QC limits

LCS Recovery: 0 out of 4 outside limits.

COMMENTS:

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3N - FORM III ARO-3
WATER AROCLOR LABORATORY CONTROL
SAMPLE DUPLICATE RECOVERY

EPA SAMPLE NO.
LCSD-68672

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Lab Sample ID: LCSD-68672 LCS Lot No.: A082781

Date Extracted: 10/11/2012 Date Analyzed (1): 10/12/2012

Instrument ID (1): E2 GC Column(1): CLPPest ID: 0.53 (mm)

COMPOUND	AMOUNT ADDED (UG/L)	AMOUNT RECOVERED (UG/L)	%REC	#	QC LIMITS	%RPD	#	RPD LIMIT
Aroclor-1016	4.0000	3.7822	95		25-145	3.0		30
Aroclor-1260	4.0000	3.2110	80		30-145	1.0		30

Instrument ID (2): E2 GC Column(2): CLPPestII ID: 0.53 (mm)

Date Analyzed (2): 10/12/2012

COMPOUND	AMOUNT ADDED (UG/L)	AMOUNT RECOVERED (UG/L)	%REC	#	QC LIMITS	%RPD	#	RPD LIMIT
Aroclor-1016	4.0000	4.4430	111		25-145	11		30
Aroclor-1260	4.0000	3.7502	94		30-145	1.0		30

Column to be used to flag recovery values with an asterisk
* Values outside of QC limits

LCS Recovery: 0 out of 4 outside limits.

RPD: 0 out of 4 outside limits.

COMMENTS:

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4F - FORM IV ARO

AROCLOR METHOD BLANK SUMMARY

EPA SAMPLE NO.

MB-68672

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Lab File ID: E2L4718F.D / E2L4718R.D Lab Sample ID: MB-68672

Matrix: (SOIL/SED/WATER) WATER Extraction: (Type) SEPF Date Extracted: 10/11/2012

Sulfur Cleanup: (Y/N) Y GPC Cleanup:(Y/N) N

Acid Cleanup: (Y/N Y

Date Analyzed (1): 10/12/2012 Date Analyzed (2): 10/12/2012

Time Analyzed (1): 11:14 Time Analyzed (2): 11:14

Instrument ID (1): E2 Instrument ID (2): E2

GC Column(1): CLPPest ID: 0.53 (mm) GC Column(2): CLPPestII ID: 0.53 (mm)

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED (1)	DATE ANALYZED (2)
01	LCS-68672	LCS-68672	10/12/2012	10/12/2012
02	LCSD-68672	LCSD-68672	10/12/2012	10/12/2012
03	MW-7	L2071-10B	10/12/2012	10/12/2012

COMMENTS:

4F - FORM IV ARO

AROCLOR METHOD BLANK SUMMARY

EPA SAMPLE NO.

MB-68540

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2071 Mod. Ref No.: SDG No.: SL2071

Lab File ID: E3J6144F.D / E3J6144R.D Lab Sample ID: MB-68540

Matrix: (SOIL/SED/WATER) WATER Extraction: (Type) SEPF Date Extracted: 10/04/2012

Sulfur Cleanup: (Y/N) Y GPC Cleanup:(Y/N) N

Acid Cleanup: (Y/N Y

Date Analyzed (1): 10/10/2012 Date Analyzed (2): 10/10/2012

Time Analyzed (1): 10:53 Time Analyzed (2): 10:53

Instrument ID (1): E3 Instrument ID (2): E3

GC Column(1): CLPPest ID: 0.53 (mm) GC Column(2): CLPPestII ID: 0.53 (mm)

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED (1)	DATE ANALYZED (2)
01	LCS-68540	LCS-68540	10/10/2012	10/10/2012
02	MW-8	L2071-05B	10/10/2012	10/10/2012
03	MW-8MS	L2071-05BMS	10/10/2012	10/10/2012
04	MW-8MSD	L2071-05BMSD	10/10/2012	10/10/2012
05	DUP	L2071-06B	10/10/2012	10/10/2012

COMMENTS:



* Metals *

REPORT NARRATIVE

Spectrum Analytical, Inc. Featuring Hanibal Technology, RI Division.

Client : ARCADIS U.S., Inc.

Project: S&S Dry Cleaners & Dyers

Laboratory Workorder / SDG #: L2071

SW846 6010C, SW846 7470A

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code: SW846 6010C, SW846 7470A.

IV. PREPARATION

Aqueous Samples were prepared following procedures in laboratory test code: SW3005A and SW7470A.

V. INSTRUMENTATION

The following instrumentation was used:

Instrument Code: FIMS2
Instrument Type: CVAA
Description: FIMS
Manufacturer: Perkin-Elmer
Model: FIMS100

Instrument Code: OPTIMA3
Instrument Type: ICP
Description: Optima ICP-OES
Manufacturer: Perkin-Elmer
Model: 4300 DV

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for laboratory control samples were within the QC limits.

2. Matrix spike (MS):

Matrix spikes were performed on sample: MW-8 (L2071-05CMS).

Percent recoveries were within the QC limits.

D. Post Digestion Spike (PDS):

A post-digestion spike was not performed on any sample in this SDG.

E. Duplicate sample:

Duplicate analyses were performed on sample: MW-8 (L2071-05CDUP).

Relative percent differences were within the QC limits.

F. Serial Dilution (SD):

Serial Dilution analyses were performed on samples: MW-7 (L2071-10CSD) and MW-8 (L2071-05CSD).

Percent differences were within the QC limits with the exception of the following:

MW-8 (L2071-05CSD), Serial Dilution analysis not within control limit for Potassium.

MW-7 (L2071-10CSD), Serial Dilution analysis not within control limit for Potassium.

G. Samples:

No other unusual occurrences were noted during sample analysis.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Signed: 

Date: 10/23/12

Data Flag/Qualifiers:

U Not Detected. This compound was analyzed-for but not detected. For most analyses the reporting limit (lowest standard concentration) is the value listed. For Department of Defense programs, this is the Limit of Detection (LOD).

J This flag indicates an estimated value due to either
- the compound was detected below the reporting limit, or
- estimated concentration for Tentatively Identified Compound

B This flag indicates the compound was also detected in the associated Method Blank. The B flag has an alternative meaning for Inorganics analyses reported using CLP ILM-type metals forms, indicating a "trace" concentration below the reporting limit and equal to or above the detection limit.

D For Organics analysis, this flag indicates the compound concentration was obtained from a secondary dilution analysis

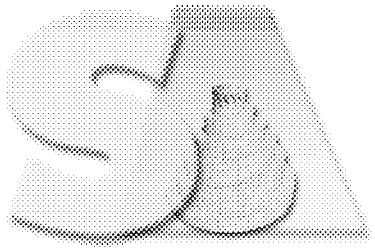
E This flag indicates the compound concentration exceeded the Calibration Range. The E flag has an alternative meaning for Inorganics analyses reported using CLP metals forms, indicating an estimated concentration due to the presence of interferences, as determined by the serial dilution analysis.

P This flag is used for pesticides/PCB/herbicide compound when there is a greater than 40% difference for detected concentration between the two GC columns used for primary and confirmation analyses. This difference typically indicates an interference, causing one value to be unusually high. The **lower** of the two values is generally reported on the Form 1, and both values reported on the Form 10.

A Used to flag semivolatile organic Tentatively Identified Compound library search results for compounds identified as aldol condensation byproducts.

N Used to flag results for volatile and semivolatile Organics analysis Tentatively Identified Compounds where an analyte has passed the identification criteria, and is considered to be positively identified. For Inorganics analysis the N flag indicates the matrix spike recovery falls outside of the control limit.

* For Inorganics analysis the * flag indicates Relative Percent Difference for duplicate analyses is outside of the control limit.



SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

Sample ID Suffixes

DL Diluted analysis. The sample was diluted and reanalyzed. The DL may be followed by a digit if more than one diluted reanalysis is provided. The DL suffix is not attached to an analysis initially performed at dilution, only to reanalyses performed at dilution

RE Reanalysis. Appended to the client sample ID to indicate a reextraction and reanalysis or a reanalysis of the original sample extract.

RA Reanalysis. Appended to the laboratory sample ID indicates a reanalysis of the original sample extract.

RX Reextraction. Appended to the laboratory sample ID indicates a reextraction of the sample.

MS Matrix Spike.

MSD Matrix Spike Duplicate

DUP Duplicate analysis

SD Serial Dilution

PS Post-digestion or Post-distillation spike. For metals or inorganic analyses

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

DUP

Lab Name: Spectrum Analytical, Inc. Contract: 266396

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL2071

Matrix (soil/water): WATER Lab Sample ID: L2071-06

Level (low/med): MED Date Received: 10/02/2012

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	66.0	U		P
7440-36-0	Antimony	13.5	B		P
7440-38-2	Arsenic	4.3	U		P
7440-39-3	Barium	51.4	B		P
7440-41-7	Beryllium	0.26	U		P
7440-43-9	Cadmium	0.89	U		P
7440-70-2	Calcium	63300			P
7440-47-3	Chromium	3.9	B		P
7440-48-4	Cobalt	0.67	U		P
7440-50-8	Copper	4.1	B		P
7439-89-6	Iron	88.3	B		P
7439-92-1	Lead	4.2	U		P
7439-95-4	Magnesium	15700			P
7439-96-5	Manganese	25.3	B		P
7439-97-6	Mercury	0.028	U		CV
7440-02-0	Nickel	0.85	U		P
7440-09-7	Potassium	7380		E	P
7782-49-2	Selenium	12.0	U		P
7440-22-4	Silver	6.9	U		P
7440-23-5	Sodium	140000			P
7440-28-0	Thallium	6.2	U		P
7440-62-2	Vanadium	3.1	B		P
7440-66-6	Zinc	8.9	B		P

Comments:

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

MW-7

Lab Name: Spectrum Analytical, Inc. Contract: 266396

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL2071

Matrix (soil/water): WATER Lab Sample ID: L2071-10

Level (low/med): MED Date Received: 10/05/2012

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	123	B		P
7440-36-0	Antimony	9.3	U		P
7440-38-2	Arsenic	4.3	U		P
7440-39-3	Barium	60.8	B		P
7440-41-7	Beryllium	0.26	U		P
7440-43-9	Cadmium	0.89	U		P
7440-70-2	Calcium	101000			P
7440-47-3	Chromium	0.64	U		P
7440-48-4	Cobalt	0.67	U		P
7440-50-8	Copper	3.6	U		P
7439-89-6	Iron	218			P
7439-92-1	Lead	4.2	U		P
7439-95-4	Magnesium	99600			P
7439-96-5	Manganese	92.7			P
7439-97-6	Mercury	0.028	U		CV
7440-02-0	Nickel	1.7	B		P
7440-09-7	Potassium	5340		E	P
7782-49-2	Selenium	12.0	U		P
7440-22-4	Silver	6.9	U		P
7440-23-5	Sodium	100000			P
7440-28-0	Thallium	6.2	U		P
7440-62-2	Vanadium	1.1	U		P
7440-66-6	Zinc	7.7	B		P

Comments:

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

MW-8

Lab Name: Spectrum Analytical, Inc. Contract: 266396

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL2071

Matrix (soil/water): WATER Lab Sample ID: L2071-05

Level (low/med): MED Date Received: 10/02/2012

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	72.0	B		P
7440-36-0	Antimony	11.4	B		P
7440-38-2	Arsenic	4.3	U		P
7440-39-3	Barium	52.4	B		P
7440-41-7	Beryllium	0.26	U		P
7440-43-9	Cadmium	0.89	U		P
7440-70-2	Calcium	64400			P
7440-47-3	Chromium	3.7	B		P
7440-48-4	Cobalt	0.67	U		P
7440-50-8	Copper	3.6	U		P
7439-89-6	Iron	101	B		P
7439-92-1	Lead	4.2	U		P
7439-95-4	Magnesium	16100			P
7439-96-5	Manganese	28.9	B		P
7439-97-6	Mercury	0.028	U		CV
7440-02-0	Nickel	0.86	B		P
7440-09-7	Potassium	7550		E	P
7782-49-2	Selenium	12.0	U		P
7440-22-4	Silver	6.9	U		P
7440-23-5	Sodium	142000			P
7440-28-0	Thallium	6.2	U		P
7440-62-2	Vanadium	2.8	B		P
7440-66-6	Zinc	6.6	B		P

Comments:

LABORATORY CONTROL SAMPLE

Lab Name: Spectrum Analytical, Inc. Contract: 266396

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL2071

Solid LCS Source:

Aqueous LCS Source:

LCS(D) ID:
LCS-68609

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/Kg) True	Found	C	Limits		%R
Mercury	4.6	4.20	91.3						

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7

LABORATORY CONTROL SAMPLE

Lab Name: Spectrum Analytical, Inc. Contract: 266396

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL2071

Solid LCS Source: LCS(D) ID:

Aqueous LCS Source: **LCS-68804**

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/Kg) True	Found	C	Limits		%R
Aluminum	9100.0	9196.63	101.1						
Antimony	455.0	484.66	106.5						
Arsenic	455.0	454.07	99.8						
Barium	9100.0	9408.89	103.4						
Beryllium	227.0	232.58	102.5						
Cadmium	227.0	226.24	99.7						
Calcium	22700.0	22256.75	98.0						
Chromium	910.0	902.43	99.2						
Cobalt	2270.0	2276.20	100.3						
Copper	1130.0	1117.18	98.9						
Iron	4550.0	4480.26	98.5						
Lead	455.0	456.09	100.2						
Magnesium	22700.0	23181.15	102.1						
Manganese	2270.0	2321.28	102.3						
Nickel	2270.0	2282.30	100.5						
Potassium	22700.0	23872.27	105.2						
Selenium	455.0	440.89	96.9						
Silver	1130.0	1175.09	104.0						
Sodium	22700.0	23902.18	105.3						
Thallium	455.0	426.46	93.7						
Vanadium	2270.0	2246.40	99.0						
Zinc	2270.0	2274.52	100.2						

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7

LABORATORY CONTROL SAMPLE

Lab Name: Spectrum Analytical, Inc. Contract: 266396

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL2071

Solid LCS Source: LCS(D) ID:

Aqueous LCS Source: **LCS-68805**

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/Kg) True	Found	C	Limits		%R
Aluminum	9100.0	9113.47	100.1						
Antimony	455.0	477.95	105.0						
Arsenic	455.0	469.89	103.3						
Barium	9100.0	9407.88	103.4						
Beryllium	227.0	232.76	102.5						
Cadmium	227.0	228.56	100.7						
Calcium	22700.0	22218.55	97.9						
Chromium	910.0	894.19	98.3						
Cobalt	2270.0	2254.68	99.3						
Copper	1130.0	1110.26	98.3						
Iron	4550.0	4432.53	97.4						
Lead	455.0	464.79	102.2						
Magnesium	22700.0	23216.58	102.3						
Manganese	2270.0	2324.42	102.4						
Nickel	2270.0	2262.54	99.7						
Potassium	22700.0	23567.39	103.8						
Selenium	455.0	451.96	99.3						
Silver	1130.0	1170.69	103.6						
Sodium	22700.0	23592.01	103.9						
Thallium	455.0	432.96	95.2						
Vanadium	2270.0	2228.38	98.2						
Zinc	2270.0	2253.18	99.3						

7

LABORATORY CONTROL SAMPLE

Lab Name: Spectrum Analytical, Inc. Contract: 266396

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL2071

Solid LCS Source: LCS(D) ID:

Aqueous LCS Source: **LCSD-68805**

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/Kg) True	Found	C	Limits		%R
Aluminum	9100.0	9265.52	101.8						
Antimony	455.0	425.67	93.6						
Arsenic	455.0	472.30	103.8						
Barium	9100.0	9423.46	103.6						
Beryllium	227.0	233.70	103.0						
Cadmium	227.0	234.42	103.3						
Calcium	22700.0	22240.31	98.0						
Chromium	910.0	917.03	100.8						
Cobalt	2270.0	2306.34	101.6						
Copper	1130.0	1130.60	100.1						
Iron	4550.0	4527.75	99.5						
Lead	455.0	465.33	102.3						
Magnesium	22700.0	23341.10	102.8						
Manganese	2270.0	2329.61	102.6						
Nickel	2270.0	2313.52	101.9						
Potassium	22700.0	24160.40	106.4						
Selenium	455.0	461.92	101.5						
Silver	1130.0	1193.47	105.6						
Sodium	22700.0	23951.28	105.5						
Thallium	455.0	435.13	95.6						
Vanadium	2270.0	2280.99	100.5						
Zinc	2270.0	2318.76	102.1						

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5A

SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

MW-8S

Lab Name: Spectrum Analytical, Inc. Contract: 266396

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL2071

Matrix (soil/water): WATER Level (low/med): MED

% Solids for Sample: 0.0

Concentration Units (ug/L or mg/kg dry weight): ug/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum	75-125	9670		72.0	B	9100	106		P
Antimony	75-125	507		11.4	B	456	109		P
Arsenic	75-125	486		4.3	U	456	107		P
Barium	75-125	9550		52.4	B	9100	104		P
Beryllium	75-125	237		0.26	U	227	105		P
Cadmium	75-125	232		0.89	U	227	102		P
Chromium	75-125	930		3.7	B	910	102		P
Cobalt	75-125	2320		0.67	U	2270	102		P
Copper	75-125	1180		3.6	U	1130	104		P
Iron	75-125	4680		101	B	4550	101		P
Lead	75-125	459		4.2	U	455	101		P
Manganese	75-125	2390		28.9	B	2270	104		P
Nickel	75-125	2320		0.86	B	2270	102		P
Selenium	75-125	456		12.0	U	455	100		P
Silver	75-125	1210		6.9	U	1130	107		P
Thallium	75-125	423		6.2	U	455	93		P
Vanadium	75-125	2340		2.8	B	2270	103		P
Zinc	75-125	2330		6.6	B	2270	102		P
Mercury	75-125	4.7		0.028	U	4.6	103		CV

Comments:

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6

DUPLICATES

EPA SAMPLE NO.

MW-8D

Lab Name: Spectrum Analytical, Inc. Contract: 266396

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL2071

Matrix (soil/water): WATER Level (low/med): MED

% Solids for Sample: 0.0 % Solids for Duplicate: 0.0

Concentration Units (ug/L or mg/kg dry weight): ug/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum		71.9549	B	66.0000	U	200		P
Antimony		11.4335	B	13.0342	B	13.1		P
Arsenic		4.3000	U	4.3000	U			P
Barium		52.3955	B	50.5324	B	3.6		P
Beryllium		0.2600	U	0.2600	U			P
Cadmium		0.8900	U	0.8900	U			P
Calcium		64354.0691		62964.6474		2.2		P
Chromium		3.6687	B	3.5633	B	2.9		P
Cobalt		0.6700	U	0.6700	U			P
Copper		3.6000	U	3.6000	U			P
Iron		100.5550	B	104.7384	B	4.1		P
Lead		4.2000	U	4.2000	U			P
Magnesium		16107.5893		15867.0663		1.5		P
Manganese		28.9311	B	28.3743	B	1.9		P
Nickel		0.8570	B	0.8500	U	200		P
Potassium		7550.2835		7494.3757		0.7		P
Selenium		12.0000	U	12.0000	U			P
Silver		6.9000	U	6.9000	U			P
Sodium		141503.3735		140108.7973		1		P
Thallium		6.2000	U	6.2000	U			P
Vanadium		2.8326	B	2.2067	B	24.8		P
Zinc		6.6412	B	5.8896	B	12		P
Mercury		0.0280	U	0.0280	U			CV

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3

BLANKS

Lab Name: Spectrum Analytical, Inc. Contract: 266396

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL2071

Preparation Blank Matrix (soil/water): WATER

Method Blank ID: **MB-68609**

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

FIMS2_121010B

	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		
Analyte		C	10/10/12 13:41	C	10/10/12 14:00	C	10/10/12 14:18	C		C	M
Mercury	0.028	U	0.028	U	0.028	U	0.028	U	0.028	U	CV

3

BLANKS

Lab Name: Spectrum Analytical, Inc. Contract: 266396

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL2071

Preparation Blank Matrix (soil/water): WATER

Method Blank ID: **MB-68804**

Preparation Blank Concentration Units (ug/L or mg/kg): ug/L

OPTIMA3_121018C

	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		
Analyte		C	10/18/12 14:52	C	10/18/12 15:25	C	10/18/12 15:58	C		C	M
Aluminum	66.0	U	66.0	U	66.0	U	66.0	U	66.000	U	P
Antimony	9.3	U	12.9	B	9.3	U	9.3	U	9.351	B	P
Arsenic	4.3	U	4.3	U	-6.6	B	4.3	U	4.300	U	P
Barium	1.1	U	1.1	U	1.9	B	1.9	B	1.100	U	P
Beryllium	0.3	U	0.3	U	0.3	U	0.3	U	0.260	U	P
Cadmium	0.9	U	0.9	U	0.9	U	0.9	U	0.890	U	P
Calcium	110.0	U	110.0	U	110.0	U	110.0	U	110.000	U	P
Chromium	0.6	U	0.6	U	0.6	U	0.6	U	0.640	U	P
Cobalt	0.7	U	0.7	U	0.7	U	0.7	U	0.670	U	P
Copper	3.6	U	3.6	U	3.6	U	3.6	U	3.600	U	P
Iron	31.0	U	31.0	U	31.0	U	31.0	U	31.000	U	P
Lead	4.2	U	4.2	U	4.2	U	4.2	U	4.200	U	P
Magnesium	76.0	U	76.0	U	76.0	U	76.0	U	76.000	U	P
Manganese	10.0	U	10.0	U	10.0	U	10.0	U	10.000	U	P
Nickel	0.9	U	0.8	U	0.8	U	0.8	U	0.850	U	P
Potassium	105.6	B	114.5	B	593.5	B	450.6	B	76.000	U	P
Selenium	12.0	U	12.0	U	12.0	U	12.0	U	12.000	U	P
Silver	7.4	B	6.9	U	6.9	U	6.9	U	6.900	U	P
Sodium	29.0	U	29.0	U	67.5	B	110.4	B	29.000	U	P
Thallium	6.2	U	6.2	U	6.2	U	6.2	U	6.200	U	P
Vanadium	1.1	U	1.1	U	1.1	U	1.1	U	1.100	U	P
Zinc	4.9	U	4.9	U	4.9	U	4.9	U	4.900	U	P

3

BLANKS

Lab Name: Spectrum Analytical, Inc. Contract: 266396

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL2071

Preparation Blank Matrix (soil/water): WATER

Method Blank ID: **MB-68805**

Preparation Blank Concentration Units (ug/L or mg/kg): ug/L

OPTIMA3_121018C

	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		
Analyte		C	10/18/12 16:28	C		C		C		C	M
Aluminum			66.0	U					66.000	U	P
Antimony			9.3	U					9.300	U	P
Arsenic			-4.5	B					4.300	U	P
Barium			2.6	B					1.100	U	P
Beryllium			0.3	U					0.260	U	P
Cadmium			0.9	U					0.890	U	P
Calcium			110.0	U					110.000	U	P
Chromium			0.6	U					0.640	U	P
Cobalt			0.7	U					0.670	U	P
Copper			3.6	U					3.600	U	P
Iron			31.0	U					31.000	U	P
Lead			4.2	U					4.200	U	P
Magnesium			76.0	U					76.000	U	P
Manganese			10.0	U					10.000	U	P
Nickel			1.0	B					0.850	U	P
Potassium			262.0	B					219.689	B	P
Selenium			12.0	U					12.000	U	P
Silver			6.9	U					6.900	U	P
Sodium			80.1	B					33.268	B	P
Thallium			6.2	U					6.200	U	P
Vanadium			1.1	U					1.100	U	P
Zinc			4.9	U					4.900	U	P

Report Date:
08-Jan-13 11:22

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

☑ Final Report
☐ Re-Issued Report
☐ Revised Report

Laboratory Report

ARCADIS U.S., Inc.
855 Route 146, Suite 210
Clifton Park, NY 12065

Work Order: L2612
Project : S&S Dry Cleaners & Dyers
Project #: 0266396.0000

Attn: Andy Vitolins

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
L2612-01	SB-12(6-7)	Soil	19-Dec-12 08:50	20-Dec-12 14:10
L2612-02	SB-12(8-9)	Soil	19-Dec-12 08:51	20-Dec-12 14:10
L2612-03	SB-12(9-10)	Soil	19-Dec-12 08:52	20-Dec-12 14:10
L2612-04	SB-12(10-11)	Soil	19-Dec-12 09:05	20-Dec-12 14:10
L2612-05	SB-13(7-8)	Soil	19-Dec-12 09:35	20-Dec-12 14:10
L2612-06	SB-13(5-6)	Soil	19-Dec-12 09:38	20-Dec-12 14:10
L2612-07	SB-13(8-9)	Soil	19-Dec-12 09:40	20-Dec-12 14:10
L2612-08	SB-13(9-10)	Soil	19-Dec-12 09:42	20-Dec-12 14:10
L2612-09	SB-13(10-11)	Soil	19-Dec-12 09:45	20-Dec-12 14:10
L2612-10	DUP-A	Soil	19-Dec-12 09:50	20-Dec-12 14:10
L2612-11	SB-14(0-1)	Soil	19-Dec-12 10:05	20-Dec-12 14:10
L2612-12	SB-14(2-3)	Soil	19-Dec-12 10:10	20-Dec-12 14:10
L2612-13	SB-14(5-6)	Soil	19-Dec-12 10:20	20-Dec-12 14:10
L2612-14	SB-14(7-8)	Soil	19-Dec-12 10:23	20-Dec-12 14:10
L2612-15	SB-14(8-9)	Soil	19-Dec-12 10:25	20-Dec-12 14:10
L2612-16	MW-4(121912)	Aqueous	19-Dec-12 12:40	20-Dec-12 14:10
L2612-17	TRIP BLANK	Aqueous	19-Dec-12 00:00	20-Dec-12 14:10

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. The results relate only to the samples(s) as received. This report may not be reproduced, except in full, without written approval from Spectrum Analytical.

All applicable NELAC or USEPA CLP requirments have been meet.

Spectrum Analytical (Rhode Island) is accredited under the National Environmental Laboratory Approval Program (NELAP) and DoD Environmental Laboratory Accreditation Program (ELAP), holds Organic and Inorganic contracts under the USEPA CLP Program and is certified under several states. The current list of our laboratory approvals and certifications is available on the Certifications page on our web site at www.spectrum-analytical.com.

Please contact the Laboratory or Technical Director at 401-732-3400 with any questions regarding the data contained in the laboratory report.

Department of Defense	N/A
Connecticut	PH-0153
Delaware	N/A
Florida	E87664
Maine	2007037
Massachusetts	M-RI907
New Hampshire	2631
New Jersey	RI001
New York	11522
North Carolina	581
Rhode Island	LAI00301
USDA	P330-08-00023
USEPA - ISM	EP-W-09-039
USEPA - SOM	EP-W-11-033

NELAP ACCREDITED TNI LABORATORY

LABORATORY ACCREDITATION BUREAU ACCREDITED
DoD ELAP
Certificate # L2247 Testing

Authorized by:

Yihai Ding
Laboratory Director



SPECTRUM ANALYTICAL, INC.
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HANIBAL TECHNOLOGY

* Data Summary Pack *

175 Metro Center Boulevard · Warwick, RI 02886-1755 · 401-732-3400 · FAX 401-732-3499
www.spectrum-analytical.com

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

New York State Department of Environmental Conservation
Sample Identification and Analytical Requirements Summary

Project Name : S&S Dry Cleaners & Dyers -- 0266396.0000 **SDG :** L2612

Customer Sample ID	Laboratory Sample ID	Analytical Requirements				
		MSVOA Method #	MSSEMI Method #	GC* Method #	ME	Other
SB-12(6-7)	L2612-01	SW8260_LOW_S				
SB-12(8-9)	L2612-02	SW8260_LOW_S				
SB-12(8-9)	L2612-02	SW8260_MED_S				
SB-12(9-10)	L2612-03	SW8260_LOW_S				
SB-12(10-11)	L2612-04	SW8260_LOW_S	SW8270_S	SW8081_S	SW6010_S	
SB-12(10-11)	L2612-04			SW8082_S	SW7471	
SB-13(7-8)	L2612-05	SW8260_LOW_S	SW8270_S	SW8081_S	SW6010_S	
SB-13(7-8)	L2612-05			SW8082_S	SW7471	
SB-13(5-6)	L2612-06	SW8260_LOW_S				
SB-13(8-9)	L2612-07	SW8260_LOW_S				
SB-13(9-10)	L2612-08	SW8260_LOW_S				
SB-13(9-10)	L2612-08	SW8260_MED_S				
SB-13(10-11)	L2612-09	SW8260_LOW_S				
SB-13(10-11)	L2612-09	SW8260_MED_S				
DUP-A	L2612-10	SW8260_LOW_S				
DUP-A	L2612-10	SW8260_MED_S				
SB-14(0-1)	L2612-11	SW8260_LOW_S				
SB-14(2-3)	L2612-12	SW8260_LOW_S				
SB-14(5-6)	L2612-13	SW8260_LOW_S	SW8270_S	SW8081_S	SW6010_S	
SB-14(5-6)	L2612-13			SW8082_S	SW7471	
SB-14(7-8)	L2612-14	SW8260_LOW_S				
SB-14(8-9)	L2612-15	SW8260_LOW_S				
MW-4(121912)	L2612-16	SW8260_W				
TRIP BLANK	L2612-17	SW8260_W				

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

New York State Department of Environmental Conservation
Sample Preparation and Analysis Summary MSVOA

Project Name : S&S Dry Cleaners & Dyers -- 0266396.0000 **SDG :** L2612

Laboratory Sample ID	Matrix	Date Collected	Date Received By Lab	Date Extracted	Date Analyzed
SW8260_LOW_S					
L2612-01A	SL	12/19/2012	12/20/2012	NA	12/26/2012
L2612-02A	SL	12/19/2012	12/20/2012	NA	12/26/2012
L2612-03A	SL	12/19/2012	12/20/2012	NA	12/27/2012
L2612-04C	SL	12/19/2012	12/20/2012	NA	12/26/2012
L2612-05C	SL	12/19/2012	12/20/2012	NA	12/26/2012
L2612-06A	SL	12/19/2012	12/20/2012	NA	12/26/2012
L2612-07A	SL	12/19/2012	12/20/2012	NA	12/26/2012
L2612-08A	SL	12/19/2012	12/20/2012	NA	12/26/2012
L2612-09A	SL	12/19/2012	12/20/2012	NA	12/26/2012
L2612-10A	SL	12/19/2012	12/20/2012	NA	12/26/2012
L2612-11A	SL	12/19/2012	12/20/2012	NA	12/26/2012
L2612-11ADL	SL	12/19/2012	12/20/2012	NA	12/27/2012
L2612-12A	SL	12/19/2012	12/20/2012	NA	12/27/2012
L2612-13C	SL	12/19/2012	12/20/2012	NA	12/26/2012
L2612-14A	SL	12/19/2012	12/20/2012	NA	12/26/2012
L2612-15A	SL	12/19/2012	12/20/2012	NA	12/26/2012
SW8260_MED_S					
L2612-02A	SL	12/19/2012	12/20/2012	1/2/2013	1/3/2013
L2612-08A	SL	12/19/2012	12/20/2012	1/2/2013	12/28/2012
L2612-09A	SL	12/19/2012	12/20/2012	12/28/2012	12/28/2012
L2612-10A	SL	12/19/2012	12/20/2012	12/28/2012	12/28/2012
SW8260_W					
L2612-16A	AQ	12/19/2012	12/20/2012	NA	12/28/2012
L2612-17A	AQ	12/19/2012	12/20/2012	NA	12/28/2012

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

New York State Department of Environmental Conservation
Sample Preparation and Analysis Summary MSSEMI

Project Name : S&S Dry Cleaners & Dyers -- 0266396.0000 **SDG :** L2612

Laboratory Sample ID	Matrix	Date Collected	Date Received By Lab	Date Extracted	Date Analyzed
SW8270_S					
L2612-04A	SL	12/19/2012	12/20/2012	12/21/2012	12/21/2012
L2612-05A	SL	12/19/2012	12/20/2012	12/21/2012	12/21/2012
L2612-13A	SL	12/19/2012	12/20/2012	12/21/2012	12/21/2012

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

New York State Department of Environmental Conservation
Sample Preparation and Analysis Summary GC*

Project Name : S&S Dry Cleaners & Dyers -- 0266396.0000 **SDG :** L2612

Laboratory Sample ID	Matrix	Date Collected	Date Received By Lab	Date Extracted	Date Analyzed
SW8081_S					
L2612-04A	SL	12/19/2012	12/20/2012	12/21/2012	12/21/2012
L2612-05A	SL	12/19/2012	12/20/2012	12/21/2012	12/21/2012
L2612-13A	SL	12/19/2012	12/20/2012	12/21/2012	12/21/2012
SW8082_S					
L2612-04A	SL	12/19/2012	12/20/2012	12/23/2012	12/26/2012
L2612-05A	SL	12/19/2012	12/20/2012	12/23/2012	12/26/2012
L2612-13A	SL	12/19/2012	12/20/2012	12/23/2012	12/26/2012

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

New York State Department of Environmental Conservation
Sample Preparation and Analysis Summary MSVOA

Project Name : S&S Dry Cleaners & Dyers -- 0266396.0000 **SDG :** L2612

Laboratory Sample ID	Matrix	Analytical Protocol	Extraction Method	Low/Medium Level	Dil/Conc Factor
SW8260_LOW_S					
L2612-01A	SL	SW8260_LOW_S	NA	LOW	1
L2612-02A	SL	SW8260_LOW_S	NA	LOW	1
L2612-03A	SL	SW8260_LOW_S	NA	LOW	1
L2612-04C	SL	SW8260_LOW_S	NA	LOW	1
L2612-05C	SL	SW8260_LOW_S	NA	LOW	1
L2612-06A	SL	SW8260_LOW_S	NA	LOW	1
L2612-07A	SL	SW8260_LOW_S	NA	LOW	1
L2612-08A	SL	SW8260_LOW_S	NA	LOW	1
L2612-09A	SL	SW8260_LOW_S	NA	LOW	1
L2612-10A	SL	SW8260_LOW_S	NA	LOW	1
L2612-11A	SL	SW8260_LOW_S	NA	LOW	1
L2612-11ADL	SL	SW8260_LOW_S	NA	LOW	1
L2612-12A	SL	SW8260_LOW_S	NA	LOW	1
L2612-13C	SL	SW8260_LOW_S	NA	LOW	1
L2612-14A	SL	SW8260_LOW_S	NA	LOW	1
L2612-15A	SL	SW8260_LOW_S	NA	LOW	1
SW8260_MED_S					
L2612-02A	SL	SW8260_MED_S	SW5035_MED_PR	MED	10
L2612-08A	SL	SW8260_MED_S	SW5035_MED_PR	MED	1
L2612-09A	SL	SW8260_MED_S	SW5035_MED_PR	MED	1
L2612-10A	SL	SW8260_MED_S	SW5035_MED_PR	MED	1
SW8260_W					
L2612-16A	AQ	SW8260_W	NA	LOW	1
L2612-17A	AQ	SW8260_W	NA	LOW	1

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

New York State Department of Environmental Conservation
Sample Preparation and Analysis Summary MSSEMI

Project Name : S&S Dry Cleaners & Dyers -- 0266396.0000 **SDG :** L2612

Laboratory Sample ID	Matrix	Analytical Protocol	Extraction Method	Auxiliary Cleanup	Dil/Conc Factor
SW8270_S					
L2612-04A	SL	SW8270_S	3550B	NA	1
L2612-05A	SL	SW8270_S	3550B	NA	1
L2612-13A	SL	SW8270_S	3550B	NA	1

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

New York State Department of Environmental Conservation
Sample Preparation and Analysis Summary GC*

Project Name : S&S Dry Cleaners & Dyers -- 0266396.0000 **SDG :** L2612

Laboratory Sample ID	Matrix	Analytical Protocol	Extraction Method	Auxiliary Cleanup	Dil/Conc Factor
SW8081_S					
L2612-04A	SL	SW8081_S	3550B	Sulfur	1
L2612-05A	SL	SW8081_S	3550B	Sulfur	1
L2612-13A	SL	SW8081_S	3550B	Sulfur	1
SW8082_S					
L2612-04A	SL	SW8082_S	3550B	Acid/Sulfur	1
L2612-05A	SL	SW8082_S	3550B	Acid/Sulfur	1
L2612-13A	SL	SW8082_S	3550B	Acid/Sulfur	1

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

New York State Department of Environmental Conservation
Sample Preparation and Analysis Summary ME

Project Name : S&S Dry Cleaners & Dyers -- 0266396.0000 **SDG :** L2612

Laboratory Sample ID	Matrix	Metals Requested	Date Received By Lab	Date Analyzed
SW6010_S				
L2612-04B	SL	SW6010_S	12/20/2012	12/27/2012
L2612-05B	SL	SW6010_S	12/20/2012	12/27/2012
L2612-13B	SL	SW6010_S	12/20/2012	12/27/2012
SW7471				
L2612-04B	SL	SW7471	12/20/2012	12/27/2012
L2612-05B	SL	SW7471	12/20/2012	12/27/2012
L2612-13B	SL	SW7471	12/20/2012	12/27/2012

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

WorkOrder: L2612

Client ID: MALCOLM_LATHAM
Project: S&S Dry Cleaners & Dyers
WO Name: S&S Dry Cleaners & Dyers
Location: ARCADIS_COHOES, 0266396.0000
Comments: N/A

Case:
SDG:
PO: 00266396.0000

HC Due: 01/07/13
Fax Due:
Fax Report: ☐

Report Level: ASP-B
Special Program:
EDD: EQUIIS_4_NYSDEC

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
L2612-01A	SB-12(6-7)	12/19/2012 08:50	12/20/2012	Soil	PMoist	/					VOA
L2612-01A	SB-12(6-7)	12/19/2012 08:50	12/20/2012	Soil	SW8260_LOW_S	/ SOM List				Y	VOA
L2612-01A	SB-12(6-7)	12/19/2012 08:50	12/20/2012	Soil	SW8260_MED_S	/ SOM List		Y		Y	VOA
L2612-02A	SB-12(8-9)	12/19/2012 08:51	12/20/2012	Soil	PMoist	/					VOA
L2612-02A	SB-12(8-9)	12/19/2012 08:51	12/20/2012	Soil	SW8260_LOW_S	/ SOM List				Y	VOA
L2612-02A	SB-12(8-9)	12/19/2012 08:51	12/20/2012	Soil	SW8260_MED_S	/ SOM List				Y	VOA
L2612-03A	SB-12(9-10)	12/19/2012 08:52	12/20/2012	Soil	PMoist	/					VOA
L2612-03A	SB-12(9-10)	12/19/2012 08:52	12/20/2012	Soil	SW8260_LOW_S	/ SOM List				Y	VOA
L2612-03A	SB-12(9-10)	12/19/2012 08:52	12/20/2012	Soil	SW8260_MED_S	/ SOM List		Y		Y	VOA
L2612-04A	SB-12(10-11)	12/19/2012 09:05	12/20/2012	Soil	PMoist	/					A2
L2612-04A	SB-12(10-11)	12/19/2012 09:05	12/20/2012	Soil	SW8081_S	/					A2
L2612-04A	SB-12(10-11)	12/19/2012 09:05	12/20/2012	Soil	SW8082_S	/ +AR1262,1268				Y	A2
L2612-04A	SB-12(10-11)	12/19/2012 09:05	12/20/2012	Soil	SW8270_S	/ SOM List				Y	A2
L2612-04B	SB-12(10-11)	12/19/2012 09:05	12/20/2012	Soil	SW6010_S	/ TAL				Y	A2
L2612-04B	SB-12(10-11)	12/19/2012 09:05	12/20/2012	Soil	SW7471	/ TAL					A2
L2612-04C	SB-12(10-11)	12/19/2012 09:05	12/20/2012	Soil	SW8260_LOW_S	/ SOM List				Y	VOA
L2612-04C	SB-12(10-11)	12/19/2012 09:05	12/20/2012	Soil	SW8260_MED_S	/ SOM List		Y		Y	VOA
L2612-05A	SB-13(7-8)	12/19/2012 09:35	12/20/2012	Soil	PMoist	/					A2
L2612-05A	SB-13(7-8)	12/19/2012 09:35	12/20/2012	Soil	SW8081_S	/					A2
L2612-05A	SB-13(7-8)	12/19/2012 09:35	12/20/2012	Soil	SW8082_S	/ +AR1262,1268				Y	A2
L2612-05A	SB-13(7-8)	12/19/2012 09:35	12/20/2012	Soil	SW8270_S	/ SOM List				Y	A2
L2612-05B	SB-13(7-8)	12/19/2012 09:35	12/20/2012	Soil	SW6010_S	/ TAL				Y	A2
L2612-05B	SB-13(7-8)	12/19/2012 09:35	12/20/2012	Soil	SW7471	/ TAL					A2

HF = Fraction logged in but all tests have been placed on hold

HT = Test logged in but has been placed on hold

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

WorkOrder: L2612

Client ID: MALCOLM_LATHAM
Project: S&S Dry Cleaners & Dyers
WO Name: S&S Dry Cleaners & Dyers
Location: ARCADIS_COHOES, 0266396.0000
Comments: N/A

Case:
SDG:
PO: 00266396.0000

HC Due: 01/07/13
Fax Due:
Fax Report: ☐

Report Level: ASP-B
Special Program:
EDD: EQUIIS_4_NYSDEC

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
L2612-05C	SB-13(7-8)	12/19/2012 09:35	12/20/2012	Soil	SW8260_LOW_S	/ SOM List				Y	VOA
L2612-05C	SB-13(7-8)	12/19/2012 09:35	12/20/2012	Soil	SW8260_MED_S	/ SOM List		Y		Y	VOA
L2612-06A	SB-13(5-6)	12/19/2012 09:38	12/20/2012	Soil	PMoist	/					VOA
L2612-06A	SB-13(5-6)	12/19/2012 09:38	12/20/2012	Soil	SW8260_LOW_S	/ SOM List				Y	VOA
L2612-06A	SB-13(5-6)	12/19/2012 09:38	12/20/2012	Soil	SW8260_MED_S	/ SOM List		Y		Y	VOA
L2612-07A	SB-13(8-9)	12/19/2012 09:40	12/20/2012	Soil	PMoist	/					VOA
L2612-07A	SB-13(8-9)	12/19/2012 09:40	12/20/2012	Soil	SW8260_LOW_S	/ SOM List				Y	VOA
L2612-07A	SB-13(8-9)	12/19/2012 09:40	12/20/2012	Soil	SW8260_MED_S	/ SOM List		Y		Y	VOA
L2612-08A	SB-13(9-10)	12/19/2012 09:42	12/20/2012	Soil	PMoist	/					VOA
L2612-08A	SB-13(9-10)	12/19/2012 09:42	12/20/2012	Soil	SW8260_LOW_S	/ SOM List				Y	VOA
L2612-08A	SB-13(9-10)	12/19/2012 09:42	12/20/2012	Soil	SW8260_MED_S	/ SOM List				Y	VOA
L2612-09A	SB-13(10-11)	12/19/2012 09:45	12/20/2012	Soil	PMoist	/					VOA
L2612-09A	SB-13(10-11)	12/19/2012 09:45	12/20/2012	Soil	SW8260_LOW_S	/ SOM List				Y	VOA
L2612-09A	SB-13(10-11)	12/19/2012 09:45	12/20/2012	Soil	SW8260_MED_S	/ SOM List				Y	VOA
L2612-10A	DUP-A	12/19/2012 09:50	12/20/2012	Soil	PMoist	/					VOA
L2612-10A	DUP-A	12/19/2012 09:50	12/20/2012	Soil	SW8260_LOW_S	/ SOM List				Y	VOA
L2612-10A	DUP-A	12/19/2012 09:50	12/20/2012	Soil	SW8260_MED_S	/ SOM List				Y	VOA
L2612-11A	SB-14(0-1)	12/19/2012 10:05	12/20/2012	Soil	PMoist	/					VOA
L2612-11A	SB-14(0-1)	12/19/2012 10:05	12/20/2012	Soil	SW8260_LOW_S	/ SOM List				Y	VOA
L2612-11A	SB-14(0-1)	12/19/2012 10:05	12/20/2012	Soil	SW8260_MED_S	/ SOM List		Y		Y	VOA
L2612-12A	SB-14(2-3)	12/19/2012 10:10	12/20/2012	Soil	PMoist	/					VOA
L2612-12A	SB-14(2-3)	12/19/2012 10:10	12/20/2012	Soil	SW8260_LOW_S	/ SOM List				Y	VOA

HF = Fraction logged in but all tests have been placed on hold

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Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

WorkOrder: L2612

Client ID: MALCOLM_LATHAM
Project: S&S Dry Cleaners & Dyers
WO Name: S&S Dry Cleaners & Dyers
Location: ARCADIS_COHOES, 0266396.0000
Comments: N/A

Case:
SDG:
PO: 00266396.0000

HC Due: 01/07/13
Fax Due:
Fax Report: ☐

Report Level: ASP-B
Special Program:
EDD: EQUIIS_4_NYSDEC

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
L2612-12A	SB-14(2-3)	12/19/2012 10:10	12/20/2012	Soil	SW8260_MED_S	/ SOM List		Y		Y	VOA
L2612-13A	SB-14(5-6)	12/19/2012 10:20	12/20/2012	Soil	PMoist	/					A2
L2612-13A	SB-14(5-6)	12/19/2012 10:20	12/20/2012	Soil	SW8081_S	/					A2
L2612-13A	SB-14(5-6)	12/19/2012 10:20	12/20/2012	Soil	SW8082_S	/ +AR1262,1268				Y	A2
L2612-13A	SB-14(5-6)	12/19/2012 10:20	12/20/2012	Soil	SW8270_S	/ SOM List				Y	A2
L2612-13B	SB-14(5-6)	12/19/2012 10:20	12/20/2012	Soil	SW6010_S	/ TAL				Y	A2
L2612-13B	SB-14(5-6)	12/19/2012 10:20	12/20/2012	Soil	SW7471	/ TAL					A2
L2612-13C	SB-14(5-6)	12/19/2012 10:20	12/20/2012	Soil	SW8260_LOW_S	/ SOM List				Y	VOA
L2612-13C	SB-14(5-6)	12/19/2012 10:20	12/20/2012	Soil	SW8260_MED_S	/ SOM List		Y		Y	VOA
L2612-14A	SB-14(7-8)	12/19/2012 10:23	12/20/2012	Soil	PMoist	/					VOA
L2612-14A	SB-14(7-8)	12/19/2012 10:23	12/20/2012	Soil	SW8260_LOW_S	/ SOM List				Y	VOA
L2612-14A	SB-14(7-8)	12/19/2012 10:23	12/20/2012	Soil	SW8260_MED_S	/ SOM List		Y		Y	VOA
L2612-15A	SB-14(8-9)	12/19/2012 10:25	12/20/2012	Soil	PMoist	/					VOA
L2612-15A	SB-14(8-9)	12/19/2012 10:25	12/20/2012	Soil	SW8260_LOW_S	/ SOM List				Y	VOA
L2612-15A	SB-14(8-9)	12/19/2012 10:25	12/20/2012	Soil	SW8260_MED_S	/ SOM List		Y		Y	VOA
L2612-16A	MW-4(121912)	12/19/2012 12:40	12/20/2012	Aqueous	SW8260_W	/ SOM list, 1ppb ICAL				Y	VOA
L2612-17A	TRIP BLANK	12/19/2012 00:00	12/20/2012	Aqueous	SW8260_W	/ SOM list, 1ppb ICAL				Y	VOA

HF = Fraction logged in but all tests have been placed on hold

HT = Test logged in but has been placed on hold

* Volatiles *

REPORT NARRATIVE

Spectrum Analytical, Inc. Featuring Hanibal Technology, RI Division.

Client : ARCADIS U.S., Inc.

Project: S&S Dry Cleaners & Dyers

Laboratory Workorder / SDG #: L2612

SW846 8260C, VOC by GC-MS

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code: SW846 8260C

IV. PREPARATION

Aqueous Samples were prepared following procedures in laboratory test code: SW5030
Soil Samples were prepared following procedures in laboratory test code: SW5035
Soil Samples were prepared following procedures in laboratory test code: SW5030

V. INSTRUMENTATION

The following instrumentation was used

Instrument Code: V1
Instrument Type: GCMS-VOA
Description: HP5890 II / HP5972
Manufacturer: Hewlett-Packard
Model: 5890 / 5972
GC Column used: 30 m X 0.25 mm ID [1.40 um thickness] DB-624 capillary column.

Instrument Code: V10
Instrument Type: GCMS-VOA
Description: HP7890A
Manufacturer: Agilent
Model: 7890A / 5975C
GC Column used: 30 m X 0.25 mm ID [1.40 um thickness] DB-624 capillary column.

Instrument Code: V5
Instrument Type: GCMS-VOA
Description: HP6890 / HP6890
Manufacturer: Hewlett-Packard
Model: 6890 / 6890
GC Column used: 30 m X 0.25 mm ID [1.40 um thickness] DB-624 capillary column.

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

Surrogate standard percent recoveries were within the QC limits.

D. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits with the following exceptions. Please note that most test procedures allow for several compounds outside of the QC limits for the LCS, although this may indicate a bias for this specific compound.

LCS-69954 in batch 69954, Percent Recovery is outside QC Limits, recovery is below criteria for 1,4-Dioxane at 61% with criteria of (70-130).

LCS-69978 in batch 69978, Percent Recovery is outside QC Limits, recovery is above criteria for Methyl tert-butyl ether at 127% with criteria of (75-126), trans-1,3-Dichloropropene at 125% with criteria of (65-125), recovery is below criteria for 1,1,2-Trichloro-1,2,2-trifluoroethane at 67% with criteria of (70-130), Cyclohexane at 69% with criteria of (70-130) and Methylcyclohexane at 68% with criteria of (70-130).

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

No client-requested MS/MSD analyses were included in this SDG.

E. Internal Standards:

Internal standard peak areas were within the QC limits.

F. Dilutions:

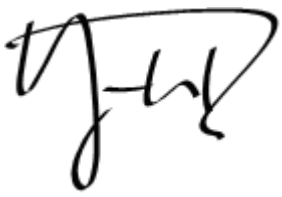
The following samples were analyzed at dilution:

SB-12(8-9) (L2612-02A) : Dilution Factor: 10

G. Samples:

No other unusual occurrences were noted during sample analysis.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.



Signed:_____ _____

Date:_____1/7/2013_____

Data Flag/Qualifiers:

U Not Detected. This compound was analyzed-for but not detected. For most analyses the reporting limit (lowest standard concentration) is the value listed. For Department of Defense programs, this is the Limit of Detection (LOD).

J This flag indicates an estimated value due to either
- the compound was detected below the reporting limit, or
- estimated concentration for Tentatively Identified Compound

B This flag indicates the compound was also detected in the associated Method Blank. The B flag has an alternative meaning for Inorganics analyses reported using CLP ILM-type metals forms, indicating a "trace" concentration below the reporting limit and equal to or above the detection limit.

D For Organics analysis, this flag indicates the compound concentration was obtained from a secondary dilution analysis

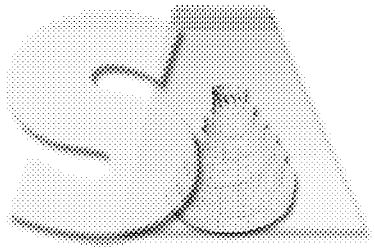
E This flag indicates the compound concentration exceeded the Calibration Range. The E flag has an alternative meaning for Inorganics analyses reported using CLP metals forms, indicating an estimated concentration due to the presence of interferences, as determined by the serial dilution analysis.

P This flag is used for pesticides/PCB/herbicide compound when there is a greater than 40% difference for detected concentration between the two GC columns used for primary and confirmation analyses. This difference typically indicates an interference, causing one value to be unusually high. The **lower** of the two values is generally reported on the Form 1, and both values reported on the Form 10.

A Used to flag semivolatile organic Tentatively Identified Compound library search results for compounds identified as aldol condensation byproducts.

N Used to flag results for volatile and semivolatile Organics analysis Tentatively Identified Compounds where an analyte has passed the identification criteria, and is considered to be positively identified. For Inorganics analysis the N flag indicates the matrix spike recovery falls outside of the control limit.

* For Inorganics analysis the * flag indicates Relative Percent Difference for duplicate analyses is outside of the control limit.



Sample ID Suffixes

DL Diluted analysis. The sample was diluted and reanalyzed. The DL may be followed by a digit if more than one diluted reanalysis is provided. The DL suffix is not attached to an analysis initially performed at dilution, only to reanalyses performed at dilution

RE Reanalysis. Appended to the client sample ID to indicate a reextraction and reanalysis or a reanalysis of the original sample extract.

RA Reanalysis. Appended to the laboratory sample ID indicates a reanalysis of the original sample extract.

RX Reextraction. Appended to the laboratory sample ID indicates a reextraction of the sample.

MS Matrix Spike.

MSD Matrix Spike Duplicate

DUP Duplicate analysis

SD Serial Dilution

PS Post-digestion or Post-distillation spike. For metals or inorganic analyses

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB-12(6-7)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2612 Mod. Ref No.: SDG No.: SL2612

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L2612-01A

Sample wt/vol: 4.00 (g/mL) G Lab File ID: V1M9979.D

Level: (TRACE/LOW/MED) LOW Date Received: 12/20/2012

% Moisture: not dec. 27 Date Analyzed: 12/26/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	8.6	U
74-87-3	Chloromethane	8.6	U
75-01-4	Vinyl chloride	8.6	U
74-83-9	Bromomethane	8.6	U
75-00-3	Chloroethane	8.6	U
75-69-4	Trichlorofluoromethane	8.6	U
75-35-4	1,1-Dichloroethene	8.6	U
67-64-1	Acetone	10	
75-15-0	Carbon disulfide	8.6	U
75-09-2	Methylene chloride	2.2	J
156-60-5	trans-1,2-Dichloroethene	8.6	U
1634-04-4	Methyl tert-butyl ether	8.6	U
75-34-3	1,1-Dichloroethane	8.6	U
78-93-3	2-Butanone	8.6	U
156-59-2	cis-1,2-Dichloroethene	13	
74-97-5	Bromochloromethane	8.6	U
67-66-3	Chloroform	2.0	BJ
71-55-6	1,1,1-Trichloroethane	8.6	U
56-23-5	Carbon tetrachloride	8.6	U
107-06-2	1,2-Dichloroethane	8.6	U
71-43-2	Benzene	8.6	U
79-01-6	Trichloroethene	6.0	J
78-87-5	1,2-Dichloropropane	8.6	U
75-27-4	Bromodichloromethane	8.6	U
10061-01-5	cis-1,3-Dichloropropene	8.6	U
108-10-1	4-Methyl-2-pentanone	8.6	U
108-88-3	Toluene	8.6	U
10061-02-6	trans-1,3-Dichloropropene	8.6	U
79-00-5	1,1,2-Trichloroethane	8.6	U
127-18-4	Tetrachloroethene	260	
591-78-6	2-Hexanone	8.6	U
124-48-1	Dibromochloromethane	8.6	U
106-93-4	1,2-Dibromoethane	8.6	U
108-90-7	Chlorobenzene	8.6	U
100-41-4	Ethylbenzene	8.6	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB-12(6-7)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2612 Mod. Ref No.: SDG No.: SL2612

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L2612-01A

Sample wt/vol: 4.00 (g/mL) G Lab File ID: V1M9979.D

Level: (TRACE/LOW/MED) LOW Date Received: 12/20/2012

% Moisture: not dec. 27 Date Analyzed: 12/26/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
179601-23-1	m,p-Xylene	8.6	U
95-47-6	o-Xylene	8.6	U
100-42-5	Styrene	8.6	U
75-25-2	Bromoform	8.6	U
98-82-8	Isopropylbenzene	8.6	U
79-34-5	1,1,2,2-Tetrachloroethane	8.6	U
541-73-1	1,3-Dichlorobenzene	8.6	U
106-46-7	1,4-Dichlorobenzene	8.6	U
95-50-1	1,2-Dichlorobenzene	8.6	U
96-12-8	1,2-Dibromo-3-chloropropane	8.6	U
120-82-1	1,2,4-Trichlorobenzene	8.6	U
87-61-6	1,2,3-Trichlorobenzene	8.6	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	8.6	U
123-91-1	1,4-Dioxane	170	U
110-82-7	Cyclohexane	8.6	U
79-20-9	Methyl acetate	8.6	U
108-87-2	Methylcyclohexane	8.6	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB-12(8-9)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2612 Mod. Ref No.: SDG No.: SL2612

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L2612-02A

Sample wt/vol: 4.60 (g/mL) G Lab File ID: V1M9980.D

Level: (TRACE/LOW/MED) LOW Date Received: 12/20/2012

% Moisture: not dec. 21 Date Analyzed: 12/26/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	6.9	U
74-87-3	Chloromethane	6.9	U
75-01-4	Vinyl chloride	21	
74-83-9	Bromomethane	6.9	U
75-00-3	Chloroethane	6.9	U
75-69-4	Trichlorofluoromethane	6.9	U
75-35-4	1,1-Dichloroethene	6.9	U
67-64-1	Acetone	3.9	J
75-15-0	Carbon disulfide	6.9	U
75-09-2	Methylene chloride	6.9	U
156-60-5	trans-1,2-Dichloroethene	5.9	J
1634-04-4	Methyl tert-butyl ether	6.9	U
75-34-3	1,1-Dichloroethane	6.9	U
78-93-3	2-Butanone	6.9	U
156-59-2	cis-1,2-Dichloroethene	600	E
74-97-5	Bromochloromethane	6.9	U
67-66-3	Chloroform	6.9	U
71-55-6	1,1,1-Trichloroethane	6.9	U
56-23-5	Carbon tetrachloride	6.9	U
107-06-2	1,2-Dichloroethane	6.9	U
71-43-2	Benzene	6.9	U
79-01-6	Trichloroethene	400	E
78-87-5	1,2-Dichloropropane	6.9	U
75-27-4	Bromodichloromethane	6.9	U
10061-01-5	cis-1,3-Dichloropropene	6.9	U
108-10-1	4-Methyl-2-pentanone	6.9	U
108-88-3	Toluene	6.9	U
10061-02-6	trans-1,3-Dichloropropene	6.9	U
79-00-5	1,1,2-Trichloroethane	6.9	U
127-18-4	Tetrachloroethene	2900	E
591-78-6	2-Hexanone	6.9	U
124-48-1	Dibromochloromethane	6.9	U
106-93-4	1,2-Dibromoethane	6.9	U
108-90-7	Chlorobenzene	6.9	U
100-41-4	Ethylbenzene	6.9	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB-12(8-9)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2612 Mod. Ref No.: SDG No.: SL2612

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L2612-02A

Sample wt/vol: 4.60 (g/mL) G Lab File ID: V1M9980.D

Level: (TRACE/LOW/MED) LOW Date Received: 12/20/2012

% Moisture: not dec. 21 Date Analyzed: 12/26/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
179601-23-1	m,p-Xylene	6.9	U
95-47-6	o-Xylene	6.9	U
100-42-5	Styrene	6.9	U
75-25-2	Bromoform	6.9	U
98-82-8	Isopropylbenzene	6.9	U
79-34-5	1,1,2,2-Tetrachloroethane	6.9	U
541-73-1	1,3-Dichlorobenzene	6.9	U
106-46-7	1,4-Dichlorobenzene	6.9	U
95-50-1	1,2-Dichlorobenzene	6.9	U
96-12-8	1,2-Dibromo-3-chloropropane	6.9	U
120-82-1	1,2,4-Trichlorobenzene	6.9	U
87-61-6	1,2,3-Trichlorobenzene	6.9	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	6.9	U
123-91-1	1,4-Dioxane	140	U
110-82-7	Cyclohexane	6.9	U
79-20-9	Methyl acetate	6.9	U
108-87-2	Methylcyclohexane	6.9	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB-12(8-9)ME

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2612 Mod. Ref No.: SDG No.: SL2612

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L2612-02A

Sample wt/vol: 4.00 (g/mL) G Lab File ID: V8B7477.D

Level: (TRACE/LOW/MED) MED Date Received: 12/20/2012

% Moisture: not dec. 21 Date Analyzed: 01/03/2013

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 10.0

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: 100.00 (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	4600	U
74-87-3	Chloromethane	4600	U
75-01-4	Vinyl chloride	4600	U
74-83-9	Bromomethane	4600	U
75-00-3	Chloroethane	4600	U
75-69-4	Trichlorofluoromethane	4600	U
75-35-4	1,1-Dichloroethene	4600	U
67-64-1	Acetone	4600	U
75-15-0	Carbon disulfide	4600	U
75-09-2	Methylene chloride	4600	U
156-60-5	trans-1,2-Dichloroethene	4600	U
1634-04-4	Methyl tert-butyl ether	4600	U
75-34-3	1,1-Dichloroethane	4600	U
78-93-3	2-Butanone	4600	U
156-59-2	cis-1,2-Dichloroethene	5700	
74-97-5	Bromochloromethane	4600	U
67-66-3	Chloroform	4600	U
71-55-6	1,1,1-Trichloroethane	4600	U
56-23-5	Carbon tetrachloride	4600	U
107-06-2	1,2-Dichloroethane	4600	U
71-43-2	Benzene	4600	U
79-01-6	Trichloroethene	6000	
78-87-5	1,2-Dichloropropane	4600	U
75-27-4	Bromodichloromethane	4600	U
10061-01-5	cis-1,3-Dichloropropene	4600	U
108-10-1	4-Methyl-2-pentanone	4600	U
108-88-3	Toluene	4600	U
10061-02-6	trans-1,3-Dichloropropene	4600	U
79-00-5	1,1,2-Trichloroethane	4600	U
127-18-4	Tetrachloroethene	98000	
591-78-6	2-Hexanone	4600	U
124-48-1	Dibromochloromethane	4600	U
106-93-4	1,2-Dibromoethane	4600	U
108-90-7	Chlorobenzene	4600	U
100-41-4	Ethylbenzene	4600	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB-12(8-9)ME

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2612 Mod. Ref No.: SDG No.: SL2612

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L2612-02A

Sample wt/vol: 4.00 (g/mL) G Lab File ID: V8B7477.D

Level: (TRACE/LOW/MED) MED Date Received: 12/20/2012

% Moisture: not dec. 21 Date Analyzed: 01/03/2013

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 10.0

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: 100.00 (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
179601-23-1	m,p-Xylene	4600	U
95-47-6	o-Xylene	4600	U
100-42-5	Styrene	4600	U
75-25-2	Bromoform	4600	U
98-82-8	Isopropylbenzene	4600	U
79-34-5	1,1,2,2-Tetrachloroethane	4600	U
541-73-1	1,3-Dichlorobenzene	4600	U
106-46-7	1,4-Dichlorobenzene	4600	U
95-50-1	1,2-Dichlorobenzene	4600	U
96-12-8	1,2-Dibromo-3-chloropropane	4600	U
120-82-1	1,2,4-Trichlorobenzene	4600	U
87-61-6	1,2,3-Trichlorobenzene	4600	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	4600	U
123-91-1	1,4-Dioxane	92000	U
110-82-7	Cyclohexane	4600	U
79-20-9	Methyl acetate	4600	U
108-87-2	Methylcyclohexane	4600	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB-12(9-10)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2612 Mod. Ref No.: SDG No.: SL2612

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L2612-03A

Sample wt/vol: 4.90 (g/mL) G Lab File ID: V5O1089.D

Level: (TRACE/LOW/MED) LOW Date Received: 12/20/2012

% Moisture: not dec. 22 Date Analyzed: 12/27/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	6.5	U
74-87-3	Chloromethane	6.5	U
75-01-4	Vinyl chloride	6.5	U
74-83-9	Bromomethane	6.5	U
75-00-3	Chloroethane	6.5	U
75-69-4	Trichlorofluoromethane	6.5	U
75-35-4	1,1-Dichloroethene	6.5	U
67-64-1	Acetone	6.5	U
75-15-0	Carbon disulfide	6.5	U
75-09-2	Methylene chloride	6.5	U
156-60-5	trans-1,2-Dichloroethene	6.5	U
1634-04-4	Methyl tert-butyl ether	6.5	U
75-34-3	1,1-Dichloroethane	6.5	U
78-93-3	2-Butanone	6.5	U
156-59-2	cis-1,2-Dichloroethene	6.5	U
74-97-5	Bromochloromethane	6.5	U
67-66-3	Chloroform	6.5	U
71-55-6	1,1,1-Trichloroethane	6.5	U
56-23-5	Carbon tetrachloride	6.5	U
107-06-2	1,2-Dichloroethane	6.5	U
71-43-2	Benzene	6.5	U
79-01-6	Trichloroethene	1.6	J
78-87-5	1,2-Dichloropropane	6.5	U
75-27-4	Bromodichloromethane	6.5	U
10061-01-5	cis-1,3-Dichloropropene	6.5	U
108-10-1	4-Methyl-2-pentanone	6.5	U
108-88-3	Toluene	6.5	U
10061-02-6	trans-1,3-Dichloropropene	6.5	U
79-00-5	1,1,2-Trichloroethane	6.5	U
127-18-4	Tetrachloroethene	48	
591-78-6	2-Hexanone	6.5	U
124-48-1	Dibromochloromethane	6.5	U
106-93-4	1,2-Dibromoethane	6.5	U
108-90-7	Chlorobenzene	6.5	U
100-41-4	Ethylbenzene	6.5	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB-12(9-10)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2612 Mod. Ref No.: SDG No.: SL2612

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L2612-03A

Sample wt/vol: 4.90 (g/mL) G Lab File ID: V5O1089.D

Level: (TRACE/LOW/MED) LOW Date Received: 12/20/2012

% Moisture: not dec. 22 Date Analyzed: 12/27/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
179601-23-1	m,p-Xylene	6.5	U
95-47-6	o-Xylene	6.5	U
100-42-5	Styrene	6.5	U
75-25-2	Bromoform	6.5	U
98-82-8	Isopropylbenzene	6.5	U
79-34-5	1,1,2,2-Tetrachloroethane	6.5	U
541-73-1	1,3-Dichlorobenzene	6.5	U
106-46-7	1,4-Dichlorobenzene	6.5	U
95-50-1	1,2-Dichlorobenzene	6.5	U
96-12-8	1,2-Dibromo-3-chloropropane	6.5	U
120-82-1	1,2,4-Trichlorobenzene	6.5	U
87-61-6	1,2,3-Trichlorobenzene	6.5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	6.5	U
123-91-1	1,4-Dioxane	130	U
110-82-7	Cyclohexane	6.5	U
79-20-9	Methyl acetate	6.5	U
108-87-2	Methylcyclohexane	6.5	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB-12(10-11)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2612 Mod. Ref No.: SDG No.: SL2612

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L2612-04C

Sample wt/vol: 4.60 (g/mL) G Lab File ID: V1M9982.D

Level: (TRACE/LOW/MED) LOW Date Received: 12/20/2012

% Moisture: not dec. 20 Date Analyzed: 12/26/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	6.8	U
74-87-3	Chloromethane	6.8	U
75-01-4	Vinyl chloride	6.8	U
74-83-9	Bromomethane	6.8	U
75-00-3	Chloroethane	6.8	U
75-69-4	Trichlorofluoromethane	6.8	U
75-35-4	1,1-Dichloroethene	6.8	U
67-64-1	Acetone	5.4	J
75-15-0	Carbon disulfide	6.8	U
75-09-2	Methylene chloride	6.8	U
156-60-5	trans-1,2-Dichloroethene	6.8	U
1634-04-4	Methyl tert-butyl ether	6.8	U
75-34-3	1,1-Dichloroethane	6.8	U
78-93-3	2-Butanone	6.8	U
156-59-2	cis-1,2-Dichloroethene	6.8	U
74-97-5	Bromochloromethane	6.8	U
67-66-3	Chloroform	6.8	U
71-55-6	1,1,1-Trichloroethane	6.8	U
56-23-5	Carbon tetrachloride	6.8	U
107-06-2	1,2-Dichloroethane	6.8	U
71-43-2	Benzene	6.8	U
79-01-6	Trichloroethene	6.8	U
78-87-5	1,2-Dichloropropane	6.8	U
75-27-4	Bromodichloromethane	6.8	U
10061-01-5	cis-1,3-Dichloropropene	6.8	U
108-10-1	4-Methyl-2-pentanone	6.8	U
108-88-3	Toluene	6.8	U
10061-02-6	trans-1,3-Dichloropropene	6.8	U
79-00-5	1,1,2-Trichloroethane	6.8	U
127-18-4	Tetrachloroethene	1.7	J
591-78-6	2-Hexanone	6.8	U
124-48-1	Dibromochloromethane	6.8	U
106-93-4	1,2-Dibromoethane	6.8	U
108-90-7	Chlorobenzene	6.8	U
100-41-4	Ethylbenzene	6.8	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB-12(10-11)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2612 Mod. Ref No.: SDG No.: SL2612

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L2612-04C

Sample wt/vol: 4.60 (g/mL) G Lab File ID: V1M9982.D

Level: (TRACE/LOW/MED) LOW Date Received: 12/20/2012

% Moisture: not dec. 20 Date Analyzed: 12/26/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
179601-23-1	m,p-Xylene	6.8	U
95-47-6	o-Xylene	6.8	U
100-42-5	Styrene	6.8	U
75-25-2	Bromoform	6.8	U
98-82-8	Isopropylbenzene	6.8	U
79-34-5	1,1,2,2-Tetrachloroethane	6.8	U
541-73-1	1,3-Dichlorobenzene	6.8	U
106-46-7	1,4-Dichlorobenzene	6.8	U
95-50-1	1,2-Dichlorobenzene	6.8	U
96-12-8	1,2-Dibromo-3-chloropropane	6.8	U
120-82-1	1,2,4-Trichlorobenzene	6.8	U
87-61-6	1,2,3-Trichlorobenzene	6.8	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	6.8	U
123-91-1	1,4-Dioxane	140	U
110-82-7	Cyclohexane	6.8	U
79-20-9	Methyl acetate	6.8	U
108-87-2	Methylcyclohexane	6.8	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB-13(7-8)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2612 Mod. Ref No.: SDG No.: SL2612

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L2612-05C

Sample wt/vol: 4.10 (g/mL) G Lab File ID: V1M9983.D

Level: (TRACE/LOW/MED) LOW Date Received: 12/20/2012

% Moisture: not dec. 23 Date Analyzed: 12/26/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	8.0	U
74-87-3	Chloromethane	8.0	U
75-01-4	Vinyl chloride	8.0	U
74-83-9	Bromomethane	8.0	U
75-00-3	Chloroethane	8.0	U
75-69-4	Trichlorofluoromethane	8.0	U
75-35-4	1,1-Dichloroethene	8.0	U
67-64-1	Acetone	47	
75-15-0	Carbon disulfide	8.0	U
75-09-2	Methylene chloride	8.0	U
156-60-5	trans-1,2-Dichloroethene	8.0	U
1634-04-4	Methyl tert-butyl ether	8.0	U
75-34-3	1,1-Dichloroethane	8.0	U
78-93-3	2-Butanone	8.0	U
156-59-2	cis-1,2-Dichloroethene	29	
74-97-5	Bromochloromethane	8.0	U
67-66-3	Chloroform	1.8	BJ
71-55-6	1,1,1-Trichloroethane	8.0	U
56-23-5	Carbon tetrachloride	8.0	U
107-06-2	1,2-Dichloroethane	8.0	U
71-43-2	Benzene	8.0	U
79-01-6	Trichloroethene	4.7	J
78-87-5	1,2-Dichloropropane	8.0	U
75-27-4	Bromodichloromethane	8.0	U
10061-01-5	cis-1,3-Dichloropropene	8.0	U
108-10-1	4-Methyl-2-pentanone	8.0	U
108-88-3	Toluene	8.0	U
10061-02-6	trans-1,3-Dichloropropene	8.0	U
79-00-5	1,1,2-Trichloroethane	8.0	U
127-18-4	Tetrachloroethene	6.8	J
591-78-6	2-Hexanone	8.0	U
124-48-1	Dibromochloromethane	8.0	U
106-93-4	1,2-Dibromoethane	8.0	U
108-90-7	Chlorobenzene	8.0	U
100-41-4	Ethylbenzene	8.0	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB-13(7-8)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2612 Mod. Ref No.: SDG No.: SL2612

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L2612-05C

Sample wt/vol: 4.10 (g/mL) G Lab File ID: V1M9983.D

Level: (TRACE/LOW/MED) LOW Date Received: 12/20/2012

% Moisture: not dec. 23 Date Analyzed: 12/26/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
179601-23-1	m,p-Xylene	8.0	U
95-47-6	o-Xylene	8.0	U
100-42-5	Styrene	8.0	U
75-25-2	Bromoform	8.0	U
98-82-8	Isopropylbenzene	8.0	U
79-34-5	1,1,2,2-Tetrachloroethane	8.0	U
541-73-1	1,3-Dichlorobenzene	8.0	U
106-46-7	1,4-Dichlorobenzene	8.0	U
95-50-1	1,2-Dichlorobenzene	8.0	U
96-12-8	1,2-Dibromo-3-chloropropane	8.0	U
120-82-1	1,2,4-Trichlorobenzene	8.0	U
87-61-6	1,2,3-Trichlorobenzene	8.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	8.0	U
123-91-1	1,4-Dioxane	160	U
110-82-7	Cyclohexane	8.0	U
79-20-9	Methyl acetate	8.0	U
108-87-2	Methylcyclohexane	8.0	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB-13(5-6)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2612 Mod. Ref No.: SDG No.: SL2612

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L2612-06A

Sample wt/vol: 4.20 (g/mL) G Lab File ID: V1M9984.D

Level: (TRACE/LOW/MED) LOW Date Received: 12/20/2012

% Moisture: not dec. 24 Date Analyzed: 12/26/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	7.8	U
74-87-3	Chloromethane	7.8	U
75-01-4	Vinyl chloride	7.8	U
74-83-9	Bromomethane	7.8	U
75-00-3	Chloroethane	7.8	U
75-69-4	Trichlorofluoromethane	7.8	U
75-35-4	1,1-Dichloroethene	7.8	U
67-64-1	Acetone	64	
75-15-0	Carbon disulfide	7.8	U
75-09-2	Methylene chloride	7.8	U
156-60-5	trans-1,2-Dichloroethene	7.8	U
1634-04-4	Methyl tert-butyl ether	7.8	U
75-34-3	1,1-Dichloroethane	7.8	U
78-93-3	2-Butanone	7.8	U
156-59-2	cis-1,2-Dichloroethene	7.8	U
74-97-5	Bromochloromethane	7.8	U
67-66-3	Chloroform	2.0	BJ
71-55-6	1,1,1-Trichloroethane	7.8	U
56-23-5	Carbon tetrachloride	7.8	U
107-06-2	1,2-Dichloroethane	7.8	U
71-43-2	Benzene	7.8	U
79-01-6	Trichloroethene	7.8	U
78-87-5	1,2-Dichloropropane	7.8	U
75-27-4	Bromodichloromethane	7.8	U
10061-01-5	cis-1,3-Dichloropropene	7.8	U
108-10-1	4-Methyl-2-pentanone	7.8	U
108-88-3	Toluene	7.8	U
10061-02-6	trans-1,3-Dichloropropene	7.8	U
79-00-5	1,1,2-Trichloroethane	7.8	U
127-18-4	Tetrachloroethene	29	
591-78-6	2-Hexanone	7.8	U
124-48-1	Dibromochloromethane	7.8	U
106-93-4	1,2-Dibromoethane	7.8	U
108-90-7	Chlorobenzene	7.8	U
100-41-4	Ethylbenzene	7.8	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB-13(5-6)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2612 Mod. Ref No.: SDG No.: SL2612

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L2612-06A

Sample wt/vol: 4.20 (g/mL) G Lab File ID: V1M9984.D

Level: (TRACE/LOW/MED) LOW Date Received: 12/20/2012

% Moisture: not dec. 24 Date Analyzed: 12/26/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
179601-23-1	m,p-Xylene	2.8	J
95-47-6	o-Xylene	7.8	U
100-42-5	Styrene	7.8	U
75-25-2	Bromoform	7.8	U
98-82-8	Isopropylbenzene	7.8	U
79-34-5	1,1,2,2-Tetrachloroethane	7.8	U
541-73-1	1,3-Dichlorobenzene	7.8	U
106-46-7	1,4-Dichlorobenzene	7.8	U
95-50-1	1,2-Dichlorobenzene	7.8	U
96-12-8	1,2-Dibromo-3-chloropropane	7.8	U
120-82-1	1,2,4-Trichlorobenzene	7.8	U
87-61-6	1,2,3-Trichlorobenzene	7.8	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	7.8	U
123-91-1	1,4-Dioxane	160	U
110-82-7	Cyclohexane	7.8	U
79-20-9	Methyl acetate	7.8	U
108-87-2	Methylcyclohexane	7.8	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB-13(8-9)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2612 Mod. Ref No.: SDG No.: SL2612

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L2612-07A

Sample wt/vol: 5.20 (g/mL) G Lab File ID: V1M9985.D

Level: (TRACE/LOW/MED) LOW Date Received: 12/20/2012

% Moisture: not dec. 22 Date Analyzed: 12/26/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	6.1	U
74-87-3	Chloromethane	6.1	U
75-01-4	Vinyl chloride	5.4	J
74-83-9	Bromomethane	6.1	U
75-00-3	Chloroethane	6.1	U
75-69-4	Trichlorofluoromethane	6.1	U
75-35-4	1,1-Dichloroethene	6.1	U
67-64-1	Acetone	17	
75-15-0	Carbon disulfide	1.4	J
75-09-2	Methylene chloride	1.6	J
156-60-5	trans-1,2-Dichloroethene	3.7	J
1634-04-4	Methyl tert-butyl ether	6.1	U
75-34-3	1,1-Dichloroethane	6.1	U
78-93-3	2-Butanone	6.1	U
156-59-2	cis-1,2-Dichloroethene	150	
74-97-5	Bromochloromethane	6.1	U
67-66-3	Chloroform	1.4	BJ
71-55-6	1,1,1-Trichloroethane	6.1	U
56-23-5	Carbon tetrachloride	6.1	U
107-06-2	1,2-Dichloroethane	6.1	U
71-43-2	Benzene	6.1	U
79-01-6	Trichloroethene	2.1	J
78-87-5	1,2-Dichloropropane	6.1	U
75-27-4	Bromodichloromethane	6.1	U
10061-01-5	cis-1,3-Dichloropropene	6.1	U
108-10-1	4-Methyl-2-pentanone	6.1	U
108-88-3	Toluene	6.1	U
10061-02-6	trans-1,3-Dichloropropene	6.1	U
79-00-5	1,1,2-Trichloroethane	6.1	U
127-18-4	Tetrachloroethene	6.1	U
591-78-6	2-Hexanone	6.1	U
124-48-1	Dibromochloromethane	6.1	U
106-93-4	1,2-Dibromoethane	6.1	U
108-90-7	Chlorobenzene	6.1	U
100-41-4	Ethylbenzene	6.1	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB-13(8-9)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2612 Mod. Ref No.: SDG No.: SL2612

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L2612-07A

Sample wt/vol: 5.20 (g/mL) G Lab File ID: V1M9985.D

Level: (TRACE/LOW/MED) LOW Date Received: 12/20/2012

% Moisture: not dec. 22 Date Analyzed: 12/26/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
179601-23-1	m,p-Xylene	6.1	U
95-47-6	o-Xylene	6.1	U
100-42-5	Styrene	6.1	U
75-25-2	Bromoform	6.1	U
98-82-8	Isopropylbenzene	6.1	U
79-34-5	1,1,2,2-Tetrachloroethane	6.1	U
541-73-1	1,3-Dichlorobenzene	6.1	U
106-46-7	1,4-Dichlorobenzene	6.1	U
95-50-1	1,2-Dichlorobenzene	6.1	U
96-12-8	1,2-Dibromo-3-chloropropane	6.1	U
120-82-1	1,2,4-Trichlorobenzene	6.1	U
87-61-6	1,2,3-Trichlorobenzene	6.1	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	6.1	U
123-91-1	1,4-Dioxane	120	U
110-82-7	Cyclohexane	6.1	U
79-20-9	Methyl acetate	6.1	U
108-87-2	Methylcyclohexane	6.1	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB-13(9-10)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2612 Mod. Ref No.: SDG No.: SL2612

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L2612-08A

Sample wt/vol: 5.50 (g/mL) G Lab File ID: V1M9986.D

Level: (TRACE/LOW/MED) LOW Date Received: 12/20/2012

% Moisture: not dec. 30 Date Analyzed: 12/26/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	6.5	U
74-87-3	Chloromethane	6.5	U
75-01-4	Vinyl chloride	6.5	U
74-83-9	Bromomethane	6.5	U
75-00-3	Chloroethane	6.5	U
75-69-4	Trichlorofluoromethane	6.5	U
75-35-4	1,1-Dichloroethene	6.5	U
67-64-1	Acetone	7.7	
75-15-0	Carbon disulfide	6.5	U
75-09-2	Methylene chloride	1.8	J
156-60-5	trans-1,2-Dichloroethene	6.5	U
1634-04-4	Methyl tert-butyl ether	6.5	U
75-34-3	1,1-Dichloroethane	6.5	U
78-93-3	2-Butanone	6.5	U
156-59-2	cis-1,2-Dichloroethene	8.7	
74-97-5	Bromochloromethane	6.5	U
67-66-3	Chloroform	1.5	BJ
71-55-6	1,1,1-Trichloroethane	6.5	U
56-23-5	Carbon tetrachloride	6.5	U
107-06-2	1,2-Dichloroethane	6.5	U
71-43-2	Benzene	6.5	U
79-01-6	Trichloroethene	46	
78-87-5	1,2-Dichloropropane	6.5	U
75-27-4	Bromodichloromethane	6.5	U
10061-01-5	cis-1,3-Dichloropropene	6.5	U
108-10-1	4-Methyl-2-pentanone	6.5	U
108-88-3	Toluene	6.5	U
10061-02-6	trans-1,3-Dichloropropene	6.5	U
79-00-5	1,1,2-Trichloroethane	6.5	U
127-18-4	Tetrachloroethene	1300	E
591-78-6	2-Hexanone	6.5	U
124-48-1	Dibromochloromethane	6.5	U
106-93-4	1,2-Dibromoethane	6.5	U
108-90-7	Chlorobenzene	6.5	U
100-41-4	Ethylbenzene	6.5	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB-13(9-10)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2612 Mod. Ref No.: SDG No.: SL2612

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L2612-08A

Sample wt/vol: 5.50 (g/mL) G Lab File ID: V1M9986.D

Level: (TRACE/LOW/MED) LOW Date Received: 12/20/2012

% Moisture: not dec. 30 Date Analyzed: 12/26/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
179601-23-1	m,p-Xylene	6.5	U
95-47-6	o-Xylene	6.5	U
100-42-5	Styrene	6.5	U
75-25-2	Bromoform	6.5	U
98-82-8	Isopropylbenzene	6.5	U
79-34-5	1,1,2,2-Tetrachloroethane	6.5	U
541-73-1	1,3-Dichlorobenzene	6.5	U
106-46-7	1,4-Dichlorobenzene	6.5	U
95-50-1	1,2-Dichlorobenzene	6.5	U
96-12-8	1,2-Dibromo-3-chloropropane	6.5	U
120-82-1	1,2,4-Trichlorobenzene	6.5	U
87-61-6	1,2,3-Trichlorobenzene	6.5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	6.5	U
123-91-1	1,4-Dioxane	130	U
110-82-7	Cyclohexane	6.5	U
79-20-9	Methyl acetate	6.5	U
108-87-2	Methylcyclohexane	6.5	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB-13(9-10)ME

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2612 Mod. Ref No.: SDG No.: SL2612

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L2612-08A

Sample wt/vol: 5.10 (g/mL) G Lab File ID: V8B7367.D

Level: (TRACE/LOW/MED) MED Date Received: 12/20/2012

% Moisture: not dec. 30 Date Analyzed: 12/28/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: 100.00 (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	460	U
74-87-3	Chloromethane	460	U
75-01-4	Vinyl chloride	460	U
74-83-9	Bromomethane	460	U
75-00-3	Chloroethane	460	U
75-69-4	Trichlorofluoromethane	460	U
75-35-4	1,1-Dichloroethene	460	U
67-64-1	Acetone	460	U
75-15-0	Carbon disulfide	460	U
75-09-2	Methylene chloride	460	U
156-60-5	trans-1,2-Dichloroethene	460	U
1634-04-4	Methyl tert-butyl ether	460	U
75-34-3	1,1-Dichloroethane	460	U
78-93-3	2-Butanone	460	U
156-59-2	cis-1,2-Dichloroethene	460	U
74-97-5	Bromochloromethane	460	U
67-66-3	Chloroform	460	U
71-55-6	1,1,1-Trichloroethane	460	U
56-23-5	Carbon tetrachloride	460	U
107-06-2	1,2-Dichloroethane	460	U
71-43-2	Benzene	460	U
79-01-6	Trichloroethene	350	J
78-87-5	1,2-Dichloropropane	460	U
75-27-4	Bromodichloromethane	460	U
10061-01-5	cis-1,3-Dichloropropene	460	U
108-10-1	4-Methyl-2-pentanone	460	U
108-88-3	Toluene	460	U
10061-02-6	trans-1,3-Dichloropropene	460	U
79-00-5	1,1,2-Trichloroethane	460	U
127-18-4	Tetrachloroethene	2500	
591-78-6	2-Hexanone	460	U
124-48-1	Dibromochloromethane	460	U
106-93-4	1,2-Dibromoethane	460	U
108-90-7	Chlorobenzene	460	U
100-41-4	Ethylbenzene	460	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB-13(9-10)ME

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2612 Mod. Ref No.: SDG No.: SL2612

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L2612-08A

Sample wt/vol: 5.10 (g/mL) G Lab File ID: V8B7367.D

Level: (TRACE/LOW/MED) MED Date Received: 12/20/2012

% Moisture: not dec. 30 Date Analyzed: 12/28/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: 100.00 (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
179601-23-1	m,p-Xylene	460	U
95-47-6	o-Xylene	460	U
100-42-5	Styrene	460	U
75-25-2	Bromoform	460	U
98-82-8	Isopropylbenzene	460	U
79-34-5	1,1,2,2-Tetrachloroethane	460	U
541-73-1	1,3-Dichlorobenzene	460	U
106-46-7	1,4-Dichlorobenzene	460	U
95-50-1	1,2-Dichlorobenzene	460	U
96-12-8	1,2-Dibromo-3-chloropropane	460	U
120-82-1	1,2,4-Trichlorobenzene	460	U
87-61-6	1,2,3-Trichlorobenzene	460	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	460	U
123-91-1	1,4-Dioxane	9100	U
110-82-7	Cyclohexane	460	U
79-20-9	Methyl acetate	460	U
108-87-2	Methylcyclohexane	460	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB-13(10-11)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2612 Mod. Ref No.: SDG No.: SL2612

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L2612-09A

Sample wt/vol: 4.20 (g/mL) G Lab File ID: V1M9987.D

Level: (TRACE/LOW/MED) LOW Date Received: 12/20/2012

% Moisture: not dec. 21 Date Analyzed: 12/26/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	7.5	U
74-87-3	Chloromethane	7.5	U
75-01-4	Vinyl chloride	7.5	U
74-83-9	Bromomethane	7.5	U
75-00-3	Chloroethane	7.5	U
75-69-4	Trichlorofluoromethane	7.5	U
75-35-4	1,1-Dichloroethene	7.5	U
67-64-1	Acetone	7.6	
75-15-0	Carbon disulfide	7.5	U
75-09-2	Methylene chloride	7.5	U
156-60-5	trans-1,2-Dichloroethene	7.5	U
1634-04-4	Methyl tert-butyl ether	7.5	U
75-34-3	1,1-Dichloroethane	7.5	U
78-93-3	2-Butanone	7.5	U
156-59-2	cis-1,2-Dichloroethene	3.9	J
74-97-5	Bromochloromethane	7.5	U
67-66-3	Chloroform	1.8	BJ
71-55-6	1,1,1-Trichloroethane	7.5	U
56-23-5	Carbon tetrachloride	7.5	U
107-06-2	1,2-Dichloroethane	7.5	U
71-43-2	Benzene	7.5	U
79-01-6	Trichloroethene	73	
78-87-5	1,2-Dichloropropane	7.5	U
75-27-4	Bromodichloromethane	7.5	U
10061-01-5	cis-1,3-Dichloropropene	7.5	U
108-10-1	4-Methyl-2-pentanone	7.5	U
108-88-3	Toluene	7.5	U
10061-02-6	trans-1,3-Dichloropropene	7.5	U
79-00-5	1,1,2-Trichloroethane	7.5	U
127-18-4	Tetrachloroethene	2800	E
591-78-6	2-Hexanone	7.5	U
124-48-1	Dibromochloromethane	7.5	U
106-93-4	1,2-Dibromoethane	7.5	U
108-90-7	Chlorobenzene	7.5	U
100-41-4	Ethylbenzene	7.5	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB-13(10-11)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2612 Mod. Ref No.: SDG No.: SL2612

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L2612-09A

Sample wt/vol: 4.20 (g/mL) G Lab File ID: V1M9987.D

Level: (TRACE/LOW/MED) LOW Date Received: 12/20/2012

% Moisture: not dec. 21 Date Analyzed: 12/26/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
179601-23-1	m,p-Xylene	7.5	U
95-47-6	o-Xylene	7.5	U
100-42-5	Styrene	7.5	U
75-25-2	Bromoform	7.5	U
98-82-8	Isopropylbenzene	7.5	U
79-34-5	1,1,2,2-Tetrachloroethane	7.5	U
541-73-1	1,3-Dichlorobenzene	7.5	U
106-46-7	1,4-Dichlorobenzene	7.5	U
95-50-1	1,2-Dichlorobenzene	7.5	U
96-12-8	1,2-Dibromo-3-chloropropane	7.5	U
120-82-1	1,2,4-Trichlorobenzene	7.5	U
87-61-6	1,2,3-Trichlorobenzene	7.5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	7.5	U
123-91-1	1,4-Dioxane	150	U
110-82-7	Cyclohexane	7.5	U
79-20-9	Methyl acetate	7.5	U
108-87-2	Methylcyclohexane	7.5	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB-13(10-11)ME

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2612 Mod. Ref No.: SDG No.: SL2612

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L2612-09A

Sample wt/vol: 4.30 (g/mL) G Lab File ID: V8B7368.D

Level: (TRACE/LOW/MED) MED Date Received: 12/20/2012

% Moisture: not dec. 21 Date Analyzed: 12/28/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: 100.00 (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	430	U
74-87-3	Chloromethane	430	U
75-01-4	Vinyl chloride	430	U
74-83-9	Bromomethane	430	U
75-00-3	Chloroethane	430	U
75-69-4	Trichlorofluoromethane	430	U
75-35-4	1,1-Dichloroethene	430	U
67-64-1	Acetone	430	U
75-15-0	Carbon disulfide	430	U
75-09-2	Methylene chloride	430	U
156-60-5	trans-1,2-Dichloroethene	430	U
1634-04-4	Methyl tert-butyl ether	430	U
75-34-3	1,1-Dichloroethane	430	U
78-93-3	2-Butanone	430	U
156-59-2	cis-1,2-Dichloroethene	430	U
74-97-5	Bromochloromethane	430	U
67-66-3	Chloroform	430	U
71-55-6	1,1,1-Trichloroethane	430	U
56-23-5	Carbon tetrachloride	430	U
107-06-2	1,2-Dichloroethane	430	U
71-43-2	Benzene	430	U
79-01-6	Trichloroethene	280	J
78-87-5	1,2-Dichloropropane	430	U
75-27-4	Bromodichloromethane	430	U
10061-01-5	cis-1,3-Dichloropropene	430	U
108-10-1	4-Methyl-2-pentanone	430	U
108-88-3	Toluene	430	U
10061-02-6	trans-1,3-Dichloropropene	430	U
79-00-5	1,1,2-Trichloroethane	430	U
127-18-4	Tetrachloroethene	2800	
591-78-6	2-Hexanone	430	U
124-48-1	Dibromochloromethane	430	U
106-93-4	1,2-Dibromoethane	430	U
108-90-7	Chlorobenzene	430	U
100-41-4	Ethylbenzene	430	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB-13(10-11)ME

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2612 Mod. Ref No.: SDG No.: SL2612

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L2612-09A

Sample wt/vol: 4.30 (g/mL) G Lab File ID: V8B7368.D

Level: (TRACE/LOW/MED) MED Date Received: 12/20/2012

% Moisture: not dec. 21 Date Analyzed: 12/28/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: 100.00 (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
179601-23-1	m,p-Xylene	430	U
95-47-6	o-Xylene	430	U
100-42-5	Styrene	430	U
75-25-2	Bromoform	430	U
98-82-8	Isopropylbenzene	430	U
79-34-5	1,1,2,2-Tetrachloroethane	430	U
541-73-1	1,3-Dichlorobenzene	430	U
106-46-7	1,4-Dichlorobenzene	430	U
95-50-1	1,2-Dichlorobenzene	430	U
96-12-8	1,2-Dibromo-3-chloropropane	430	U
120-82-1	1,2,4-Trichlorobenzene	430	U
87-61-6	1,2,3-Trichlorobenzene	430	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	430	U
123-91-1	1,4-Dioxane	8700	U
110-82-7	Cyclohexane	430	U
79-20-9	Methyl acetate	430	U
108-87-2	Methylcyclohexane	430	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DUP-A

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2612 Mod. Ref No.: SDG No.: SL2612

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L2612-10A

Sample wt/vol: 4.20 (g/mL) G Lab File ID: V1M9988.D

Level: (TRACE/LOW/MED) LOW Date Received: 12/20/2012

% Moisture: not dec. 25 Date Analyzed: 12/26/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	7.9	U
74-87-3	Chloromethane	7.9	U
75-01-4	Vinyl chloride	7.9	U
74-83-9	Bromomethane	7.9	U
75-00-3	Chloroethane	7.9	U
75-69-4	Trichlorofluoromethane	7.9	U
75-35-4	1,1-Dichloroethene	7.9	U
67-64-1	Acetone	8.6	
75-15-0	Carbon disulfide	7.9	U
75-09-2	Methylene chloride	7.9	U
156-60-5	trans-1,2-Dichloroethene	7.9	U
1634-04-4	Methyl tert-butyl ether	7.9	U
75-34-3	1,1-Dichloroethane	7.9	U
78-93-3	2-Butanone	7.9	U
156-59-2	cis-1,2-Dichloroethene	3.2	J
74-97-5	Bromochloromethane	7.9	U
67-66-3	Chloroform	1.8	BJ
71-55-6	1,1,1-Trichloroethane	7.9	U
56-23-5	Carbon tetrachloride	7.9	U
107-06-2	1,2-Dichloroethane	7.9	U
71-43-2	Benzene	7.9	U
79-01-6	Trichloroethene	29	
78-87-5	1,2-Dichloropropane	7.9	U
75-27-4	Bromodichloromethane	7.9	U
10061-01-5	cis-1,3-Dichloropropene	7.9	U
108-10-1	4-Methyl-2-pentanone	7.9	U
108-88-3	Toluene	7.9	U
10061-02-6	trans-1,3-Dichloropropene	7.9	U
79-00-5	1,1,2-Trichloroethane	7.9	U
127-18-4	Tetrachloroethene	1400	E
591-78-6	2-Hexanone	7.9	U
124-48-1	Dibromochloromethane	7.9	U
106-93-4	1,2-Dibromoethane	7.9	U
108-90-7	Chlorobenzene	7.9	U
100-41-4	Ethylbenzene	7.9	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DUP-A

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2612 Mod. Ref No.: SDG No.: SL2612

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L2612-10A

Sample wt/vol: 4.20 (g/mL) G Lab File ID: V1M9988.D

Level: (TRACE/LOW/MED) LOW Date Received: 12/20/2012

% Moisture: not dec. 25 Date Analyzed: 12/26/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
179601-23-1	m,p-Xylene	7.9	U
95-47-6	o-Xylene	7.9	U
100-42-5	Styrene	7.9	U
75-25-2	Bromoform	7.9	U
98-82-8	Isopropylbenzene	7.9	U
79-34-5	1,1,2,2-Tetrachloroethane	7.9	U
541-73-1	1,3-Dichlorobenzene	7.9	U
106-46-7	1,4-Dichlorobenzene	7.9	U
95-50-1	1,2-Dichlorobenzene	7.9	U
96-12-8	1,2-Dibromo-3-chloropropane	7.9	U
120-82-1	1,2,4-Trichlorobenzene	7.9	U
87-61-6	1,2,3-Trichlorobenzene	7.9	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	7.9	U
123-91-1	1,4-Dioxane	160	U
110-82-7	Cyclohexane	7.9	U
79-20-9	Methyl acetate	7.9	U
108-87-2	Methylcyclohexane	7.9	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DUP-AME

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2612 Mod. Ref No.: SDG No.: SL2612

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L2612-10A

Sample wt/vol: 4.90 (g/mL) G Lab File ID: V8B7369.D

Level: (TRACE/LOW/MED) MED Date Received: 12/20/2012

% Moisture: not dec. 25 Date Analyzed: 12/28/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: 100.00 (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	420	U
74-87-3	Chloromethane	420	U
75-01-4	Vinyl chloride	420	U
74-83-9	Bromomethane	420	U
75-00-3	Chloroethane	420	U
75-69-4	Trichlorofluoromethane	420	U
75-35-4	1,1-Dichloroethene	420	U
67-64-1	Acetone	420	U
75-15-0	Carbon disulfide	420	U
75-09-2	Methylene chloride	420	U
156-60-5	trans-1,2-Dichloroethene	420	U
1634-04-4	Methyl tert-butyl ether	420	U
75-34-3	1,1-Dichloroethane	420	U
78-93-3	2-Butanone	420	U
156-59-2	cis-1,2-Dichloroethene	420	U
74-97-5	Bromochloromethane	420	U
67-66-3	Chloroform	420	U
71-55-6	1,1,1-Trichloroethane	420	U
56-23-5	Carbon tetrachloride	420	U
107-06-2	1,2-Dichloroethane	420	U
71-43-2	Benzene	420	U
79-01-6	Trichloroethene	220	J
78-87-5	1,2-Dichloropropane	420	U
75-27-4	Bromodichloromethane	420	U
10061-01-5	cis-1,3-Dichloropropene	420	U
108-10-1	4-Methyl-2-pentanone	420	U
108-88-3	Toluene	420	U
10061-02-6	trans-1,3-Dichloropropene	420	U
79-00-5	1,1,2-Trichloroethane	420	U
127-18-4	Tetrachloroethene	810	
591-78-6	2-Hexanone	420	U
124-48-1	Dibromochloromethane	420	U
106-93-4	1,2-Dibromoethane	420	U
108-90-7	Chlorobenzene	420	U
100-41-4	Ethylbenzene	420	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DUP-AME

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2612 Mod. Ref No.: SDG No.: SL2612

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L2612-10A

Sample wt/vol: 4.90 (g/mL) G Lab File ID: V8B7369.D

Level: (TRACE/LOW/MED) MED Date Received: 12/20/2012

% Moisture: not dec. 25 Date Analyzed: 12/28/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: 100.00 (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
179601-23-1	m,p-Xylene	420	U
95-47-6	o-Xylene	420	U
100-42-5	Styrene	420	U
75-25-2	Bromoform	420	U
98-82-8	Isopropylbenzene	420	U
79-34-5	1,1,2,2-Tetrachloroethane	420	U
541-73-1	1,3-Dichlorobenzene	420	U
106-46-7	1,4-Dichlorobenzene	420	U
95-50-1	1,2-Dichlorobenzene	420	U
96-12-8	1,2-Dibromo-3-chloropropane	420	U
120-82-1	1,2,4-Trichlorobenzene	420	U
87-61-6	1,2,3-Trichlorobenzene	420	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	420	U
123-91-1	1,4-Dioxane	8400	U
110-82-7	Cyclohexane	420	U
79-20-9	Methyl acetate	420	U
108-87-2	Methylcyclohexane	420	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB-14(0-1)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2612 Mod. Ref No.: SDG No.: SL2612

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L2612-11A

Sample wt/vol: 4.00 (g/mL) G Lab File ID: V1M9989.D

Level: (TRACE/LOW/MED) LOW Date Received: 12/20/2012

% Moisture: not dec. 17 Date Analyzed: 12/26/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	7.5	U
74-87-3	Chloromethane	7.5	U
75-01-4	Vinyl chloride	7.5	U
74-83-9	Bromomethane	7.5	U
75-00-3	Chloroethane	7.5	U
75-69-4	Trichlorofluoromethane	7.5	U
75-35-4	1,1-Dichloroethene	7.5	U
67-64-1	Acetone	750	E
75-15-0	Carbon disulfide	7.5	U
75-09-2	Methylene chloride	7.5	U
156-60-5	trans-1,2-Dichloroethene	7.5	U
1634-04-4	Methyl tert-butyl ether	7.5	U
75-34-3	1,1-Dichloroethane	7.5	U
78-93-3	2-Butanone	7.5	U
156-59-2	cis-1,2-Dichloroethene	7.5	U
74-97-5	Bromochloromethane	7.5	U
67-66-3	Chloroform	1.8	BJ
71-55-6	1,1,1-Trichloroethane	7.5	U
56-23-5	Carbon tetrachloride	7.5	U
107-06-2	1,2-Dichloroethane	7.5	U
71-43-2	Benzene	7.5	U
79-01-6	Trichloroethene	7.5	U
78-87-5	1,2-Dichloropropane	7.5	U
75-27-4	Bromodichloromethane	7.5	U
10061-01-5	cis-1,3-Dichloropropene	7.5	U
108-10-1	4-Methyl-2-pentanone	7.5	U
108-88-3	Toluene	7.5	U
10061-02-6	trans-1,3-Dichloropropene	7.5	U
79-00-5	1,1,2-Trichloroethane	7.5	U
127-18-4	Tetrachloroethene	13	
591-78-6	2-Hexanone	7.5	U
124-48-1	Dibromochloromethane	7.5	U
106-93-4	1,2-Dibromoethane	7.5	U
108-90-7	Chlorobenzene	7.5	U
100-41-4	Ethylbenzene	2.7	J

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB-14(0-1)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2612 Mod. Ref No.: SDG No.: SL2612

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L2612-11A

Sample wt/vol: 4.00 (g/mL) G Lab File ID: V1M9989.D

Level: (TRACE/LOW/MED) LOW Date Received: 12/20/2012

% Moisture: not dec. 17 Date Analyzed: 12/26/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
179601-23-1	m,p-Xylene	11	
95-47-6	o-Xylene	2.9	J
100-42-5	Styrene	7.5	U
75-25-2	Bromoform	7.5	U
98-82-8	Isopropylbenzene	7.5	U
79-34-5	1,1,2,2-Tetrachloroethane	7.5	U
541-73-1	1,3-Dichlorobenzene	7.5	U
106-46-7	1,4-Dichlorobenzene	7.5	U
95-50-1	1,2-Dichlorobenzene	7.5	U
96-12-8	1,2-Dibromo-3-chloropropane	7.5	U
120-82-1	1,2,4-Trichlorobenzene	7.5	U
87-61-6	1,2,3-Trichlorobenzene	7.5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	7.5	U
123-91-1	1,4-Dioxane	150	U
110-82-7	Cyclohexane	7.5	U
79-20-9	Methyl acetate	7.5	U
108-87-2	Methylcyclohexane	7.5	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB-14(0-1)DL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2612 Mod. Ref No.: SDG No.: SL2612

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L2612-11ADL

Sample wt/vol: 5.00 (g/mL) G Lab File ID: V5O1091.D

Level: (TRACE/LOW/MED) LOW Date Received: 12/20/2012

% Moisture: not dec. 17 Date Analyzed: 12/27/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	6.0	U
74-87-3	Chloromethane	6.0	U
75-01-4	Vinyl chloride	6.0	U
74-83-9	Bromomethane	6.0	U
75-00-3	Chloroethane	6.0	U
75-69-4	Trichlorofluoromethane	6.0	U
75-35-4	1,1-Dichloroethene	6.0	U
67-64-1	Acetone	130	D
75-15-0	Carbon disulfide	6.0	U
75-09-2	Methylene chloride	6.0	U
156-60-5	trans-1,2-Dichloroethene	6.0	U
1634-04-4	Methyl tert-butyl ether	6.0	U
75-34-3	1,1-Dichloroethane	6.0	U
78-93-3	2-Butanone	6.0	U
156-59-2	cis-1,2-Dichloroethene	6.0	U
74-97-5	Bromochloromethane	6.0	U
67-66-3	Chloroform	6.0	U
71-55-6	1,1,1-Trichloroethane	6.0	U
56-23-5	Carbon tetrachloride	6.0	U
107-06-2	1,2-Dichloroethane	6.0	U
71-43-2	Benzene	6.0	U
79-01-6	Trichloroethene	6.0	U
78-87-5	1,2-Dichloropropane	6.0	U
75-27-4	Bromodichloromethane	6.0	U
10061-01-5	cis-1,3-Dichloropropene	6.0	U
108-10-1	4-Methyl-2-pentanone	6.0	U
108-88-3	Toluene	6.0	U
10061-02-6	trans-1,3-Dichloropropene	6.0	U
79-00-5	1,1,2-Trichloroethane	6.0	U
127-18-4	Tetrachloroethene	3.7	DJ
591-78-6	2-Hexanone	6.0	U
124-48-1	Dibromochloromethane	6.0	U
106-93-4	1,2-Dibromoethane	6.0	U
108-90-7	Chlorobenzene	6.0	U
100-41-4	Ethylbenzene	6.0	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB-14(0-1)DL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2612 Mod. Ref No.: SDG No.: SL2612

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L2612-11ADL

Sample wt/vol: 5.00 (g/mL) G Lab File ID: V5O1091.D

Level: (TRACE/LOW/MED) LOW Date Received: 12/20/2012

% Moisture: not dec. 17 Date Analyzed: 12/27/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
179601-23-1	m,p-Xylene	3.8	DJ
95-47-6	o-Xylene	6.0	U
100-42-5	Styrene	6.0	U
75-25-2	Bromoform	6.0	U
98-82-8	Isopropylbenzene	6.0	U
79-34-5	1,1,2,2-Tetrachloroethane	6.0	U
541-73-1	1,3-Dichlorobenzene	6.0	U
106-46-7	1,4-Dichlorobenzene	6.0	U
95-50-1	1,2-Dichlorobenzene	6.0	U
96-12-8	1,2-Dibromo-3-chloropropane	6.0	U
120-82-1	1,2,4-Trichlorobenzene	6.0	U
87-61-6	1,2,3-Trichlorobenzene	6.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	6.0	U
123-91-1	1,4-Dioxane	120	U
110-82-7	Cyclohexane	6.0	U
79-20-9	Methyl acetate	6.0	U
108-87-2	Methylcyclohexane	6.0	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB-14(2-3)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2612 Mod. Ref No.: SDG No.: SL2612

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L2612-12A

Sample wt/vol: 4.80 (g/mL) G Lab File ID: V5O1090.D

Level: (TRACE/LOW/MED) LOW Date Received: 12/20/2012

% Moisture: not dec. 20 Date Analyzed: 12/27/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	6.5	U
74-87-3	Chloromethane	6.5	U
75-01-4	Vinyl chloride	6.5	U
74-83-9	Bromomethane	6.5	U
75-00-3	Chloroethane	6.5	U
75-69-4	Trichlorofluoromethane	6.5	U
75-35-4	1,1-Dichloroethene	6.5	U
67-64-1	Acetone	6.5	U
75-15-0	Carbon disulfide	6.5	U
75-09-2	Methylene chloride	6.5	U
156-60-5	trans-1,2-Dichloroethene	6.5	U
1634-04-4	Methyl tert-butyl ether	6.5	U
75-34-3	1,1-Dichloroethane	6.5	U
78-93-3	2-Butanone	6.5	U
156-59-2	cis-1,2-Dichloroethene	6.5	U
74-97-5	Bromochloromethane	6.5	U
67-66-3	Chloroform	6.5	U
71-55-6	1,1,1-Trichloroethane	6.5	U
56-23-5	Carbon tetrachloride	6.5	U
107-06-2	1,2-Dichloroethane	6.5	U
71-43-2	Benzene	6.5	U
79-01-6	Trichloroethene	6.5	U
78-87-5	1,2-Dichloropropane	6.5	U
75-27-4	Bromodichloromethane	6.5	U
10061-01-5	cis-1,3-Dichloropropene	6.5	U
108-10-1	4-Methyl-2-pentanone	6.5	U
108-88-3	Toluene	6.5	U
10061-02-6	trans-1,3-Dichloropropene	6.5	U
79-00-5	1,1,2-Trichloroethane	6.5	U
127-18-4	Tetrachloroethene	43	
591-78-6	2-Hexanone	6.5	U
124-48-1	Dibromochloromethane	6.5	U
106-93-4	1,2-Dibromoethane	6.5	U
108-90-7	Chlorobenzene	6.5	U
100-41-4	Ethylbenzene	6.5	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB-14(2-3)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2612 Mod. Ref No.: SDG No.: SL2612

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L2612-12A

Sample wt/vol: 4.80 (g/mL) G Lab File ID: V5O1090.D

Level: (TRACE/LOW/MED) LOW Date Received: 12/20/2012

% Moisture: not dec. 20 Date Analyzed: 12/27/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
179601-23-1	m,p-Xylene	6.5	U
95-47-6	o-Xylene	6.5	U
100-42-5	Styrene	6.5	U
75-25-2	Bromoform	6.5	U
98-82-8	Isopropylbenzene	6.5	U
79-34-5	1,1,2,2-Tetrachloroethane	6.5	U
541-73-1	1,3-Dichlorobenzene	6.5	U
106-46-7	1,4-Dichlorobenzene	6.5	U
95-50-1	1,2-Dichlorobenzene	6.5	U
96-12-8	1,2-Dibromo-3-chloropropane	6.5	U
120-82-1	1,2,4-Trichlorobenzene	6.5	U
87-61-6	1,2,3-Trichlorobenzene	6.5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	6.5	U
123-91-1	1,4-Dioxane	130	U
110-82-7	Cyclohexane	6.5	U
79-20-9	Methyl acetate	6.5	U
108-87-2	Methylcyclohexane	6.5	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB-14(5-6)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2612 Mod. Ref No.: SDG No.: SL2612

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L2612-13C

Sample wt/vol: 5.00 (g/mL) G Lab File ID: V1M9991.D

Level: (TRACE/LOW/MED) LOW Date Received: 12/20/2012

% Moisture: not dec. 23 Date Analyzed: 12/26/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	6.5	U
74-87-3	Chloromethane	6.5	U
75-01-4	Vinyl chloride	6.5	U
74-83-9	Bromomethane	6.5	U
75-00-3	Chloroethane	6.5	U
75-69-4	Trichlorofluoromethane	6.5	U
75-35-4	1,1-Dichloroethene	6.5	U
67-64-1	Acetone	71	
75-15-0	Carbon disulfide	6.5	U
75-09-2	Methylene chloride	6.5	U
156-60-5	trans-1,2-Dichloroethene	1.3	J
1634-04-4	Methyl tert-butyl ether	6.5	U
75-34-3	1,1-Dichloroethane	6.5	U
78-93-3	2-Butanone	6.5	U
156-59-2	cis-1,2-Dichloroethene	28	
74-97-5	Bromochloromethane	6.5	U
67-66-3	Chloroform	1.8	BJ
71-55-6	1,1,1-Trichloroethane	6.5	U
56-23-5	Carbon tetrachloride	6.5	U
107-06-2	1,2-Dichloroethane	6.5	U
71-43-2	Benzene	6.5	U
79-01-6	Trichloroethene	9.4	
78-87-5	1,2-Dichloropropane	6.5	U
75-27-4	Bromodichloromethane	6.5	U
10061-01-5	cis-1,3-Dichloropropene	6.5	U
108-10-1	4-Methyl-2-pentanone	6.5	U
108-88-3	Toluene	6.5	U
10061-02-6	trans-1,3-Dichloropropene	6.5	U
79-00-5	1,1,2-Trichloroethane	6.5	U
127-18-4	Tetrachloroethene	48	
591-78-6	2-Hexanone	6.5	U
124-48-1	Dibromochloromethane	6.5	U
106-93-4	1,2-Dibromoethane	6.5	U
108-90-7	Chlorobenzene	6.5	U
100-41-4	Ethylbenzene	6.5	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB-14(5-6)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2612 Mod. Ref No.: SDG No.: SL2612

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L2612-13C

Sample wt/vol: 5.00 (g/mL) G Lab File ID: V1M9991.D

Level: (TRACE/LOW/MED) LOW Date Received: 12/20/2012

% Moisture: not dec. 23 Date Analyzed: 12/26/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
179601-23-1	m,p-Xylene	6.5	U
95-47-6	o-Xylene	6.5	U
100-42-5	Styrene	6.5	U
75-25-2	Bromoform	6.5	U
98-82-8	Isopropylbenzene	6.5	U
79-34-5	1,1,2,2-Tetrachloroethane	6.5	U
541-73-1	1,3-Dichlorobenzene	6.5	U
106-46-7	1,4-Dichlorobenzene	6.5	U
95-50-1	1,2-Dichlorobenzene	6.5	U
96-12-8	1,2-Dibromo-3-chloropropane	6.5	U
120-82-1	1,2,4-Trichlorobenzene	6.5	U
87-61-6	1,2,3-Trichlorobenzene	6.5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	6.5	U
123-91-1	1,4-Dioxane	130	U
110-82-7	Cyclohexane	6.5	U
79-20-9	Methyl acetate	6.5	U
108-87-2	Methylcyclohexane	6.5	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB-14(7-8)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2612 Mod. Ref No.: SDG No.: SL2612

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L2612-14A

Sample wt/vol: 4.70 (g/mL) G Lab File ID: V1M9994.D

Level: (TRACE/LOW/MED) LOW Date Received: 12/20/2012

% Moisture: not dec. 25 Date Analyzed: 12/26/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	7.1	U
74-87-3	Chloromethane	7.1	U
75-01-4	Vinyl chloride	3.9	J
74-83-9	Bromomethane	7.1	U
75-00-3	Chloroethane	7.1	U
75-69-4	Trichlorofluoromethane	7.1	U
75-35-4	1,1-Dichloroethene	7.1	U
67-64-1	Acetone	100	
75-15-0	Carbon disulfide	7.1	U
75-09-2	Methylene chloride	2.1	J
156-60-5	trans-1,2-Dichloroethene	10	
1634-04-4	Methyl tert-butyl ether	7.1	U
75-34-3	1,1-Dichloroethane	7.1	U
78-93-3	2-Butanone	7.1	U
156-59-2	cis-1,2-Dichloroethene	240	
74-97-5	Bromochloromethane	7.1	U
67-66-3	Chloroform	2.1	BJ
71-55-6	1,1,1-Trichloroethane	7.1	U
56-23-5	Carbon tetrachloride	7.1	U
107-06-2	1,2-Dichloroethane	7.1	U
71-43-2	Benzene	7.1	U
79-01-6	Trichloroethene	1.7	J
78-87-5	1,2-Dichloropropane	7.1	U
75-27-4	Bromodichloromethane	7.1	U
10061-01-5	cis-1,3-Dichloropropene	7.1	U
108-10-1	4-Methyl-2-pentanone	7.1	U
108-88-3	Toluene	7.1	U
10061-02-6	trans-1,3-Dichloropropene	7.1	U
79-00-5	1,1,2-Trichloroethane	7.1	U
127-18-4	Tetrachloroethene	1.7	J
591-78-6	2-Hexanone	3.8	J
124-48-1	Dibromochloromethane	7.1	U
106-93-4	1,2-Dibromoethane	7.1	U
108-90-7	Chlorobenzene	7.1	U
100-41-4	Ethylbenzene	7.1	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB-14(7-8)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2612 Mod. Ref No.: SDG No.: SL2612

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L2612-14A

Sample wt/vol: 4.70 (g/mL) G Lab File ID: V1M9994.D

Level: (TRACE/LOW/MED) LOW Date Received: 12/20/2012

% Moisture: not dec. 25 Date Analyzed: 12/26/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
179601-23-1	m,p-Xylene	7.1	U
95-47-6	o-Xylene	7.1	U
100-42-5	Styrene	7.1	U
75-25-2	Bromoform	7.1	U
98-82-8	Isopropylbenzene	7.1	U
79-34-5	1,1,2,2-Tetrachloroethane	7.1	U
541-73-1	1,3-Dichlorobenzene	7.1	U
106-46-7	1,4-Dichlorobenzene	7.1	U
95-50-1	1,2-Dichlorobenzene	7.1	U
96-12-8	1,2-Dibromo-3-chloropropane	7.1	U
120-82-1	1,2,4-Trichlorobenzene	7.1	U
87-61-6	1,2,3-Trichlorobenzene	7.1	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	7.1	U
123-91-1	1,4-Dioxane	140	U
110-82-7	Cyclohexane	7.1	U
79-20-9	Methyl acetate	7.1	U
108-87-2	Methylcyclohexane	7.1	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB-14(8-9)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2612 Mod. Ref No.: SDG No.: SL2612

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L2612-15A

Sample wt/vol: 4.50 (g/mL) G Lab File ID: V1M9995.D

Level: (TRACE/LOW/MED) LOW Date Received: 12/20/2012

% Moisture: not dec. 23 Date Analyzed: 12/26/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	7.2	U
74-87-3	Chloromethane	7.2	U
75-01-4	Vinyl chloride	7.2	U
74-83-9	Bromomethane	7.2	U
75-00-3	Chloroethane	7.2	U
75-69-4	Trichlorofluoromethane	7.2	U
75-35-4	1,1-Dichloroethene	7.2	U
67-64-1	Acetone	54	
75-15-0	Carbon disulfide	1.9	J
75-09-2	Methylene chloride	1.9	J
156-60-5	trans-1,2-Dichloroethene	7.2	U
1634-04-4	Methyl tert-butyl ether	7.2	U
75-34-3	1,1-Dichloroethane	7.2	U
78-93-3	2-Butanone	7.2	U
156-59-2	cis-1,2-Dichloroethene	96	
74-97-5	Bromochloromethane	7.2	U
67-66-3	Chloroform	1.6	BJ
71-55-6	1,1,1-Trichloroethane	7.2	U
56-23-5	Carbon tetrachloride	7.2	U
107-06-2	1,2-Dichloroethane	7.2	U
71-43-2	Benzene	7.2	U
79-01-6	Trichloroethene	7.2	U
78-87-5	1,2-Dichloropropane	7.2	U
75-27-4	Bromodichloromethane	7.2	U
10061-01-5	cis-1,3-Dichloropropene	7.2	U
108-10-1	4-Methyl-2-pentanone	7.2	U
108-88-3	Toluene	7.2	U
10061-02-6	trans-1,3-Dichloropropene	7.2	U
79-00-5	1,1,2-Trichloroethane	7.2	U
127-18-4	Tetrachloroethene	7.2	U
591-78-6	2-Hexanone	7.2	U
124-48-1	Dibromochloromethane	7.2	U
106-93-4	1,2-Dibromoethane	7.2	U
108-90-7	Chlorobenzene	7.2	U
100-41-4	Ethylbenzene	7.2	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB-14(8-9)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2612 Mod. Ref No.: SDG No.: SL2612

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L2612-15A

Sample wt/vol: 4.50 (g/mL) G Lab File ID: V1M9995.D

Level: (TRACE/LOW/MED) LOW Date Received: 12/20/2012

% Moisture: not dec. 23 Date Analyzed: 12/26/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
179601-23-1	m,p-Xylene	7.2	U
95-47-6	o-Xylene	7.2	U
100-42-5	Styrene	7.2	U
75-25-2	Bromoform	7.2	U
98-82-8	Isopropylbenzene	7.2	U
79-34-5	1,1,2,2-Tetrachloroethane	7.2	U
541-73-1	1,3-Dichlorobenzene	7.2	U
106-46-7	1,4-Dichlorobenzene	7.2	U
95-50-1	1,2-Dichlorobenzene	7.2	U
96-12-8	1,2-Dibromo-3-chloropropane	7.2	U
120-82-1	1,2,4-Trichlorobenzene	7.2	U
87-61-6	1,2,3-Trichlorobenzene	7.2	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	7.2	U
123-91-1	1,4-Dioxane	140	U
110-82-7	Cyclohexane	7.2	U
79-20-9	Methyl acetate	7.2	U
108-87-2	Methylcyclohexane	7.2	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-4(121912)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2612 Mod. Ref No.: SDG No.: SL2612

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L2612-16A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M0052.D

Level: (TRACE/LOW/MED) LOW Date Received: 12/20/2012

% Moisture: not dec. Date Analyzed: 12/28/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	1.0	U
74-87-3	Chloromethane	1.0	U
75-01-4	Vinyl chloride	1.0	U
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	1.0	U
75-09-2	Methylene chloride	1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	U
1634-04-4	Methyl tert-butyl ether	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
74-97-5	Bromochloromethane	1.0	U
67-66-3	Chloroform	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
71-43-2	Benzene	1.0	U
79-01-6	Trichloroethene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U
108-90-7	Chlorobenzene	1.0	U
100-41-4	Ethylbenzene	1.0	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-4(121912)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2612 Mod. Ref No.: SDG No.: SL2612

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L2612-16A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M0052.D

Level: (TRACE/LOW/MED) LOW Date Received: 12/20/2012

% Moisture: not dec. Date Analyzed: 12/28/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
179601-23-1	m,p-Xylene	1.0	U
95-47-6	o-Xylene	1.0	U
100-42-5	Styrene	1.0	U
75-25-2	Bromoform	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U
123-91-1	1,4-Dioxane	100	U
110-82-7	Cyclohexane	1.0	U
79-20-9	Methyl acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

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Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2612 Mod. Ref No.: SDG No.: SL2612

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L2612-17A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M0045.D

Level: (TRACE/LOW/MED) LOW Date Received: 12/20/2012

% Moisture: not dec. Date Analyzed: 12/28/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	1.0	U
74-87-3	Chloromethane	1.0	U
75-01-4	Vinyl chloride	1.0	U
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	1.0	U
75-09-2	Methylene chloride	1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	U
1634-04-4	Methyl tert-butyl ether	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
74-97-5	Bromochloromethane	1.0	U
67-66-3	Chloroform	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
71-43-2	Benzene	1.0	U
79-01-6	Trichloroethene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U
108-90-7	Chlorobenzene	1.0	U
100-41-4	Ethylbenzene	1.0	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

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Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2612 Mod. Ref No.: SDG No.: SL2612

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L2612-17A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M0045.D

Level: (TRACE/LOW/MED) LOW Date Received: 12/20/2012

% Moisture: not dec. Date Analyzed: 12/28/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
179601-23-1	m,p-Xylene	1.0	U
95-47-6	o-Xylene	1.0	U
100-42-5	Styrene	1.0	U
75-25-2	Bromoform	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U
123-91-1	1,4-Dioxane	100	U
110-82-7	Cyclohexane	1.0	U
79-20-9	Methyl acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MB-69924

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2612 Mod. Ref No.: SDG No.: SL2612

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: MB-69924

Sample wt/vol: 5.00 (g/mL) G Lab File ID: V1M9974.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. 0.0 Date Analyzed: 12/26/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	1.1	J
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MB-69924

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2612 Mod. Ref No.: SDG No.: SL2612

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: MB-69924

Sample wt/vol: 5.00 (g/mL) G Lab File ID: V1M9974.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. 0.0 Date Analyzed: 12/26/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
179601-23-1	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
123-91-1	1,4-Dioxane	100	U
110-82-7	Cyclohexane	5.0	U
79-20-9	Methyl acetate	5.0	U
108-87-2	Methylcyclohexane	5.0	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MB-69943

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2612 Mod. Ref No.: SDG No.: SL2612

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: MB-69943

Sample wt/vol: 5.00 (g/mL) G Lab File ID: V5O1083.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. 0.0 Date Analyzed: 12/27/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	1.3	J
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MB-69943

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2612 Mod. Ref No.: SDG No.: SL2612

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: MB-69943

Sample wt/vol: 5.00 (g/mL) G Lab File ID: V5O1083.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. 0.0 Date Analyzed: 12/27/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
179601-23-1	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
123-91-1	1,4-Dioxane	100	U
110-82-7	Cyclohexane	5.0	U
79-20-9	Methyl acetate	5.0	U
108-87-2	Methylcyclohexane	5.0	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MB-69954

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2612 Mod. Ref No.: SDG No.: SL2612

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: MB-69954

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M0043.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 12/28/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	1.0	U
74-87-3	Chloromethane	1.0	U
75-01-4	Vinyl chloride	1.0	U
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	1.0	U
75-09-2	Methylene chloride	1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	U
1634-04-4	Methyl tert-butyl ether	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
74-97-5	Bromochloromethane	1.0	U
67-66-3	Chloroform	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
71-43-2	Benzene	1.0	U
79-01-6	Trichloroethene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U
108-90-7	Chlorobenzene	1.0	U
100-41-4	Ethylbenzene	1.0	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MB-69954

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2612 Mod. Ref No.: SDG No.: SL2612

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: MB-69954

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M0043.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 12/28/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
179601-23-1	m,p-Xylene	1.0	U
95-47-6	o-Xylene	1.0	U
100-42-5	Styrene	1.0	U
75-25-2	Bromoform	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U
123-91-1	1,4-Dioxane	100	U
110-82-7	Cyclohexane	1.0	U
79-20-9	Methyl acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MB-69959

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2612 Mod. Ref No.: SDG No.: SL2612

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: MB-69959

Sample wt/vol: 5.00 (g/mL) G Lab File ID: V8B7356.D

Level: (TRACE/LOW/MED) MED Date Received:

% Moisture: not dec. 0.0 Date Analyzed: 12/28/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: 100.00 (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	250	U
74-87-3	Chloromethane	250	U
75-01-4	Vinyl chloride	250	U
74-83-9	Bromomethane	250	U
75-00-3	Chloroethane	250	U
75-69-4	Trichlorofluoromethane	250	U
75-35-4	1,1-Dichloroethene	250	U
67-64-1	Acetone	250	U
75-15-0	Carbon disulfide	250	U
75-09-2	Methylene chloride	250	U
156-60-5	trans-1,2-Dichloroethene	250	U
1634-04-4	Methyl tert-butyl ether	250	U
75-34-3	1,1-Dichloroethane	250	U
78-93-3	2-Butanone	250	U
156-59-2	cis-1,2-Dichloroethene	250	U
74-97-5	Bromochloromethane	250	U
67-66-3	Chloroform	250	U
71-55-6	1,1,1-Trichloroethane	250	U
56-23-5	Carbon tetrachloride	250	U
107-06-2	1,2-Dichloroethane	250	U
71-43-2	Benzene	250	U
79-01-6	Trichloroethene	250	U
78-87-5	1,2-Dichloropropane	250	U
75-27-4	Bromodichloromethane	250	U
10061-01-5	cis-1,3-Dichloropropene	250	U
108-10-1	4-Methyl-2-pentanone	250	U
108-88-3	Toluene	250	U
10061-02-6	trans-1,3-Dichloropropene	250	U
79-00-5	1,1,2-Trichloroethane	250	U
127-18-4	Tetrachloroethene	250	U
591-78-6	2-Hexanone	250	U
124-48-1	Dibromochloromethane	250	U
106-93-4	1,2-Dibromoethane	250	U
108-90-7	Chlorobenzene	250	U
100-41-4	Ethylbenzene	250	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MB-69959

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2612 Mod. Ref No.: SDG No.: SL2612

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: MB-69959

Sample wt/vol: 5.00 (g/mL) G Lab File ID: V8B7356.D

Level: (TRACE/LOW/MED) MED Date Received:

% Moisture: not dec. 0.0 Date Analyzed: 12/28/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: 100.00 (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
179601-23-1	m,p-Xylene	250	U
95-47-6	o-Xylene	250	U
100-42-5	Styrene	250	U
75-25-2	Bromoform	250	U
98-82-8	Isopropylbenzene	250	U
79-34-5	1,1,2,2-Tetrachloroethane	250	U
541-73-1	1,3-Dichlorobenzene	250	U
106-46-7	1,4-Dichlorobenzene	250	U
95-50-1	1,2-Dichlorobenzene	250	U
96-12-8	1,2-Dibromo-3-chloropropane	250	U
120-82-1	1,2,4-Trichlorobenzene	250	U
87-61-6	1,2,3-Trichlorobenzene	250	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	250	U
123-91-1	1,4-Dioxane	5000	U
110-82-7	Cyclohexane	250	U
79-20-9	Methyl acetate	250	U
108-87-2	Methylcyclohexane	250	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MB-69978

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2612 Mod. Ref No.: SDG No.: SL2612

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: MB-69978

Sample wt/vol: 5.00 (g/mL) G Lab File ID: V8B7471.D

Level: (TRACE/LOW/MED) MED Date Received:

% Moisture: not dec. 0.0 Date Analyzed: 01/03/2013

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: 100.00 (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	250	U
74-87-3	Chloromethane	250	U
75-01-4	Vinyl chloride	250	U
74-83-9	Bromomethane	250	U
75-00-3	Chloroethane	250	U
75-69-4	Trichlorofluoromethane	250	U
75-35-4	1,1-Dichloroethene	250	U
67-64-1	Acetone	250	U
75-15-0	Carbon disulfide	250	U
75-09-2	Methylene chloride	250	U
156-60-5	trans-1,2-Dichloroethene	250	U
1634-04-4	Methyl tert-butyl ether	250	U
75-34-3	1,1-Dichloroethane	250	U
78-93-3	2-Butanone	250	U
156-59-2	cis-1,2-Dichloroethene	250	U
74-97-5	Bromochloromethane	250	U
67-66-3	Chloroform	250	U
71-55-6	1,1,1-Trichloroethane	250	U
56-23-5	Carbon tetrachloride	250	U
107-06-2	1,2-Dichloroethane	250	U
71-43-2	Benzene	250	U
79-01-6	Trichloroethene	250	U
78-87-5	1,2-Dichloropropane	250	U
75-27-4	Bromodichloromethane	250	U
10061-01-5	cis-1,3-Dichloropropene	250	U
108-10-1	4-Methyl-2-pentanone	250	U
108-88-3	Toluene	250	U
10061-02-6	trans-1,3-Dichloropropene	250	U
79-00-5	1,1,2-Trichloroethane	250	U
127-18-4	Tetrachloroethene	250	U
591-78-6	2-Hexanone	250	U
124-48-1	Dibromochloromethane	250	U
106-93-4	1,2-Dibromoethane	250	U
108-90-7	Chlorobenzene	250	U
100-41-4	Ethylbenzene	250	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MB-69978

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2612 Mod. Ref No.: SDG No.: SL2612

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: MB-69978

Sample wt/vol: 5.00 (g/mL) G Lab File ID: V8B7471.D

Level: (TRACE/LOW/MED) MED Date Received:

% Moisture: not dec. 0.0 Date Analyzed: 01/03/2013

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: 100.00 (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
179601-23-1	m,p-Xylene	250	U
95-47-6	o-Xylene	250	U
100-42-5	Styrene	250	U
75-25-2	Bromoform	250	U
98-82-8	Isopropylbenzene	250	U
79-34-5	1,1,2,2-Tetrachloroethane	250	U
541-73-1	1,3-Dichlorobenzene	250	U
106-46-7	1,4-Dichlorobenzene	250	U
95-50-1	1,2-Dichlorobenzene	250	U
96-12-8	1,2-Dibromo-3-chloropropane	250	U
120-82-1	1,2,4-Trichlorobenzene	250	U
87-61-6	1,2,3-Trichlorobenzene	250	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	250	U
123-91-1	1,4-Dioxane	5000	U
110-82-7	Cyclohexane	250	U
79-20-9	Methyl acetate	250	U
108-87-2	Methylcyclohexane	250	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

LCS-69924

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2612 Mod. Ref No.: SDG No.: SL2612

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: LCS-69924

Sample wt/vol: 5.00 (g/mL) G Lab File ID: V1M9972.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. 0.0 Date Analyzed: 12/26/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	58	
74-87-3	Chloromethane	55	
75-01-4	Vinyl chloride	55	
74-83-9	Bromomethane	52	
75-00-3	Chloroethane	54	
75-69-4	Trichlorofluoromethane	58	
75-35-4	1,1-Dichloroethene	50	
67-64-1	Acetone	62	
75-15-0	Carbon disulfide	54	
75-09-2	Methylene chloride	49	
156-60-5	trans-1,2-Dichloroethene	55	
1634-04-4	Methyl tert-butyl ether	51	
75-34-3	1,1-Dichloroethane	54	
78-93-3	2-Butanone	60	
156-59-2	cis-1,2-Dichloroethene	55	
74-97-5	Bromochloromethane	51	
67-66-3	Chloroform	51	B
71-55-6	1,1,1-Trichloroethane	56	
56-23-5	Carbon tetrachloride	58	
107-06-2	1,2-Dichloroethane	52	
71-43-2	Benzene	54	
79-01-6	Trichloroethene	56	
78-87-5	1,2-Dichloropropane	51	
75-27-4	Bromodichloromethane	53	
10061-01-5	cis-1,3-Dichloropropene	54	
108-10-1	4-Methyl-2-pentanone	50	
108-88-3	Toluene	55	
10061-02-6	trans-1,3-Dichloropropene	54	
79-00-5	1,1,2-Trichloroethane	50	
127-18-4	Tetrachloroethene	53	
591-78-6	2-Hexanone	56	
124-48-1	Dibromochloromethane	51	
106-93-4	1,2-Dibromoethane	50	
108-90-7	Chlorobenzene	53	
100-41-4	Ethylbenzene	54	

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

LCS-69924

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2612 Mod. Ref No.: SDG No.: SL2612

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: LCS-69924

Sample wt/vol: 5.00 (g/mL) G Lab File ID: V1M9972.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. 0.0 Date Analyzed: 12/26/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
179601-23-1	m,p-Xylene	110	
95-47-6	o-Xylene	52	
100-42-5	Styrene	53	
75-25-2	Bromoform	50	
98-82-8	Isopropylbenzene	56	
79-34-5	1,1,2,2-Tetrachloroethane	47	
541-73-1	1,3-Dichlorobenzene	53	
106-46-7	1,4-Dichlorobenzene	52	
95-50-1	1,2-Dichlorobenzene	51	
96-12-8	1,2-Dibromo-3-chloropropane	47	
120-82-1	1,2,4-Trichlorobenzene	57	
87-61-6	1,2,3-Trichlorobenzene	53	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	58	
123-91-1	1,4-Dioxane	1000	
110-82-7	Cyclohexane	57	
79-20-9	Methyl acetate	46	
108-87-2	Methylcyclohexane	57	

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

LCS-69943

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2612 Mod. Ref No.: SDG No.: SL2612

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: LCS-69943

Sample wt/vol: 5.00 (g/mL) G Lab File ID: V5O1082.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. 0.0 Date Analyzed: 12/27/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	47	
74-87-3	Chloromethane	50	
75-01-4	Vinyl chloride	51	
74-83-9	Bromomethane	51	
75-00-3	Chloroethane	52	
75-69-4	Trichlorofluoromethane	51	
75-35-4	1,1-Dichloroethene	51	
67-64-1	Acetone	44	
75-15-0	Carbon disulfide	50	
75-09-2	Methylene chloride	46	
156-60-5	trans-1,2-Dichloroethene	50	
1634-04-4	Methyl tert-butyl ether	49	
75-34-3	1,1-Dichloroethane	50	
78-93-3	2-Butanone	51	
156-59-2	cis-1,2-Dichloroethene	49	
74-97-5	Bromochloromethane	48	
67-66-3	Chloroform	49	B
71-55-6	1,1,1-Trichloroethane	53	
56-23-5	Carbon tetrachloride	53	
107-06-2	1,2-Dichloroethane	49	
71-43-2	Benzene	50	
79-01-6	Trichloroethene	51	
78-87-5	1,2-Dichloropropane	50	
75-27-4	Bromodichloromethane	50	
10061-01-5	cis-1,3-Dichloropropene	50	
108-10-1	4-Methyl-2-pentanone	51	
108-88-3	Toluene	50	
10061-02-6	trans-1,3-Dichloropropene	49	
79-00-5	1,1,2-Trichloroethane	50	
127-18-4	Tetrachloroethene	51	
591-78-6	2-Hexanone	51	
124-48-1	Dibromochloromethane	51	
106-93-4	1,2-Dibromoethane	50	
108-90-7	Chlorobenzene	51	
100-41-4	Ethylbenzene	53	

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

LCS-69943

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2612 Mod. Ref No.: SDG No.: SL2612

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: LCS-69943

Sample wt/vol: 5.00 (g/mL) G Lab File ID: V5O1082.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. 0.0 Date Analyzed: 12/27/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
179601-23-1	m,p-Xylene	100	
95-47-6	o-Xylene	52	
100-42-5	Styrene	51	
75-25-2	Bromoform	53	
98-82-8	Isopropylbenzene	53	
79-34-5	1,1,2,2-Tetrachloroethane	50	
541-73-1	1,3-Dichlorobenzene	51	
106-46-7	1,4-Dichlorobenzene	50	
95-50-1	1,2-Dichlorobenzene	49	
96-12-8	1,2-Dibromo-3-chloropropane	52	
120-82-1	1,2,4-Trichlorobenzene	50	
87-61-6	1,2,3-Trichlorobenzene	50	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	46	
123-91-1	1,4-Dioxane	900	
110-82-7	Cyclohexane	47	
79-20-9	Methyl acetate	45	
108-87-2	Methylcyclohexane	46	

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

LCS-69954

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2612 Mod. Ref No.: SDG No.: SL2612

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: LCS-69954

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M0042.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 12/28/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	24	
74-87-3	Chloromethane	30	
75-01-4	Vinyl chloride	31	
74-83-9	Bromomethane	30	
75-00-3	Chloroethane	33	
75-69-4	Trichlorofluoromethane	40	
75-35-4	1,1-Dichloroethene	42	
67-64-1	Acetone	44	
75-15-0	Carbon disulfide	51	
75-09-2	Methylene chloride	48	
156-60-5	trans-1,2-Dichloroethene	46	
1634-04-4	Methyl tert-butyl ether	42	
75-34-3	1,1-Dichloroethane	47	
78-93-3	2-Butanone	44	
156-59-2	cis-1,2-Dichloroethene	46	
74-97-5	Bromochloromethane	42	
67-66-3	Chloroform	46	
71-55-6	1,1,1-Trichloroethane	43	
56-23-5	Carbon tetrachloride	42	
107-06-2	1,2-Dichloroethane	47	
71-43-2	Benzene	47	
79-01-6	Trichloroethene	42	
78-87-5	1,2-Dichloropropane	46	
75-27-4	Bromodichloromethane	45	
10061-01-5	cis-1,3-Dichloropropene	46	
108-10-1	4-Methyl-2-pentanone	39	
108-88-3	Toluene	48	
10061-02-6	trans-1,3-Dichloropropene	45	
79-00-5	1,1,2-Trichloroethane	43	
127-18-4	Tetrachloroethene	42	
591-78-6	2-Hexanone	49	
124-48-1	Dibromochloromethane	47	
106-93-4	1,2-Dibromoethane	48	
108-90-7	Chlorobenzene	51	
100-41-4	Ethylbenzene	53	

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

LCS-69954

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2612 Mod. Ref No.: SDG No.: SL2612

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: LCS-69954

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M0042.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 12/28/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
179601-23-1	m,p-Xylene	100	
95-47-6	o-Xylene	51	
100-42-5	Styrene	51	
75-25-2	Bromoform	41	
98-82-8	Isopropylbenzene	52	
79-34-5	1,1,2,2-Tetrachloroethane	50	
541-73-1	1,3-Dichlorobenzene	51	
106-46-7	1,4-Dichlorobenzene	49	
95-50-1	1,2-Dichlorobenzene	49	
96-12-8	1,2-Dibromo-3-chloropropane	43	
120-82-1	1,2,4-Trichlorobenzene	44	
87-61-6	1,2,3-Trichlorobenzene	41	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	36	
123-91-1	1,4-Dioxane	1200	
110-82-7	Cyclohexane	40	
79-20-9	Methyl acetate	38	
108-87-2	Methylcyclohexane	46	

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

LCS-69959

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2612 Mod. Ref No.: SDG No.: SL2612

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: LCS-69959

Sample wt/vol: 5.00 (g/mL) G Lab File ID: V8B7354.D

Level: (TRACE/LOW/MED) MED Date Received:

% Moisture: not dec. 0.0 Date Analyzed: 12/28/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: 100.00 (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	1700	
74-87-3	Chloromethane	2200	
75-01-4	Vinyl chloride	1700	
74-83-9	Bromomethane	1900	
75-00-3	Chloroethane	1600	
75-69-4	Trichlorofluoromethane	1800	
75-35-4	1,1-Dichloroethene	1900	
67-64-1	Acetone	2800	
75-15-0	Carbon disulfide	2000	
75-09-2	Methylene chloride	1900	
156-60-5	trans-1,2-Dichloroethene	2000	
1634-04-4	Methyl tert-butyl ether	2100	
75-34-3	1,1-Dichloroethane	2100	
78-93-3	2-Butanone	2600	
156-59-2	cis-1,2-Dichloroethene	2100	
74-97-5	Bromochloromethane	2000	
67-66-3	Chloroform	2000	
71-55-6	1,1,1-Trichloroethane	2000	
56-23-5	Carbon tetrachloride	1900	
107-06-2	1,2-Dichloroethane	2100	
71-43-2	Benzene	2200	
79-01-6	Trichloroethene	2400	
78-87-5	1,2-Dichloropropane	2400	
75-27-4	Bromodichloromethane	2300	
10061-01-5	cis-1,3-Dichloropropene	2600	
108-10-1	4-Methyl-2-pentanone	2900	
108-88-3	Toluene	2500	
10061-02-6	trans-1,3-Dichloropropene	2600	
79-00-5	1,1,2-Trichloroethane	2700	
127-18-4	Tetrachloroethene	1700	
591-78-6	2-Hexanone	2800	
124-48-1	Dibromochloromethane	2100	
106-93-4	1,2-Dibromoethane	2300	
108-90-7	Chlorobenzene	2200	
100-41-4	Ethylbenzene	2300	

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

LCS-69959

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2612 Mod. Ref No.: SDG No.: SL2612

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: LCS-69959

Sample wt/vol: 5.00 (g/mL) G Lab File ID: V8B7354.D

Level: (TRACE/LOW/MED) MED Date Received:

% Moisture: not dec. 0.0 Date Analyzed: 12/28/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: 100.00 (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
179601-23-1	m,p-Xylene	4500	
95-47-6	o-Xylene	2200	
100-42-5	Styrene	2100	
75-25-2	Bromoform	2100	
98-82-8	Isopropylbenzene	2300	
79-34-5	1,1,2,2-Tetrachloroethane	2700	
541-73-1	1,3-Dichlorobenzene	2200	
106-46-7	1,4-Dichlorobenzene	2200	
95-50-1	1,2-Dichlorobenzene	2200	
96-12-8	1,2-Dibromo-3-chloropropane	2400	
120-82-1	1,2,4-Trichlorobenzene	2100	
87-61-6	1,2,3-Trichlorobenzene	2100	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	2100	
123-91-1	1,4-Dioxane	62000	
110-82-7	Cyclohexane	2300	
79-20-9	Methyl acetate	2500	
108-87-2	Methylcyclohexane	2500	

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

LCS-69978

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2612 Mod. Ref No.: SDG No.: SL2612

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: LCS-69978

Sample wt/vol: 5.00 (g/mL) G Lab File ID: V8B7469.D

Level: (TRACE/LOW/MED) MED Date Received:

% Moisture: not dec. 0.0 Date Analyzed: 01/02/2013

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: 100.00 (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	1600	
74-87-3	Chloromethane	2700	
75-01-4	Vinyl chloride	2200	
74-83-9	Bromomethane	2900	
75-00-3	Chloroethane	2500	
75-69-4	Trichlorofluoromethane	1800	
75-35-4	1,1-Dichloroethene	2200	
67-64-1	Acetone	2900	
75-15-0	Carbon disulfide	2300	
75-09-2	Methylene chloride	2800	
156-60-5	trans-1,2-Dichloroethene	2500	
1634-04-4	Methyl tert-butyl ether	3200	
75-34-3	1,1-Dichloroethane	2800	
78-93-3	2-Butanone	3000	
156-59-2	cis-1,2-Dichloroethene	2800	
74-97-5	Bromochloromethane	3100	
67-66-3	Chloroform	2800	
71-55-6	1,1,1-Trichloroethane	2300	
56-23-5	Carbon tetrachloride	2100	
107-06-2	1,2-Dichloroethane	3000	
71-43-2	Benzene	2700	
79-01-6	Trichloroethene	2000	
78-87-5	1,2-Dichloropropane	2900	
75-27-4	Bromodichloromethane	3000	
10061-01-5	cis-1,3-Dichloropropene	3100	
108-10-1	4-Methyl-2-pentanone	3000	
108-88-3	Toluene	2500	
10061-02-6	trans-1,3-Dichloropropene	3100	
79-00-5	1,1,2-Trichloroethane	3100	
127-18-4	Tetrachloroethene	2000	
591-78-6	2-Hexanone	3100	
124-48-1	Dibromochloromethane	3100	
106-93-4	1,2-Dibromoethane	3000	
108-90-7	Chlorobenzene	2500	
100-41-4	Ethylbenzene	2300	

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

LCS-69978

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2612 Mod. Ref No.: SDG No.: SL2612

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: LCS-69978

Sample wt/vol: 5.00 (g/mL) G Lab File ID: V8B7469.D

Level: (TRACE/LOW/MED) MED Date Received:

% Moisture: not dec. 0.0 Date Analyzed: 01/02/2013

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: 100.00 (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
179601-23-1	m,p-Xylene	4500	
95-47-6	o-Xylene	2400	
100-42-5	Styrene	2500	
75-25-2	Bromoform	3100	
98-82-8	Isopropylbenzene	2100	
79-34-5	1,1,2,2-Tetrachloroethane	3000	
541-73-1	1,3-Dichlorobenzene	2300	
106-46-7	1,4-Dichlorobenzene	2300	
95-50-1	1,2-Dichlorobenzene	2500	
96-12-8	1,2-Dibromo-3-chloropropane	3100	
120-82-1	1,2,4-Trichlorobenzene	2500	
87-61-6	1,2,3-Trichlorobenzene	2700	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1700	
123-91-1	1,4-Dioxane	58000	
110-82-7	Cyclohexane	1700	
79-20-9	Methyl acetate	3200	
108-87-2	Methylcyclohexane	1700	

2B - FORM II VOA-2

WATER VOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2612 Mod. Ref No.: SDG No.: SL2612

Level: (TRACE or LOW) LOW

	CLIENT SAMPLE NO.	VDMC1 (DBFM) #	VDMC2 (DCE) #	VDMC3 (TOL) #	VDMC4 (BFB) #				TOT OUT
01	LCS-69954	97	93	112	105				0
02	MB-69954	95	88	113	103				0
03	TRIP BLANK	97	90	112	102				0
04	MW-4(121912)	96	88	114	104				0

		QC LIMITS
VDMC1	(DBFM) Dibromofluoromethane	(85-115)
VDMC2	(DCE) = 1,2-Dichloroethane-d4	(70-120)
VDMC3	(TOL) = Toluene-d8	(85-120)
VDMC4	(BFB) = Bromofluorobenzene	(75-120)

Column to be used to flag recovery values

* Values outside of contract required QC limits

som12.12.17.A

2D - FORM II VOA-4

SOIL VOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2612 Mod. Ref No.: SDG No.: SL2612

Level: (LOW/MED) LOW

	CLIENT SAMPLE NO.	VDMC1 (DBFM) #	VDMC2 (DCE) #	VDMC3 (TOL) #	VDMC4 (BFB) #				TOT OUT
01	LCS-69924	99	103	99	101				0
02	MB-69924	100	99	100	101				0
03	SB-12(6-7)	101	100	100	100				0
04	SB-12(8-9)	101	101	102	94				0
05	SB-12(10-11)	103	102	105	92				0
06	SB-13(7-8)	103	108	100	100				0
07	SB-13(5-6)	102	103	99	100				0
08	SB-13(8-9)	100	102	100	99				0
09	SB-13(9-10)	101	107	100	100				0
10	SB-13(10-11)	100	101	100	99				0
11	DUP-A	100	102	100	100				0
12	SB-14(0-1)	100	103	102	101				0
13	SB-14(5-6)	101	105	101	99				0
14	SB-14(7-8)	102	103	101	100				0
15	SB-14(8-9)	103	104	100	101				0
16	LCS-69943	98	99	104	101				0
17	MB-69943	100	96	102	103				0
18	SB-12(9-10)	102	95	102	100				0
19	SB-14(2-3)	102	102	101	100				0
20	SB-14(0-1)DL	97	95	104	100				0

		QC LIMITS
VDMC1	(DBFM) Dibromofluoromethane	(76-128)
VDMC2	(DCE) = 1,2-Dichloroethane-d4	(88-110)
VDMC3	(TOL) = Toluene-d8	(85-115)
VDMC4	(BFB) = Bromofluorobenzene	(85-120)

Column to be used to flag recovery values

* Values outside of contract required QC limits

som12.12.17.A

2D - FORM II VOA-4

SOIL VOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2612 Mod. Ref No.: SDG No.: SL2612

Level: (LOW/MED) MED

	CLIENT SAMPLE NO.	VDMC1 (DBFM) #	VDMC2 (DCE) #	VDMC3 (TOL) #	VDMC4 (BFB) #				TOT OUT
01	LCS-69959	93	100	99	98				0
02	MB-69959	94	98	96	95				0
03	SB-13(9-10)ME	91	101	86	97				0
04	SB-13(10-11)ME	89	100	100	97				0
05	DUP-AME	84	99	100	95				0
06	LCS-69978	100	101	100	98				0
07	MB-69978	98	97	100	95				0
08	SB-12(8-9)ME	98	102	101	96				0

		QC LIMITS
VDMC1	(DBFM) Dibromofluoromethane	(76-128)
VDMC2	(DCE) = 1,2-Dichloroethane-d4	(88-110)
VDMC3	(TOL) = Toluene-d8	(85-115)
VDMC4	(BFB) = Bromofluorobenzene	(85-120)

Column to be used to flag recovery values

* Values outside of contract required QC limits

som12.12.17.A

3 - FORM III
SOIL LABORATORY CONTROL
SAMPLE RECOVERY

CLIENT SAMPLE NO.
LCS-69924

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2612 Mod. Ref No.: SDG No.: SL2612

Lab Sample ID: LCS-69924 LCS Lot No.:

Date Extracted: 12/26/2012 Date Analyzed (1): 12/26/2012

COMPOUND	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS %REC	#	QC. LIMITS REC.
Dichlorodifluoromethane	50.0000	0.0000	57.7834	116		35 - 135
Chloromethane	50.0000	0.0000	54.6411	109		50 - 130
Vinyl chloride	50.0000	0.0000	55.4453	111		60 - 125
Bromomethane	50.0000	0.0000	52.1332	104		30 - 160
Chloroethane	50.0000	0.0000	54.1335	108		40 - 155
Trichlorofluoromethane	50.0000	0.0000	58.1286	116		25 - 185
1,1-Dichloroethene	50.0000	0.0000	49.7812	100		65 - 135
Acetone	50.0000	0.0000	62.3984	125		20 - 160
Carbon disulfide	50.0000	0.0000	54.2207	108		45 - 160
Methylene chloride	50.0000	0.0000	49.2687	99		55 - 140
trans-1,2-Dichloroethene	50.0000	0.0000	54.9647	110		65 - 135
Methyl tert-butyl ether	50.0000	0.0000	50.8592	102		75 - 126
1,1-Dichloroethane	50.0000	0.0000	54.1336	108		75 - 125
2-Butanone	50.0000	0.0000	60.1764	120		30 - 160
cis-1,2-Dichloroethene	50.0000	0.0000	54.5961	109		65 - 125
Bromochloromethane	50.0000	0.0000	50.6302	101		70 - 125
Chloroform	50.0000	0.0000	50.8366	102		70 - 125
1,1,1-Trichloroethane	50.0000	0.0000	56.2719	113		70 - 135
Carbon tetrachloride	50.0000	0.0000	58.1277	116		65 - 135
1,2-Dichloroethane	50.0000	0.0000	51.5966	103		70 - 135
Benzene	50.0000	0.0000	53.7460	107		75 - 125
Trichloroethene	50.0000	0.0000	55.7427	111		75 - 125
1,2-Dichloropropane	50.0000	0.0000	50.8752	102		70 - 120
Bromodichloromethane	50.0000	0.0000	52.7335	105		70 - 130
cis-1,3-Dichloropropene	50.0000	0.0000	53.5523	107		70 - 125
4-Methyl-2-pentanone	50.0000	0.0000	50.2448	100		45 - 145
Toluene	50.0000	0.0000	54.7597	110		70 - 125
trans-1,3-Dichloropropene	50.0000	0.0000	53.8981	108		65 - 125
1,1,2-Trichloroethane	50.0000	0.0000	50.3068	101		60 - 125
Tetrachloroethene	50.0000	0.0000	53.3891	107		65 - 140
2-Hexanone	50.0000	0.0000	55.9897	112		45 - 145
Dibromochloromethane	50.0000	0.0000	50.8196	102		65 - 130
1,2-Dibromoethane	50.0000	0.0000	50.0112	100		70 - 125
Chlorobenzene	50.0000	0.0000	52.6645	105		75 - 125
Ethylbenzene	50.0000	0.0000	54.1709	108		75 - 125
m,p-Xylene	100.0000	0.0000	109.1248	109		80 - 125
o-Xylene	50.0000	0.0000	52.4538	105		75 - 125
Styrene	50.0000	0.0000	53.2465	106		75 - 125
Bromoform	50.0000	0.0000	50.4281	101		55 - 135
Isopropylbenzene	50.0000	0.0000	55.5752	111		75 - 130
1,1,2,2-Tetrachloroethane	50.0000	0.0000	47.1242	94		55 - 130
1,3-Dichlorobenzene	50.0000	0.0000	52.8980	106		70 - 125
1,4-Dichlorobenzene	50.0000	0.0000	52.4762	105		70 - 125
1,2-Dichlorobenzene	50.0000	0.0000	50.9012	102		75 - 120

3 - FORM III
SOIL LABORATORY CONTROL
SAMPLE RECOVERY

CLIENT SAMPLE NO.
LCS-69924

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2612 Mod. Ref No.: SDG No.: SL2612

Lab Sample ID: LCS-69924 LCS Lot No.:

Date Extracted: 12/26/2012 Date Analyzed (1): 12/26/2012

COMPOUND	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS %REC	#	QC. LIMITS REC.
1,2-Dibromo-3-chloropropan	50.0000	0.0000	47.1087	94		40 - 135
1,2,4-Trichlorobenzene	50.0000	0.0000	56.8848	114		65 - 130
1,2,3-Trichlorobenzene	50.0000	0.0000	52.6986	105		60 - 135
1,1,2-Trichloro-1,2,2-trif	50.0000	0.0000	58.1286	116		70 - 130
1,4-Dioxane	1000.0000	0.0000	1025.3070	103		70 - 130
Cyclohexane	50.0000	0.0000	56.7199	113		70 - 130
Methyl acetate	50.0000	0.0000	45.6732	91		70 - 130
Methylcyclohexane	50.0000	0.0000	56.8945	114		70 - 130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 0 out of 52 outside limits

COMMENTS:

3 - FORM III
SOIL LABORATORY CONTROL
SAMPLE RECOVERY

CLIENT SAMPLE NO.
LCS-69943

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2612 Mod. Ref No.: SDG No.: SL2612

Lab Sample ID: LCS-69943 LCS Lot No.:

Date Extracted: 12/27/2012 Date Analyzed (1): 12/27/2012

COMPOUND	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS %REC	#	QC. LIMITS REC.
Dichlorodifluoromethane	50.0000	0.0000	47.2111	94		35 - 135
Chloromethane	50.0000	0.0000	50.4332	101		50 - 130
Vinyl chloride	50.0000	0.0000	50.8376	102		60 - 125
Bromomethane	50.0000	0.0000	51.2763	103		30 - 160
Chloroethane	50.0000	0.0000	51.9754	104		40 - 155
Trichlorofluoromethane	50.0000	0.0000	51.3902	103		25 - 185
1,1-Dichloroethene	50.0000	0.0000	50.8905	102		65 - 135
Acetone	50.0000	0.0000	43.6206	87		20 - 160
Carbon disulfide	50.0000	0.0000	50.1894	100		45 - 160
Methylene chloride	50.0000	0.0000	46.1528	92		55 - 140
trans-1,2-Dichloroethene	50.0000	0.0000	49.9897	100		65 - 135
Methyl tert-butyl ether	50.0000	0.0000	48.8601	98		75 - 126
1,1-Dichloroethane	50.0000	0.0000	50.0635	100		75 - 125
2-Butanone	50.0000	0.0000	50.9416	102		30 - 160
cis-1,2-Dichloroethene	50.0000	0.0000	49.4345	99		65 - 125
Bromochloromethane	50.0000	0.0000	47.9664	96		70 - 125
Chloroform	50.0000	0.0000	48.5253	97		70 - 125
1,1,1-Trichloroethane	50.0000	0.0000	53.3730	107		70 - 135
Carbon tetrachloride	50.0000	0.0000	52.7679	106		65 - 135
1,2-Dichloroethane	50.0000	0.0000	49.1451	98		70 - 135
Benzene	50.0000	0.0000	50.1541	100		75 - 125
Trichloroethene	50.0000	0.0000	51.4254	103		75 - 125
1,2-Dichloropropane	50.0000	0.0000	49.7329	99		70 - 120
Bromodichloromethane	50.0000	0.0000	49.7767	100		70 - 130
cis-1,3-Dichloropropene	50.0000	0.0000	50.1206	100		70 - 125
4-Methyl-2-pentanone	50.0000	0.0000	50.8170	102		45 - 145
Toluene	50.0000	0.0000	50.4563	101		70 - 125
trans-1,3-Dichloropropene	50.0000	0.0000	49.4312	99		65 - 125
1,1,2-Trichloroethane	50.0000	0.0000	49.5552	99		60 - 125
Tetrachloroethene	50.0000	0.0000	51.3134	103		65 - 140
2-Hexanone	50.0000	0.0000	51.4065	103		45 - 145
Dibromochloromethane	50.0000	0.0000	50.7014	101		65 - 130
1,2-Dibromoethane	50.0000	0.0000	50.0289	100		70 - 125
Chlorobenzene	50.0000	0.0000	50.9886	102		75 - 125
Ethylbenzene	50.0000	0.0000	53.3265	107		75 - 125
m,p-Xylene	100.0000	0.0000	103.4136	103		80 - 125
o-Xylene	50.0000	0.0000	51.9101	104		75 - 125
Styrene	50.0000	0.0000	51.3481	103		75 - 125
Bromoform	50.0000	0.0000	52.5291	105		55 - 135
Isopropylbenzene	50.0000	0.0000	53.4867	107		75 - 130
1,1,2,2-Tetrachloroethane	50.0000	0.0000	50.1957	100		55 - 130
1,3-Dichlorobenzene	50.0000	0.0000	51.0914	102		70 - 125
1,4-Dichlorobenzene	50.0000	0.0000	49.9466	100		70 - 125
1,2-Dichlorobenzene	50.0000	0.0000	49.3009	99		75 - 120

3 - FORM III
SOIL LABORATORY CONTROL
SAMPLE RECOVERY

CLIENT SAMPLE NO.
LCS-69943

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2612 Mod. Ref No.: SDG No.: SL2612

Lab Sample ID: LCS-69943 LCS Lot No.:

Date Extracted: 12/27/2012 Date Analyzed (1): 12/27/2012

COMPOUND	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS %REC	#	QC. LIMITS REC.
1,2-Dibromo-3-chloropropan	50.0000	0.0000	51.7226	103		40 - 135
1,2,4-Trichlorobenzene	50.0000	0.0000	50.0966	100		65 - 130
1,2,3-Trichlorobenzene	50.0000	0.0000	50.3390	101		60 - 135
1,1,2-Trichloro-1,2,2-trif	50.0000	0.0000	45.9700	92		70 - 130
1,4-Dioxane	1000.0000	0.0000	898.6189	90		70 - 130
Cyclohexane	50.0000	0.0000	47.0163	94		70 - 130
Methyl acetate	50.0000	0.0000	45.2162	90		70 - 130
Methylcyclohexane	50.0000	0.0000	46.2320	92		70 - 130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 0 out of 52 outside limits

COMMENTS:

3 - FORM III
WATER LABORATORY CONTROL
SAMPLE RECOVERY

CLIENT SAMPLE NO.
LCS-69954

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2612 Mod. Ref No.: SDG No.: SL2612

Lab Sample ID: LCS-69954 LCS Lot No.:

Date Extracted: 12/28/2012 Date Analyzed (1): 12/28/2012

COMPOUND	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS %REC	#	QC. LIMITS REC.
Dichlorodifluoromethane	50.0000	0.0000	23.6320	47		30 - 155
Chloromethane	50.0000	0.0000	29.8703	60		40 - 125
Vinyl chloride	50.0000	0.0000	31.0619	62		50 - 145
Bromomethane	50.0000	0.0000	29.5938	59		30 - 145
Chloroethane	50.0000	0.0000	33.4009	67		60 - 135
Trichlorofluoromethane	50.0000	0.0000	40.0416	80		60 - 145
1,1-Dichloroethene	50.0000	0.0000	41.5834	83		70 - 130
Acetone	50.0000	0.0000	44.1285	88		40 - 140
Carbon disulfide	50.0000	0.0000	50.7436	101		35 - 160
Methylene chloride	50.0000	0.0000	48.3171	97		55 - 140
trans-1,2-Dichloroethene	50.0000	0.0000	45.6660	91		60 - 140
Methyl tert-butyl ether	50.0000	0.0000	41.7033	83		65 - 125
1,1-Dichloroethane	50.0000	0.0000	46.8196	94		70 - 135
2-Butanone	50.0000	0.0000	43.6367	87		30 - 150
cis-1,2-Dichloroethene	50.0000	0.0000	45.7220	91		70 - 125
Bromochloromethane	50.0000	0.0000	41.7675	84		65 - 130
Chloroform	50.0000	0.0000	45.9939	92		65 - 135
1,1,1-Trichloroethane	50.0000	0.0000	43.4021	87		65 - 130
Carbon tetrachloride	50.0000	0.0000	41.8442	84		65 - 140
1,2-Dichloroethane	50.0000	0.0000	46.9362	94		70 - 130
Benzene	50.0000	0.0000	46.9914	94		80 - 120
Trichloroethene	50.0000	0.0000	41.5380	83		70 - 125
1,2-Dichloropropane	50.0000	0.0000	46.2820	93		75 - 125
Bromodichloromethane	50.0000	0.0000	45.3855	91		75 - 120
cis-1,3-Dichloropropene	50.0000	0.0000	46.4642	93		70 - 130
4-Methyl-2-pentanone	50.0000	0.0000	38.6839	77		60 - 135
Toluene	50.0000	0.0000	48.2451	96		75 - 120
trans-1,3-Dichloropropene	50.0000	0.0000	44.8811	90		55 - 140
1,1,2-Trichloroethane	50.0000	0.0000	43.1129	86		75 - 125
Tetrachloroethene	50.0000	0.0000	41.6001	83		45 - 150
2-Hexanone	50.0000	0.0000	48.7221	97		55 - 130
Dibromochloromethane	50.0000	0.0000	46.9846	94		60 - 135
1,2-Dibromoethane	50.0000	0.0000	47.9529	96		80 - 120
Chlorobenzene	50.0000	0.0000	50.5825	101		80 - 120
Ethylbenzene	50.0000	0.0000	52.7877	106		75 - 125
m,p-Xylene	100.0000	0.0000	104.0466	104		75 - 130
o-Xylene	50.0000	0.0000	51.3341	103		80 - 120
Styrene	50.0000	0.0000	51.1715	102		65 - 135
Bromoform	50.0000	0.0000	41.0353	82		70 - 130
Isopropylbenzene	50.0000	0.0000	51.6980	103		75 - 125
1,1,2,2-Tetrachloroethane	50.0000	0.0000	50.4513	101		65 - 130
1,3-Dichlorobenzene	50.0000	0.0000	50.6668	101		75 - 125
1,4-Dichlorobenzene	50.0000	0.0000	49.2273	98		75 - 125
1,2-Dichlorobenzene	50.0000	0.0000	48.6875	97		70 - 120

3 - FORM III
WATER LABORATORY CONTROL
SAMPLE RECOVERY

CLIENT SAMPLE NO.
LCS-69954

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2612 Mod. Ref No.: SDG No.: SL2612

Lab Sample ID: LCS-69954 LCS Lot No.:

Date Extracted: 12/28/2012 Date Analyzed (1): 12/28/2012

COMPOUND	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS %REC	#	QC. LIMITS REC.
1,2-Dibromo-3-chloropropan	50.0000	0.0000	43.3129	87		50 - 130
1,2,4-Trichlorobenzene	50.0000	0.0000	44.3184	89		65 - 135
1,2,3-Trichlorobenzene	50.0000	0.0000	40.5332	81		55 - 140
1,1,2-Trichloro-1,2,2-trif	50.0000	0.0000	36.4942	73		70 - 130
1,4-Dioxane	1000.0000	0.0000	1177.7746	118		70 - 130
Cyclohexane	50.0000	0.0000	39.6486	79		70 - 130
Methyl acetate	50.0000	0.0000	37.8672	76		70 - 130
Methylcyclohexane	50.0000	0.0000	45.5345	91		70 - 130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 0 out of 52 outside limits

COMMENTS:

3 - FORM III
SOIL LABORATORY CONTROL
SAMPLE RECOVERY

CLIENT SAMPLE NO.
LCS-69959

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2612 Mod. Ref No.: SDG No.: SL2612

Lab Sample ID: LCS-69959 LCS Lot No.:

Date Extracted: 12/28/2012 Date Analyzed (1): 12/28/2012

COMPOUND	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS %REC	#	QC. LIMITS REC.
Dichlorodifluoromethane	2500.0000	0.0000	1685.0463	67		35 - 135
Chloromethane	2500.0000	0.0000	2209.5313	88		50 - 130
Vinyl chloride	2500.0000	0.0000	1746.1745	70		60 - 125
Bromomethane	2500.0000	0.0000	1934.1574	77		30 - 160
Chloroethane	2500.0000	0.0000	1633.8130	65		40 - 155
Trichlorofluoromethane	2500.0000	0.0000	1795.2408	72		25 - 185
1,1-Dichloroethene	2500.0000	0.0000	1916.7485	77		65 - 135
Acetone	2500.0000	0.0000	2753.8433	110		20 - 160
Carbon disulfide	2500.0000	0.0000	1965.3399	79		45 - 160
Methylene chloride	2500.0000	0.0000	1886.1179	75		55 - 140
trans-1,2-Dichloroethene	2500.0000	0.0000	2034.9260	81		65 - 135
Methyl tert-butyl ether	2500.0000	0.0000	2122.0054	85		75 - 126
1,1-Dichloroethane	2500.0000	0.0000	2100.1975	84		75 - 125
2-Butanone	2500.0000	0.0000	2622.4283	105		30 - 160
cis-1,2-Dichloroethene	2500.0000	0.0000	2138.3782	86		65 - 125
Bromochloromethane	2500.0000	0.0000	2007.4530	80		70 - 125
Chloroform	2500.0000	0.0000	2007.9122	80		70 - 125
1,1,1-Trichloroethane	2500.0000	0.0000	1972.7450	79		70 - 135
Carbon tetrachloride	2500.0000	0.0000	1935.6884	77		65 - 135
1,2-Dichloroethane	2500.0000	0.0000	2071.4346	83		70 - 135
Benzene	2500.0000	0.0000	2224.6235	89		75 - 125
Trichloroethene	2500.0000	0.0000	2350.2832	94		75 - 125
1,2-Dichloropropane	2500.0000	0.0000	2384.6441	95		70 - 120
Bromodichloromethane	2500.0000	0.0000	2251.4462	90		70 - 130
cis-1,3-Dichloropropene	2500.0000	0.0000	2579.6081	103		70 - 125
4-Methyl-2-pentanone	2500.0000	0.0000	2872.2609	115		45 - 145
Toluene	2500.0000	0.0000	2491.4510	100		70 - 125
trans-1,3-Dichloropropene	2500.0000	0.0000	2599.6335	104		65 - 125
1,1,2-Trichloroethane	2500.0000	0.0000	2659.2200	106		60 - 125
Tetrachloroethene	2500.0000	0.0000	1718.5540	69		65 - 140
2-Hexanone	2500.0000	0.0000	2773.3641	111		45 - 145
Dibromochloromethane	2500.0000	0.0000	2126.0492	85		65 - 130
1,2-Dibromoethane	2500.0000	0.0000	2290.5038	92		70 - 125
Chlorobenzene	2500.0000	0.0000	2243.3355	90		75 - 125
Ethylbenzene	2500.0000	0.0000	2282.4998	91		75 - 125
m,p-Xylene	5000.0000	0.0000	4538.9762	91		80 - 125
o-Xylene	2500.0000	0.0000	2191.8256	88		75 - 125
Styrene	2500.0000	0.0000	2145.9666	86		75 - 125
Bromoform	2500.0000	0.0000	2139.6732	86		55 - 135
Isopropylbenzene	2500.0000	0.0000	2253.3932	90		75 - 130
1,1,2,2-Tetrachloroethane	2500.0000	0.0000	2695.5783	108		55 - 130
1,3-Dichlorobenzene	2500.0000	0.0000	2160.6336	86		70 - 125
1,4-Dichlorobenzene	2500.0000	0.0000	2181.0246	87		70 - 125
1,2-Dichlorobenzene	2500.0000	0.0000	2157.1070	86		75 - 120

3 - FORM III
SOIL LABORATORY CONTROL
SAMPLE RECOVERY

CLIENT SAMPLE NO.
LCS-69959

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2612 Mod. Ref No.: SDG No.: SL2612

Lab Sample ID: LCS-69959 LCS Lot No.:

Date Extracted: 12/28/2012 Date Analyzed (1): 12/28/2012

COMPOUND	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS %REC	#	QC. LIMITS REC.
1,2-Dibromo-3-chloropropan	2500.0000	0.0000	2377.9476	95		40 - 135
1,2,4-Trichlorobenzene	2500.0000	0.0000	2103.8034	84		65 - 130
1,2,3-Trichlorobenzene	2500.0000	0.0000	2112.6075	85		60 - 135
1,1,2-Trichloro-1,2,2-trif	2500.0000	0.0000	2148.9231	86		70 - 130
1,4-Dioxane	50000.0000	0.0000	61571.4728	123		70 - 130
Cyclohexane	2500.0000	0.0000	2293.2089	92		70 - 130
Methyl acetate	2500.0000	0.0000	2488.4501	100		70 - 130
Methylcyclohexane	2500.0000	0.0000	2498.2394	100		70 - 130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 0 out of 52 outside limits

COMMENTS:

3 - FORM III
SOIL LABORATORY CONTROL
SAMPLE RECOVERY

CLIENT SAMPLE NO.
LCS-69978

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2612 Mod. Ref No.: SDG No.: SL2612

Lab Sample ID: LCS-69978 LCS Lot No.:

Date Extracted: 01/02/2013 Date Analyzed (1): 01/02/2013

COMPOUND	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS %REC	#	QC. LIMITS REC.
Dichlorodifluoromethane	2500.0000	0.0000	1582.4578	63		35 - 135
Chloromethane	2500.0000	0.0000	2722.0456	109		50 - 130
Vinyl chloride	2500.0000	0.0000	2243.9522	90		60 - 125
Bromomethane	2500.0000	0.0000	2904.4352	116		30 - 160
Chloroethane	2500.0000	0.0000	2542.4220	102		40 - 155
Trichlorofluoromethane	2500.0000	0.0000	1768.9280	71		25 - 185
1,1-Dichloroethene	2500.0000	0.0000	2155.4946	86		65 - 135
Acetone	2500.0000	0.0000	2859.3803	114		20 - 160
Carbon disulfide	2500.0000	0.0000	2286.4592	91		45 - 160
Methylene chloride	2500.0000	0.0000	2836.5994	113		55 - 140
trans-1,2-Dichloroethene	2500.0000	0.0000	2511.8799	100		65 - 135
Methyl tert-butyl ether	2500.0000	0.0000	3181.8694	127	*	75 - 126
1,1-Dichloroethane	2500.0000	0.0000	2819.5743	113		75 - 125
2-Butanone	2500.0000	0.0000	2993.8477	120		30 - 160
cis-1,2-Dichloroethene	2500.0000	0.0000	2811.7894	112		65 - 125
Bromochloromethane	2500.0000	0.0000	3063.6110	123		70 - 125
Chloroform	2500.0000	0.0000	2771.1883	111		70 - 125
1,1,1-Trichloroethane	2500.0000	0.0000	2308.8710	92		70 - 135
Carbon tetrachloride	2500.0000	0.0000	2113.3758	85		65 - 135
1,2-Dichloroethane	2500.0000	0.0000	3004.2736	120		70 - 135
Benzene	2500.0000	0.0000	2731.1673	109		75 - 125
Trichloroethene	2500.0000	0.0000	2032.7653	81		75 - 125
1,2-Dichloropropane	2500.0000	0.0000	2887.6513	116		70 - 120
Bromodichloromethane	2500.0000	0.0000	3002.4922	120		70 - 130
cis-1,3-Dichloropropene	2500.0000	0.0000	3054.7749	122		70 - 125
4-Methyl-2-pentanone	2500.0000	0.0000	3039.7552	122		45 - 145
Toluene	2500.0000	0.0000	2520.5566	101		70 - 125
trans-1,3-Dichloropropene	2500.0000	0.0000	3127.1957	125	*	65 - 125
1,1,2-Trichloroethane	2500.0000	0.0000	3058.7321	122		60 - 125
Tetrachloroethene	2500.0000	0.0000	2045.7093	82		65 - 140
2-Hexanone	2500.0000	0.0000	3077.2276	123		45 - 145
Dibromochloromethane	2500.0000	0.0000	3116.1303	125		65 - 130
1,2-Dibromoethane	2500.0000	0.0000	3020.1465	121		70 - 125
Chlorobenzene	2500.0000	0.0000	2526.9071	101		75 - 125
Ethylbenzene	2500.0000	0.0000	2254.7459	90		75 - 125
m,p-Xylene	5000.0000	0.0000	4460.7731	89		80 - 125
o-Xylene	2500.0000	0.0000	2429.2965	97		75 - 125
Styrene	2500.0000	0.0000	2521.4996	101		75 - 125
Bromoform	2500.0000	0.0000	3149.9838	126		55 - 135
Isopropylbenzene	2500.0000	0.0000	2101.6682	84		75 - 130
1,1,2,2-Tetrachloroethane	2500.0000	0.0000	2956.6028	118		55 - 130
1,3-Dichlorobenzene	2500.0000	0.0000	2316.0500	93		70 - 125
1,4-Dichlorobenzene	2500.0000	0.0000	2254.0909	90		70 - 125
1,2-Dichlorobenzene	2500.0000	0.0000	2494.3659	100		75 - 120

3 - FORM III
SOIL LABORATORY CONTROL
SAMPLE RECOVERY

CLIENT SAMPLE NO.
LCS-69978

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2612 Mod. Ref No.: SDG No.: SL2612

Lab Sample ID: LCS-69978 LCS Lot No.:

Date Extracted: 01/02/2013 Date Analyzed (1): 01/02/2013

COMPOUND	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS %REC	#	QC. LIMITS REC.
1,2-Dibromo-3-chloropropan	2500.0000	0.0000	3125.3404	125		40 - 135
1,2,4-Trichlorobenzene	2500.0000	0.0000	2528.1368	101		65 - 130
1,2,3-Trichlorobenzene	2500.0000	0.0000	2731.8653	109		60 - 135
1,1,2-Trichloro-1,2,2-trif	2500.0000	0.0000	1686.3149	67	*	70 - 130
1,4-Dioxane	50000.0000	0.0000	58459.3672	117		70 - 130
Cyclohexane	2500.0000	0.0000	1733.9750	69	*	70 - 130
Methyl acetate	2500.0000	0.0000	3247.4148	130		70 - 130
Methylcyclohexane	2500.0000	0.0000	1695.8990	68	*	70 - 130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 5 out of 52 outside limits

COMMENTS:

4A - FORM IV VOA

VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

MB-69954

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2612 Mod. Ref No.: SDG No.: SL2612

Lab File ID: V1M0043.D Lab Sample ID: MB-69954

Instrument ID: V1

Matrix: (SOIL/SED/WATER) WATER Date Analyzed: 12/28/2012

Level: (TRACE or LOW/MED) LOW Time Analyzed: 11:16

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	LCS-69954	LCS-69954	V1M0042.D	10:28
02	TRIP BLANK	L2612-17A	V1M0045.D	12:04
03	MW-4(121912)	L2612-16A	V1M0052.D	15:15

COMMENTS:

som12.12.17.A

4A - FORM IV VOA

VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

MB-69924

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2612 Mod. Ref No.: SDG No.: SL2612

Lab File ID: V1M9974.D Lab Sample ID: MB-69924

Instrument ID: V1

Matrix: (SOIL/SED/WATER) SOIL Date Analyzed: 12/26/2012

Level: (TRACE or LOW/MED) LOW Time Analyzed: 12:30

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	LCS-69924	LCS-69924	V1M9972.D	11:39
02	SB-12(6-7)	L2612-01A	V1M9979.D	15:14
03	SB-12(8-9)	L2612-02A	V1M9980.D	15:38
04	SB-12(10-11)	L2612-04C	V1M9982.D	16:29
05	SB-13(7-8)	L2612-05C	V1M9983.D	16:55
06	SB-13(5-6)	L2612-06A	V1M9984.D	17:21
07	SB-13(8-9)	L2612-07A	V1M9985.D	17:46
08	SB-13(9-10)	L2612-08A	V1M9986.D	18:11
09	SB-13(10-11)	L2612-09A	V1M9987.D	18:37
10	DUP-A	L2612-10A	V1M9988.D	19:02
11	SB-14(0-1)	L2612-11A	V1M9989.D	19:28
12	SB-14(5-6)	L2612-13C	V1M9991.D	20:19
13	SB-14(7-8)	L2612-14A	V1M9994.D	21:35
14	SB-14(8-9)	L2612-15A	V1M9995.D	22:01

COMMENTS:

4A - FORM IV VOA

VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

MB-69943

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2612 Mod. Ref No.: SDG No.: SL2612

Lab File ID: V5O1083.D Lab Sample ID: MB-69943

Instrument ID: V5

Matrix: (SOIL/SED/WATER) SOIL Date Analyzed: 12/27/2012

Level: (TRACE or LOW/MED) LOW Time Analyzed: 13:14

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	LCS-69943	LCS-69943	V5O1082.D	12:18
02	SB-12(9-10)	L2612-03A	V5O1089.D	16:01
03	SB-14(2-3)	L2612-12A	V5O1090.D	16:28
04	SB-14(0-1)DL	L2612-11ADL	V5O1091.D	16:55

COMMENTS:

4A - FORM IV VOA

VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

MB-69959

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2612 Mod. Ref No.: SDG No.: SL2612

Lab File ID: V8B7356.D Lab Sample ID: MB-69959

Instrument ID: V10

Matrix: (SOIL/SED/WATER) SOIL Date Analyzed: 12/28/2012

Level: (TRACE or LOW/MED) MED Time Analyzed: 13:17

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	LCS-69959	LCS-69959	V8B7354.D	12:22
02	SB-13(9-10)ME	L2612-08A	V8B7367.D	19:41
03	SB-13(10-11)ME	L2612-09A	V8B7368.D	20:09
04	DUP-AME	L2612-10A	V8B7369.D	20:36

COMMENTS:

4A - FORM IV VOA

VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

MB-69978

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2612 Mod. Ref No.: SDG No.: SL2612

Lab File ID: V8B7471.D Lab Sample ID: MB-69978

Instrument ID: V10

Matrix: (SOIL/SED/WATER) SOIL Date Analyzed: 01/03/2013

Level: (TRACE or LOW/MED) MED Time Analyzed: 0:25

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	LCS-69978	LCS-69978	V8B7469.D	23:31
02	SB-12(8-9)ME	L2612-02A	V8B7477.D	3:07

COMMENTS:

8A - FORM VIII VOA

VOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2612 Mod. Ref No.: SDG No.: SL2612

GC Column: DB-624 ID: 0.25 (mm) Init. Calib. Date(s): 12/13/2012 12/13/2012

EPA Sample No.(VSTD#####): VSTD0501D Date Analyzed: 12/28/2012

Lab File ID (Standard): V1M0041.D Time Analyzed: 10:04

Instrument ID: V1 Heated Purge: (Y/N) N

		IS1 (S1) AREA	#	RT	#	IS2 (S2) AREA	#	RT	#	IS3 (S3) AREA	#	RT	#
	12 HOUR STD	1969291		4.609		1143470		7.505		403194		10.056	
	UPPER LIMIT	3938582		5.109		2286940		8.005		806388		10.556	
	LOWER LIMIT	984646		4.109		571735		7.005		201597		9.556	
	SAMPLE NO.												
01	LCS-69954	1941680		4.611		1124041		7.497		397960		10.058	
02	MB-69954	1973902		4.618		1133808		7.514		389627		10.055	
03	TRIP BLANK	2002494		4.616		1146052		7.502		391312		10.053	
04	MW-4(121912)	1989825		4.618		1113769		7.504		391896		10.055	

IS1 () = Fluorobenzene
IS2 () = Chlorobenzene-d5
IS3 () = 1,4-Dichlorobenzene-d4
AREA UPPER LIMIT = 200% (Low-Medium Volatiles) and 140% (Trace Volatiles) of internal standard area
AREA LOWER LIMIT = 50% (Low-Medium Volatiles) and 60% (Trace Volatiles) of internal standard area
RT UPPER LIMIT = +0.50 (Low-Medium Volatiles) and +0.33 (Trace Volatiles) minutes of internal standard RT
RT LOWER LIMIT = -0.50 (Low-Medium Volatiles) and -0.33 (Trace Volatiles) minutes of internal standard RT

Column used to flag values outside contract required QC limits with an asterisk.

8A - FORM VIII VOA

VOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2612 Mod. Ref No.: SDG No.: SL2612

GC Column: DB-624 ID: 0.25 (mm) Init. Calib. Date(s): 12/24/2012 12/24/2012

EPA Sample No.(VSTD#####): VSTD0501B Date Analyzed: 12/26/2012

Lab File ID (Standard): V1M9971.D Time Analyzed: 10:59

Instrument ID: V1 Heated Purge: (Y/N) Y

		IS1 (S1) AREA	#	RT	#	IS2 (S2) AREA	#	RT	#	IS3 (S3) AREA	#	RT	#
	12 HOUR STD	1886048		4.6		1062355		7.476		364887		10.037	
	UPPER LIMIT	3772096		5.1		2124710		7.976		729774		10.537	
	LOWER LIMIT	943024		4.1		531178		6.976		182444		9.537	
	SAMPLE NO.												
01	LCS-69924	1852974		4.595		1047913		7.481		366382		10.032	
02	MB-69924	1766382		4.588		990369		7.484		337739		10.035	
03	SB-12(6-7)	1751734		4.610		983672		7.487		339317		10.038	
04	SB-12(8-9)	1675514		4.600		902877		7.486		281987		10.037	
05	SB-12(10-11)	1587984		4.605		832367		7.491		223182		10.042	
06	SB-13(7-8)	1664327		4.600		932296		7.486		319623		10.047	
07	SB-13(5-6)	1610241		4.596		900691		7.492		313578		10.043	
08	SB-13(8-9)	1665142		4.610		927632		7.486		316537		10.047	
09	SB-13(9-10)	1578365		4.608		885496		7.484		302308		10.045	
10	SB-13(10-11)	1366114		4.605		764178		7.481		264102		10.042	
11	DUP-A	1430768		4.615		801154		7.501		279380		10.052	
12	SB-14(0-1)	1508374		4.611		826998		7.487		283331		10.048	
13	SB-14(5-6)	1652717		4.606		918508		7.492		308584		10.053	
14	SB-14(7-8)	1634191		4.605		904686		7.491		308744		10.042	
15	SB-14(8-9)	1600747		4.609		898323		7.495		304255		10.046	

IS1 () = Fluorobenzene
IS2 () = Chlorobenzene-d5
IS3 () = 1,4-Dichlorobenzene-d4
AREA UPPER LIMIT = 200% (Low-Medium Volatiles) and 140% (Trace Volatiles) of internal standard area
AREA LOWER LIMIT = 50% (Low-Medium Volatiles) and 60% (Trace Volatiles) of internal standard area
RT UPPER LIMIT = +0.50 (Low-Medium Volatiles) and +0.33 (Trace Volatiles) minutes of internal standard RT
RT LOWER LIMIT = -0.50 (Low-Medium Volatiles) and -0.33 (Trace Volatiles) minutes of internal standard RT

Column used to flag values outside contract required QC limits with an asterisk.

8A - FORM VIII VOA

VOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2612 Mod. Ref No.: SDG No.: SL2612

GC Column: DB-624 ID: 0.25 (mm) Init. Calib. Date(s): 12/19/2012 12/19/2012

EPA Sample No.(VSTD#####): VSTD0505H Date Analyzed: 12/27/2012

Lab File ID (Standard): V5O1081.D Time Analyzed: 11:51

Instrument ID: V5 Heated Purge: (Y/N) Y

		IS1 (S1) AREA	#	RT	#	IS2 (S2) AREA	#	RT	#	IS3 (S3) AREA	#	RT	#
	12 HOUR STD	917613		4.472		568702		7.666		236408		10.733	
	UPPER LIMIT	1835226		4.972		1137404		8.166		472816		11.233	
	LOWER LIMIT	458807		3.972		284351		7.166		118204		10.233	
	SAMPLE NO.												
01	LCS-69943	857430		4.471		534800		7.666		226182		10.732	
02	MB-69943	922087		4.474		582361		7.669		246759		10.724	
03	SB-12(9-10)	920075		4.471		592276		7.665		247315		10.732	
04	SB-14(2-3)	870019		4.466		568686		7.660		236705		10.727	
05	SB-14(0-1)DL	1003715		4.476		613060		7.659		244925		10.726	

IS1 () = Fluorobenzene
IS2 () = Chlorobenzene-d5
IS3 () = 1,4-Dichlorobenzene-d4
AREA UPPER LIMIT = 200% (Low-Medium Volatiles) and 140% (Trace Volatiles) of internal standard area
AREA LOWER LIMIT = 50% (Low-Medium Volatiles) and 60% (Trace Volatiles) of internal standard area
RT UPPER LIMIT = +0.50 (Low-Medium Volatiles) and +0.33 (Trace Volatiles) minutes of internal standard RT
RT LOWER LIMIT = -0.50 (Low-Medium Volatiles) and -0.33 (Trace Volatiles) minutes of internal standard RT

Column used to flag values outside contract required QC limits with an asterisk.

8A - FORM VIII VOA

VOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2612 Mod. Ref No.: SDG No.: SL2612

GC Column: DB-624 ID: 0.25 (mm) Init. Calib. Date(s): 12/18/2012 12/19/2012

EPA Sample No.(VSTD#####): VSTD05010R Date Analyzed: 12/28/2012

Lab File ID (Standard): V8B7352.D Time Analyzed: 10:52

Instrument ID: V10 Heated Purge: (Y/N) N

		IS1 (S1) AREA	#	RT	#	IS2 (S2) AREA	#	RT	#	IS3 (S3) AREA	#	RT	#
	12 HOUR STD	835650		5.3		685835		8.291		321776		10.782	
	UPPER LIMIT	1671300		5.8		1371670		8.791		643552		11.282	
	LOWER LIMIT	417825		4.8		342918		7.791		160888		10.282	
	SAMPLE NO.												
01	LCS-69959	763665		5.301		726106		8.288		353681		10.783	
02	MB-69959	773421		5.304		698003		8.291		329027		10.782	
03	SB-13(9-10)ME	802518		5.300		784902		8.291		371554		10.783	
04	SB-13(10-11)ME	941618		5.300		787288		8.291		370817		10.782	
05	DUP-AME	971097		5.300		814867		8.291		375368		10.783	

IS1 () = Fluorobenzene
IS2 () = Chlorobenzene-d5
IS3 () = 1,4-Dichlorobenzene-d4
AREA UPPER LIMIT = 200% (Low-Medium Volatiles) and 140% (Trace Volatiles) of internal standard area
AREA LOWER LIMIT = 50% (Low-Medium Volatiles) and 60% (Trace Volatiles) of internal standard area
RT UPPER LIMIT = +0.50 (Low-Medium Volatiles) and +0.33 (Trace Volatiles) minutes of internal standard RT
RT LOWER LIMIT = -0.50 (Low-Medium Volatiles) and -0.33 (Trace Volatiles) minutes of internal standard RT

Column used to flag values outside contract required QC limits with an asterisk.

8A - FORM VIII VOA

VOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2612 Mod. Ref No.: SDG No.: SL2612

GC Column: DB-624 ID: 0.25 (mm) Init. Calib. Date(s): 01/02/2013 01/02/2013

EPA Sample No.(VSTD#####): VSTD05010V Date Analyzed: 01/02/2013

Lab File ID (Standard): V8B7463.D Time Analyzed: 20:48

Instrument ID: V10 Heated Purge: (Y/N) N

		IS1 (S1) AREA	#	RT	#	IS2 (S2) AREA	#	RT	#	IS3 (S3) AREA	#	RT	#
	12 HOUR STD	980102		5.301		821058		8.291		398659		10.783	
	UPPER LIMIT	1960204		5.801		1642116		8.791		797318		11.283	
	LOWER LIMIT	490051		4.801		410529		7.791		199330		10.283	
	SAMPLE NO.												
01	LCS-69978	998826		5.304		844394		8.291		400324		10.783	
02	MB-69978	1006064		5.300		832625		8.291		373350		10.783	
03	SB-12(8-9)ME	1025368		5.304		837230		8.287		369716		10.783	

IS1 () = Fluorobenzene
IS2 () = Chlorobenzene-d5
IS3 () = 1,4-Dichlorobenzene-d4
AREA UPPER LIMIT = 200% (Low-Medium Volatiles) and 140% (Trace Volatiles) of internal standard area
AREA LOWER LIMIT = 50% (Low-Medium Volatiles) and 60% (Trace Volatiles) of internal standard area
RT UPPER LIMIT = +0.50 (Low-Medium Volatiles) and +0.33 (Trace Volatiles) minutes of internal standard RT
RT LOWER LIMIT = -0.50 (Low-Medium Volatiles) and -0.33 (Trace Volatiles) minutes of internal standard RT

Column used to flag values outside contract required QC limits with an asterisk.

* Semivolatile Organics *

REPORT NARRATIVE

Spectrum Analytical, Inc. Featuring Hanibal Technology, RI Division.

Client : ARCADIS U.S., Inc.

Project: S&S Dry Cleaners & Dyers

Laboratory Workorder / SDG #: L2612

SW846 8270D, SVOA by GC-MS

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code: SW846 8270D

IV. PREPARATION

Soil Samples were prepared following procedures in laboratory test code: SW3550

V. INSTRUMENTATION

The following instrumentation was used

Instrument Code: S6
Instrument Type: GCMS-Semi
Description: HP7890A
Manufacturer: Agilent
Model: 7890A/5973

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

Surrogate standard percent recoveries were within the QC limits with the following exceptions. Please note that the acceptance criteria allow one surrogate recovery outside of the QC limits per fraction.

(MB-69861), recovery is above criteria for Nitrobenzene-d5 at 101% with criteria of (35-100).

D. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits with the following exceptions. Please note that most test procedures allow for several compounds outside of the QC limits for the LCS, although this may indicate a bias for this specific compound.

LCS-69861 in batch 69861, Percent Recovery is outside QC Limits, recovery is above criteria for 2,4-Dimethylphenol at 121% with criteria of (30-105).

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

No client-requested MS/MSD analyses were included in this SDG.

E. Internal Standards:

Internal standard peak areas were within the QC limits.

F. Dilutions:

No sample in this SDG required analysis at dilution.

G. Samples:

No other unusual occurrences were noted during sample analysis.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Signed:_____ _____

Date:_____1/7/2013_____

Data Flag/Qualifiers:

U Not Detected. This compound was analyzed-for but not detected. For most analyses the reporting limit (lowest standard concentration) is the value listed. For Department of Defense programs, this is the Limit of Detection (LOD).

J This flag indicates an estimated value due to either
- the compound was detected below the reporting limit, or
- estimated concentration for Tentatively Identified Compound

B This flag indicates the compound was also detected in the associated Method Blank. The B flag has an alternative meaning for Inorganics analyses reported using CLP ILM-type metals forms, indicating a "trace" concentration below the reporting limit and equal to or above the detection limit.

D For Organics analysis, this flag indicates the compound concentration was obtained from a secondary dilution analysis

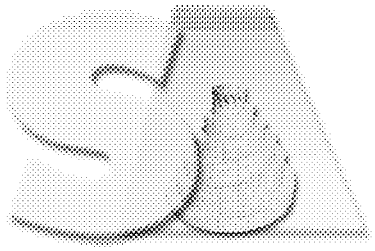
E This flag indicates the compound concentration exceeded the Calibration Range. The E flag has an alternative meaning for Inorganics analyses reported using CLP metals forms, indicating an estimated concentration due to the presence of interferences, as determined by the serial dilution analysis.

P This flag is used for pesticides/PCB/herbicide compound when there is a greater than 40% difference for detected concentration between the two GC columns used for primary and confirmation analyses. This difference typically indicates an interference, causing one value to be unusually high. The **lower** of the two values is generally reported on the Form 1, and both values reported on the Form 10.

A Used to flag semivolatile organic Tentatively Identified Compound library search results for compounds identified as aldol condensation byproducts.

N Used to flag results for volatile and semivolatile Organics analysis Tentatively Identified Compounds where an analyte has passed the identification criteria, and is considered to be positively identified. For Inorganics analysis the N flag indicates the matrix spike recovery falls outside of the control limit.

* For Inorganics analysis the * flag indicates Relative Percent Difference for duplicate analyses is outside of the control limit.



Sample ID Suffixes

DL Diluted analysis. The sample was diluted and reanalyzed. The DL may be followed by a digit if more than one diluted reanalysis is provided. The DL suffix is not attached to an analysis initially performed at dilution, only to reanalyses performed at dilution

RE Reanalysis. Appended to the client sample ID to indicate a reextraction and reanalysis or a reanalysis of the original sample extract.

RA Reanalysis. Appended to the laboratory sample ID indicates a reanalysis of the original sample extract.

RX Reextraction. Appended to the laboratory sample ID indicates a reextraction of the sample.

MS Matrix Spike.

MSD Matrix Spike Duplicate

DUP Duplicate analysis

SD Serial Dilution

PS Post-digestion or Post-distillation spike. For metals or inorganic analyses

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-12(10-11)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2612 Mod. Ref No.: SDG No.: SL2612

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L2612-04A

Sample wt/vol: 15.0 (g/mL) G Lab File ID: S6B2100.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 20 Decanted: (Y/N) N Date Received: 12/20/2012

Concentrated Extract Volume: 1000 (uL) Date Extracted: 12/21/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 12/21/2012

GPC Cleanup:(Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	410	U
111-44-4	Bis(2-chloroethyl)ether	410	U
95-57-8	2-Chlorophenol	410	U
95-48-7	2-Methylphenol	410	U
108-60-1	2,2´-oxybis(1-Chloropropane)	410	U
106-44-5	4-Methylphenol	410	U
621-64-7	N-Nitroso-di-n-propylamine	410	U
67-72-1	Hexachloroethane	410	U
98-95-3	Nitrobenzene	410	U
78-59-1	Isophorone	410	U
88-75-5	2-Nitrophenol	410	U
105-67-9	2,4-Dimethylphenol	410	U
120-83-2	2,4-Dichlorophenol	410	U
91-20-3	Naphthalene	410	U
106-47-8	4-Chloroaniline	410	U
111-91-1	Bis(2-chloroethoxy)methane	410	U
87-68-3	Hexachlorobutadiene	410	U
59-50-7	4-Chloro-3-methylphenol	410	U
91-57-6	2-Methylnaphthalene	410	U
77-47-4	Hexachlorocyclopentadiene	410	U
88-06-2	2,4,6-Trichlorophenol	410	U
95-95-4	2,4,5-Trichlorophenol	840	U
91-58-7	2-Chloronaphthalene	410	U
88-74-4	2-Nitroaniline	840	U
131-11-3	Dimethylphthalate	410	U
208-96-8	Acenaphthylene	410	U
606-20-2	2,6-Dinitrotoluene	410	U
99-09-2	3-Nitroaniline	840	U
83-32-9	Acenaphthene	410	U
51-28-5	2,4-Dinitrophenol	840	U
100-02-7	4-Nitrophenol	840	U
132-64-9	Dibenzofuran	410	U
121-14-2	2,4-Dinitrotoluene	410	U
84-66-2	Diethylphthalate	410	U
7005-72-3	4-Chlorophenyl-phenylether	410	U
86-73-7	Fluorene	410	U

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-12(10-11)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2612 Mod. Ref No.: SDG No.: SL2612

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L2612-04A

Sample wt/vol: 15.0 (g/mL) G Lab File ID: S6B2100.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 20 Decanted: (Y/N) N Date Received: 12/20/2012

Concentrated Extract Volume: 1000 (uL) Date Extracted: 12/21/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 12/21/2012

GPC Cleanup:(Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-01-6	4-Nitroaniline	840	U
534-52-1	4,6-Dinitro-2-methylphenol	840	U
86-30-6	N-Nitrosodiphenylamine	410	U
101-55-3	4-Bromophenyl-phenylether	410	U
118-74-1	Hexachlorobenzene	410	U
87-86-5	Pentachlorophenol	840	U
85-01-8	Phenanthrene	410	U
120-12-7	Anthracene	410	U
86-74-8	Carbazole	410	U
84-74-2	Di-n-butylphthalate	630	
206-44-0	Fluoranthene	410	U
129-00-0	Pyrene	410	U
85-68-7	Butylbenzylphthalate	410	U
91-94-1	3,3´-Dichlorobenzidine	410	U
56-55-3	Benzo(a)anthracene	410	U
218-01-9	Chrysene	410	U
117-81-7	Bis(2-ethylhexyl)phthalate	210	J
117-84-0	Di-n-octylphthalate	410	U
205-99-2	Benzo(b)fluoranthene	410	U
207-08-9	Benzo(k)fluoranthene	410	U
50-32-8	Benzo(a)pyrene	410	U
193-39-5	Indeno(1,2,3-cd)pyrene	410	U
53-70-3	Dibenzo(a,h)anthracene	410	U
191-24-2	Benzo(g,h,i)perylene	410	U
92-52-4	1,1´-Biphenyl	410	U
95-94-3	1,2,4,5-Tetrachlorobenzene	410	U
58-90-2	2,3,4,6-Tetrachlorophenol	410	U
98-86-2	Acetophenone	410	U
1912-24-9	Atrazine	410	U
100-52-7	Benzaldehyde	410	U
105-60-2	Caprolactam	410	U

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-13(7-8)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2612 Mod. Ref No.: SDG No.: SL2612

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L2612-05A

Sample wt/vol: 15.5 (g/mL) G Lab File ID: S6B2101.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 23 Decanted: (Y/N) N Date Received: 12/20/2012

Concentrated Extract Volume: 1000 (uL) Date Extracted: 12/21/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 12/21/2012

GPC Cleanup:(Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	420	U
111-44-4	Bis(2-chloroethyl)ether	420	U
95-57-8	2-Chlorophenol	420	U
95-48-7	2-Methylphenol	420	U
108-60-1	2,2´-oxybis(1-Chloropropane)	420	U
106-44-5	4-Methylphenol	420	U
621-64-7	N-Nitroso-di-n-propylamine	420	U
67-72-1	Hexachloroethane	420	U
98-95-3	Nitrobenzene	420	U
78-59-1	Isophorone	420	U
88-75-5	2-Nitrophenol	420	U
105-67-9	2,4-Dimethylphenol	420	U
120-83-2	2,4-Dichlorophenol	420	U
91-20-3	Naphthalene	420	U
106-47-8	4-Chloroaniline	420	U
111-91-1	Bis(2-chloroethoxy)methane	420	U
87-68-3	Hexachlorobutadiene	420	U
59-50-7	4-Chloro-3-methylphenol	420	U
91-57-6	2-Methylnaphthalene	420	U
77-47-4	Hexachlorocyclopentadiene	420	U
88-06-2	2,4,6-Trichlorophenol	420	U
95-95-4	2,4,5-Trichlorophenol	850	U
91-58-7	2-Chloronaphthalene	420	U
88-74-4	2-Nitroaniline	850	U
131-11-3	Dimethylphthalate	420	U
208-96-8	Acenaphthylene	420	U
606-20-2	2,6-Dinitrotoluene	420	U
99-09-2	3-Nitroaniline	850	U
83-32-9	Acenaphthene	420	U
51-28-5	2,4-Dinitrophenol	850	U
100-02-7	4-Nitrophenol	850	U
132-64-9	Dibenzofuran	420	U
121-14-2	2,4-Dinitrotoluene	420	U
84-66-2	Diethylphthalate	420	U
7005-72-3	4-Chlorophenyl-phenylether	420	U
86-73-7	Fluorene	420	U

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-13(7-8)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2612 Mod. Ref No.: SDG No.: SL2612

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L2612-05A

Sample wt/vol: 15.5 (g/mL) G Lab File ID: S6B2101.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 23 Decanted: (Y/N) N Date Received: 12/20/2012

Concentrated Extract Volume: 1000 (uL) Date Extracted: 12/21/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 12/21/2012

GPC Cleanup:(Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-01-6	4-Nitroaniline	850	U
534-52-1	4,6-Dinitro-2-methylphenol	850	U
86-30-6	N-Nitrosodiphenylamine	420	U
101-55-3	4-Bromophenyl-phenylether	420	U
118-74-1	Hexachlorobenzene	420	U
87-86-5	Pentachlorophenol	850	U
85-01-8	Phenanthrene	420	U
120-12-7	Anthracene	420	U
86-74-8	Carbazole	420	U
84-74-2	Di-n-butylphthalate	720	
206-44-0	Fluoranthene	420	U
129-00-0	Pyrene	420	U
85-68-7	Butylbenzylphthalate	420	U
91-94-1	3,3´-Dichlorobenzidine	420	U
56-55-3	Benzo(a)anthracene	420	U
218-01-9	Chrysene	420	U
117-81-7	Bis(2-ethylhexyl)phthalate	420	U
117-84-0	Di-n-octylphthalate	420	U
205-99-2	Benzo(b)fluoranthene	420	U
207-08-9	Benzo(k)fluoranthene	420	U
50-32-8	Benzo(a)pyrene	420	U
193-39-5	Indeno(1,2,3-cd)pyrene	420	U
53-70-3	Dibenzo(a,h)anthracene	420	U
191-24-2	Benzo(g,h,i)perylene	420	U
92-52-4	1,1´-Biphenyl	420	U
95-94-3	1,2,4,5-Tetrachlorobenzene	420	U
58-90-2	2,3,4,6-Tetrachlorophenol	420	U
98-86-2	Acetophenone	420	U
1912-24-9	Atrazine	420	U
100-52-7	Benzaldehyde	420	U
105-60-2	Caprolactam	420	U

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-14(5-6)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2612 Mod. Ref No.: SDG No.: SL2612

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L2612-13A

Sample wt/vol: 15.3 (g/mL) G Lab File ID: S6B2102.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 23 Decanted: (Y/N) N Date Received: 12/20/2012

Concentrated Extract Volume: 1000 (uL) Date Extracted: 12/21/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 12/21/2012

GPC Cleanup:(Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	420	U
111-44-4	Bis(2-chloroethyl)ether	420	U
95-57-8	2-Chlorophenol	420	U
95-48-7	2-Methylphenol	420	U
108-60-1	2,2´-oxybis(1-Chloropropane)	420	U
106-44-5	4-Methylphenol	420	U
621-64-7	N-Nitroso-di-n-propylamine	420	U
67-72-1	Hexachloroethane	420	U
98-95-3	Nitrobenzene	420	U
78-59-1	Isophorone	420	U
88-75-5	2-Nitrophenol	420	U
105-67-9	2,4-Dimethylphenol	420	U
120-83-2	2,4-Dichlorophenol	420	U
91-20-3	Naphthalene	420	U
106-47-8	4-Chloroaniline	420	U
111-91-1	Bis(2-chloroethoxy)methane	420	U
87-68-3	Hexachlorobutadiene	420	U
59-50-7	4-Chloro-3-methylphenol	420	U
91-57-6	2-Methylnaphthalene	420	U
77-47-4	Hexachlorocyclopentadiene	420	U
88-06-2	2,4,6-Trichlorophenol	420	U
95-95-4	2,4,5-Trichlorophenol	850	U
91-58-7	2-Chloronaphthalene	420	U
88-74-4	2-Nitroaniline	850	U
131-11-3	Dimethylphthalate	420	U
208-96-8	Acenaphthylene	420	U
606-20-2	2,6-Dinitrotoluene	420	U
99-09-2	3-Nitroaniline	850	U
83-32-9	Acenaphthene	420	U
51-28-5	2,4-Dinitrophenol	850	U
100-02-7	4-Nitrophenol	850	U
132-64-9	Dibenzofuran	420	U
121-14-2	2,4-Dinitrotoluene	420	U
84-66-2	Diethylphthalate	420	U
7005-72-3	4-Chlorophenyl-phenylether	420	U
86-73-7	Fluorene	420	U

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-14(5-6)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2612 Mod. Ref No.: SDG No.: SL2612

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L2612-13A

Sample wt/vol: 15.3 (g/mL) G Lab File ID: S6B2102.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 23 Decanted: (Y/N) N Date Received: 12/20/2012

Concentrated Extract Volume: 1000 (uL) Date Extracted: 12/21/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 12/21/2012

GPC Cleanup:(Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-01-6	4-Nitroaniline	850	U
534-52-1	4,6-Dinitro-2-methylphenol	850	U
86-30-6	N-Nitrosodiphenylamine	420	U
101-55-3	4-Bromophenyl-phenylether	420	U
118-74-1	Hexachlorobenzene	420	U
87-86-5	Pentachlorophenol	850	U
85-01-8	Phenanthrene	420	U
120-12-7	Anthracene	420	U
86-74-8	Carbazole	420	U
84-74-2	Di-n-butylphthalate	620	
206-44-0	Fluoranthene	420	U
129-00-0	Pyrene	420	U
85-68-7	Butylbenzylphthalate	420	U
91-94-1	3,3´-Dichlorobenzidine	420	U
56-55-3	Benzo(a)anthracene	420	U
218-01-9	Chrysene	420	U
117-81-7	Bis(2-ethylhexyl)phthalate	210	J
117-84-0	Di-n-octylphthalate	420	U
205-99-2	Benzo(b)fluoranthene	420	U
207-08-9	Benzo(k)fluoranthene	420	U
50-32-8	Benzo(a)pyrene	420	U
193-39-5	Indeno(1,2,3-cd)pyrene	420	U
53-70-3	Dibenzo(a,h)anthracene	420	U
191-24-2	Benzo(g,h,i)perylene	420	U
92-52-4	1,1´-Biphenyl	420	U
95-94-3	1,2,4,5-Tetrachlorobenzene	420	U
58-90-2	2,3,4,6-Tetrachlorophenol	420	U
98-86-2	Acetophenone	420	U
1912-24-9	Atrazine	420	U
100-52-7	Benzaldehyde	420	U
105-60-2	Caprolactam	420	U

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MB-69861

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2612 Mod. Ref No.: SDG No.: SL2612

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: MB-69861

Sample wt/vol: 15.0 (g/mL) G Lab File ID: S6B2098.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: Decanted: (Y/N) Date Received:

Concentrated Extract Volume: 1000 (uL) Date Extracted: 12/21/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 12/21/2012

GPC Cleanup:(Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	330	U
111-44-4	Bis(2-chloroethyl)ether	330	U
95-57-8	2-Chlorophenol	330	U
95-48-7	2-Methylphenol	330	U
108-60-1	2,2´-oxybis(1-Chloropropane)	330	U
106-44-5	4-Methylphenol	330	U
621-64-7	N-Nitroso-di-n-propylamine	330	U
67-72-1	Hexachloroethane	330	U
98-95-3	Nitrobenzene	330	U
78-59-1	Isophorone	330	U
88-75-5	2-Nitrophenol	330	U
105-67-9	2,4-Dimethylphenol	330	U
120-83-2	2,4-Dichlorophenol	330	U
91-20-3	Naphthalene	330	U
106-47-8	4-Chloroaniline	330	U
111-91-1	Bis(2-chloroethoxy)methane	330	U
87-68-3	Hexachlorobutadiene	330	U
59-50-7	4-Chloro-3-methylphenol	330	U
91-57-6	2-Methylnaphthalene	330	U
77-47-4	Hexachlorocyclopentadiene	330	U
88-06-2	2,4,6-Trichlorophenol	330	U
95-95-4	2,4,5-Trichlorophenol	670	U
91-58-7	2-Chloronaphthalene	330	U
88-74-4	2-Nitroaniline	670	U
131-11-3	Dimethylphthalate	330	U
208-96-8	Acenaphthylene	330	U
606-20-2	2,6-Dinitrotoluene	330	U
99-09-2	3-Nitroaniline	670	U
83-32-9	Acenaphthene	330	U
51-28-5	2,4-Dinitrophenol	670	U
100-02-7	4-Nitrophenol	670	U
132-64-9	Dibenzofuran	330	U
121-14-2	2,4-Dinitrotoluene	330	U
84-66-2	Diethylphthalate	330	U
7005-72-3	4-Chlorophenyl-phenylether	330	U
86-73-7	Fluorene	330	U

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MB-69861

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2612 Mod. Ref No.: SDG No.: SL2612

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: MB-69861

Sample wt/vol: 15.0 (g/mL) G Lab File ID: S6B2098.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: Decanted: (Y/N) Date Received:

Concentrated Extract Volume: 1000 (uL) Date Extracted: 12/21/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 12/21/2012

GPC Cleanup:(Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-01-6	4-Nitroaniline	670	U
534-52-1	4,6-Dinitro-2-methylphenol	670	U
86-30-6	N-Nitrosodiphenylamine	330	U
101-55-3	4-Bromophenyl-phenylether	330	U
118-74-1	Hexachlorobenzene	330	U
87-86-5	Pentachlorophenol	670	U
85-01-8	Phenanthrene	330	U
120-12-7	Anthracene	330	U
86-74-8	Carbazole	330	U
84-74-2	Di-n-butylphthalate	330	U
206-44-0	Fluoranthene	330	U
129-00-0	Pyrene	330	U
85-68-7	Butylbenzylphthalate	330	U
91-94-1	3,3´-Dichlorobenzidine	330	U
56-55-3	Benzo(a)anthracene	330	U
218-01-9	Chrysene	330	U
117-81-7	Bis(2-ethylhexyl)phthalate	330	U
117-84-0	Di-n-octylphthalate	330	U
205-99-2	Benzo(b)fluoranthene	330	U
207-08-9	Benzo(k)fluoranthene	330	U
50-32-8	Benzo(a)pyrene	330	U
193-39-5	Indeno(1,2,3-cd)pyrene	330	U
53-70-3	Dibenzo(a,h)anthracene	330	U
191-24-2	Benzo(g,h,i)perylene	330	U
92-52-4	1,1´-Biphenyl	330	U
95-94-3	1,2,4,5-Tetrachlorobenzene	330	U
58-90-2	2,3,4,6-Tetrachlorophenol	330	U
98-86-2	Acetophenone	330	U
1912-24-9	Atrazine	330	U
100-52-7	Benzaldehyde	330	U
105-60-2	Caprolactam	330	U

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCS-69861

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2612 Mod. Ref No.: SDG No.: SL2612

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: LCS-69861

Sample wt/vol: 15.0 (g/mL) G Lab File ID: S6B2099.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: Decanted: (Y/N) Date Received:

Concentrated Extract Volume: 1000 (uL) Date Extracted: 12/21/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 12/21/2012

GPC Cleanup:(Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	3200	
111-44-4	Bis(2-chloroethyl)ether	3000	
95-57-8	2-Chlorophenol	3200	
95-48-7	2-Methylphenol	3100	
108-60-1	2,2´-oxybis(1-Chloropropane)	2900	
106-44-5	4-Methylphenol	3200	
621-64-7	N-Nitroso-di-n-propylamine	2900	
67-72-1	Hexachloroethane	3000	
98-95-3	Nitrobenzene	3300	
78-59-1	Isophorone	3200	
88-75-5	2-Nitrophenol	3300	
105-67-9	2,4-Dimethylphenol	4000	
120-83-2	2,4-Dichlorophenol	3400	
91-20-3	Naphthalene	3200	
106-47-8	4-Chloroaniline	2300	
111-91-1	Bis(2-chloroethoxy)methane	3300	
87-68-3	Hexachlorobutadiene	3500	
59-50-7	4-Chloro-3-methylphenol	3500	
91-57-6	2-Methylnaphthalene	3300	
77-47-4	Hexachlorocyclopentadiene	3600	
88-06-2	2,4,6-Trichlorophenol	3400	
95-95-4	2,4,5-Trichlorophenol	3200	
91-58-7	2-Chloronaphthalene	3000	
88-74-4	2-Nitroaniline	3100	
131-11-3	Dimethylphthalate	3100	
208-96-8	Acenaphthylene	2900	
606-20-2	2,6-Dinitrotoluene	3200	
99-09-2	3-Nitroaniline	2400	
83-32-9	Acenaphthene	3000	
51-28-5	2,4-Dinitrophenol	3000	
100-02-7	4-Nitrophenol	3400	
132-64-9	Dibenzofuran	3100	
121-14-2	2,4-Dinitrotoluene	3200	
84-66-2	Diethylphthalate	3100	
7005-72-3	4-Chlorophenyl-phenylether	3200	
86-73-7	Fluorene	3200	

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCS-69861

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2612 Mod. Ref No.: SDG No.: SL2612

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: LCS-69861

Sample wt/vol: 15.0 (g/mL) G Lab File ID: S6B2099.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: Decanted: (Y/N) Date Received:

Concentrated Extract Volume: 1000 (uL) Date Extracted: 12/21/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 12/21/2012

GPC Cleanup:(Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-01-6	4-Nitroaniline	2700	
534-52-1	4,6-Dinitro-2-methylphenol	2800	
86-30-6	N-Nitrosodiphenylamine	3000	
101-55-3	4-Bromophenyl-phenylether	3300	
118-74-1	Hexachlorobenzene	3300	
87-86-5	Pentachlorophenol	3400	
85-01-8	Phenanthrene	3100	
120-12-7	Anthracene	3100	
86-74-8	Carbazole	3000	
84-74-2	Di-n-butylphthalate	3000	
206-44-0	Fluoranthene	3100	
129-00-0	Pyrene	3100	
85-68-7	Butylbenzylphthalate	3100	
91-94-1	3,3´-Dichlorobenzidine	2400	
56-55-3	Benzo(a)anthracene	3100	
218-01-9	Chrysene	3100	
117-81-7	Bis(2-ethylhexyl)phthalate	3100	
117-84-0	Di-n-octylphthalate	3200	
205-99-2	Benzo(b)fluoranthene	3200	
207-08-9	Benzo(k)fluoranthene	3500	
50-32-8	Benzo(a)pyrene	3300	
193-39-5	Indeno(1,2,3-cd)pyrene	3400	
53-70-3	Dibenzo(a,h)anthracene	3500	
191-24-2	Benzo(g,h,i)perylene	3400	
92-52-4	1,1´-Biphenyl	2800	
95-94-3	1,2,4,5-Tetrachlorobenzene	3700	
58-90-2	2,3,4,6-Tetrachlorophenol	3600	
98-86-2	Acetophenone	2700	
1912-24-9	Atrazine	4600	
100-52-7	Benzaldehyde	540	
105-60-2	Caprolactam	3200	

2K - FORM II SV-4

SOIL SEMIVOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2612 Mod. Ref No.: SDG No.: SL2612

Level: (LOW/MED) LOW

	EPA SAMPLE NO.	SDMC1 (NBZ) #	SDMC2 (FBP) #	SDMC3 (TPH) #	SDMC4 (PHL) #	SDMC5 (2FP) #	SDMC6 (TBP) #			TOT OUT
01	MB-69861	101 *	90	108	100	101	103			1
02	LCS-69861	96	88	102	96	94	104			0
03	SB-12(10-11)	63	61	75	66	66	75			0
04	SB-13(7-8)	71	67	87	66	69	85			0
05	SB-14(5-6)	70	67	88	74	75	89			0

			QC LIMITS
SDMC1	(NBZ)	= Nitrobenzene-d5	(35-100)
SDMC2	(FBP)	= 2-Fluorobiphenyl	(45-105)
SDMC3	(TPH)	= Terphenyl-d14	(30-125)
SDMC4	(PHL)	= Phenol-d5	(40-100)
SDMC5	(2FP)	= 2-Fluorophenol	(35-105)
SDMC6	(TBP)	= 2,4,6-Tribromophenol	(35-125)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D DMC diluted out

som12.12.17.A

3 - FORM III
SOIL LABORATORY CONTROL
SAMPLE RECOVERY

EPA SAMPLE NO.
LCS-69861

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2612 Mod. Ref No.: SDG No.: SL2612

Lab Sample ID: LCS-69861 LCS Lot No.: CD-1510Z

Date Extracted: 12/21/2012 Date Analyzed (1): 12/21/2012

COMPOUND	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS %REC	#	QC. LIMITS REC.
Phenol	3333.0000	0.0000	3167.6467	95		40 - 100
Bis(2-chloroethyl)ether	3333.0000	0.0000	3016.6997	91		40 - 105
2-Chlorophenol	3333.0000	0.0000	3181.7303	95		45 - 105
2-Methylphenol	3333.0000	0.0000	3137.7326	94		40 - 105
2,2´-oxybis(1-Chloropropan	3333.0000	0.0000	2912.5592	87		20 - 115
4-Methylphenol	3333.0000	0.0000	3161.1079	95		40 - 105
N-Nitroso-di-n-propylamine	3333.0000	0.0000	2914.3659	87		40 - 115
Hexachloroethane	3333.0000	0.0000	2995.0091	90		35 - 110
Nitrobenzene	3333.0000	0.0000	3298.7912	99		40 - 115
Isophorone	3333.0000	0.0000	3201.2068	96		45 - 110
2-Nitrophenol	3333.0000	0.0000	3290.8826	99		40 - 110
2,4-Dimethylphenol	3333.0000	0.0000	4028.3508	121	*	30 - 105
2,4-Dichlorophenol	3333.0000	0.0000	3439.0450	103		45 - 110
Naphthalene	3333.0000	0.0000	3200.2153	96		40 - 105
4-Chloroaniline	3333.0000	0.0000	2301.6651	69		10 - 100
Bis(2-chloroethoxy)methane	3333.0000	0.0000	3295.2062	99		45 - 110
Hexachlorobutadiene	3333.0000	0.0000	3464.1975	104		40 - 115
4-Chloro-3-methylphenol	3333.0000	0.0000	3476.4661	104		45 - 115
2-Methylnaphthalene	3333.0000	0.0000	3299.9304	99		45 - 105
Hexachlorocyclopentadiene	3333.0000	0.0000	3582.0849	107		8 - 148
2,4,6-Trichlorophenol	3333.0000	0.0000	3399.2789	102		45 - 110
2,4,5-Trichlorophenol	3333.0000	0.0000	3189.2810	96		50 - 110
2-Chloronaphthalene	3333.0000	0.0000	3016.4200	91		45 - 105
2-Nitroaniline	3333.0000	0.0000	3099.8297	93		45 - 120
Dimethylphthalate	3333.0000	0.0000	3144.4508	94		50 - 110
Acenaphthylene	3333.0000	0.0000	2935.9053	88		45 - 105
2,6-Dinitrotoluene	3333.0000	0.0000	3210.9297	96		50 - 110
3-Nitroaniline	3333.0000	0.0000	2431.0677	73		25 - 110
Acenaphthene	3333.0000	0.0000	3030.0518	91		45 - 110
2,4-Dinitrophenol	3333.0000	0.0000	2950.3949	89		15 - 130
4-Nitrophenol	3333.0000	0.0000	3375.8701	101		15 - 140
Dibenzofuran	3333.0000	0.0000	3088.5786	93		50 - 105
2,4-Dinitrotoluene	3333.0000	0.0000	3221.9879	97		50 - 115
Diethylphthalate	3333.0000	0.0000	3138.8590	94		50 - 115
4-Chlorophenyl-phenylether	3333.0000	0.0000	3233.8052	97		45 - 110
Fluorene	3333.0000	0.0000	3160.2959	95		50 - 110
4-Nitroaniline	3333.0000	0.0000	2735.3749	82		35 - 115
4,6-Dinitro-2-methylphenol	3333.0000	0.0000	2835.0041	85		30 - 135
N-Nitrosodiphenylamine	3333.0000	0.0000	2999.1875	90		50 - 115
4-Bromophenyl-phenylether	3333.0000	0.0000	3256.8925	98		45 - 115
Hexachlorobenzene	3333.0000	0.0000	3266.2688	98		45 - 120
Pentachlorophenol	3333.0000	0.0000	3393.4172	102		25 - 120
Phenanthrene	3333.0000	0.0000	3064.0420	92		50 - 110
Anthracene	3333.0000	0.0000	3068.1721	92		55 - 105

3 - FORM III
SOIL LABORATORY CONTROL
SAMPLE RECOVERY

EPA SAMPLE NO.
LCS-69861

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2612 Mod. Ref No.: SDG No.: SL2612

Lab Sample ID: LCS-69861 LCS Lot No.: CD-1510Z

Date Extracted: 12/21/2012 Date Analyzed (1): 12/21/2012

COMPOUND	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS %REC	#	QC. LIMITS REC.
Carbazole	3333.0000	0.0000	3008.0309	90		45 - 115
Di-n-butylphthalate	3333.0000	0.0000	3022.7290	91		55 - 110
Fluoranthene	3333.0000	0.0000	3116.4381	94		55 - 115
Pyrene	3333.0000	0.0000	3104.3093	93		45 - 125
Butylbenzylphthalate	3333.0000	0.0000	3078.7119	92		50 - 125
3,3´-Dichlorobenzidine	3333.0000	0.0000	2376.4868	71		10 - 130
Benzo(a)anthracene	3333.0000	0.0000	3077.4859	92		50 - 110
Chrysene	3333.0000	0.0000	3107.4332	93		55 - 110
Bis(2-ethylhexyl)phthalate	3333.0000	0.0000	3067.2545	92		45 - 125
Di-n-octylphthalate	3333.0000	0.0000	3244.8828	97		40 - 130
Benzo(b)fluoranthene	3333.0000	0.0000	3240.6385	97		45 - 115
Benzo(k)fluoranthene	3333.0000	0.0000	3519.2822	106		45 - 125
Benzo(a)pyrene	3333.0000	0.0000	3322.6708	100		50 - 110
Indeno(1,2,3-cd)pyrene	3333.0000	0.0000	3442.9404	103		40 - 120
Dibenzo(a,h)anthracene	3333.0000	0.0000	3488.4634	105		40 - 125
Benzo(g,h,i)perylene	3333.0000	0.0000	3402.6513	102		40 - 125
1,1´-Biphenyl	3333.0000	0.0000	2797.5714	84		50 - 121
1,2,4,5-Tetrachlorobenzene	3333.0000	0.0000	3703.7773	111		50 - 126
2,3,4,6-Tetrachlorophenol	3333.0000	0.0000	3602.6826	108		41 - 139
Acetophenone	3333.0000	0.0000	2728.3114	82		50 - 150
Atrazine	3333.0000	0.0000	4616.7002	139		50 - 150
Benzaldehyde	3333.0000	0.0000	539.8406	16		10 - 118
Caprolactam	3333.0000	0.0000	3180.7878	95		41 - 115

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 1 out of 67 outside limits

COMMENTS:

4C - FORM IV SV

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

MB-69861

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2612 Mod. Ref No.: SDG No.: SL2612

Lab File ID: S6B2098.D Lab Sample ID: MB-69861

Instrument ID: S6 Date Extracted: 12/21/2012

Matrix: (SOIL/SED/WATER) SOIL Date Analyzed: 12/21/2012

Level: (LOW/MED) LOW Time Analyzed: 16:18

Extraction: (Type) SONC GPC Cleanup: (Y/N) N

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	LCS-69861	LCS-69861	S6B2099.D	12/21/2012
02	SB-12(10-11)	L2612-04A	S6B2100.D	12/21/2012
03	SB-13(7-8)	L2612-05A	S6B2101.D	12/21/2012
04	SB-14(5-6)	L2612-13A	S6B2102.D	12/21/2012

COMMENTS:

8C - FORM VIII SV-1

SEMIVOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2612 Mod. Ref No.: SDG No.: SL2612

GC Column: Rxi-5sil MS ID: 0.25 (mm) Init. Calib. Date(s): 12/18/2012 12/18/2012

EPA Sample No.(SSTD020##) SSTD0256G Date Analyzed: 12/21/2012

Lab File ID (Standard): S6B2097.D Time Analyzed: 15:39

Instrument ID: S6

		IS1 (DCB) AREA	#	RT	#	IS2 (NPT) AREA	#	RT	#	IS3 (ANT) AREA	#	RT	#
	12 HOUR STD	101967		4.416		391664		5.538		287805		7.019	
	UPPER LIMIT	203934		4.916		783328		6.038		575610		7.519	
	LOWER LIMIT	50984		3.916		195832		5.038		143903		6.519	
	EPA SAMPLE NO.												
01	MB-69861	129268		4.416		488197		5.532		347727		7.019	
02	LCS-69861	126970		4.421		486667		5.538		358469		7.024	
03	SB-12(10-11)	146138		4.422		541052		5.538		387130		7.019	
04	SB-13(7-8)	159787		4.421		570471		5.538		385319		7.018	
05	SB-14(5-6)	135207		4.421		508613		5.538		368844		7.018	

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10
AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside contract required QC limits with an asterisk.

8D - FORM VIII SV-2

SEMIVOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2612 Mod. Ref No.: SDG No.: SL2612

EPA Sample No.(SSTD020##) SSTD0256G Date Analyzed: 12/21/2012

Lab File ID (Standard): S6B2097.D Time Analyzed: 15:39

Instrument ID: S6 GC Column: Rxi-5sil MS ID: 0.25 (mm)

		IS4 (PHN) AREA	#	RT	#	IS5 (CRY) AREA	#	RT	#	IS6 (PRY) AREA	#	RT	#
	12 HOUR STD	604072		8.252		788424		10.55		805003		12.007	
	UPPER LIMIT	1208144		8.752		1576848		11.05		1610006		12.507	
	LOWER LIMIT	302036		7.752		394212		10.05		402502		11.507	
	EPA SAMPLE NO.												
01	MB-69861	727633		8.252		859642		10.550		766953		12.013	
02	LCS-69861	753625		8.252		901968		10.509		792409		11.942	
03	SB-12(10-11)	786435		8.252		889683		10.497		760761		11.931	
04	SB-13(7-8)	730980		8.252		733662		10.497		610197		11.930	
05	SB-14(5-6)	762685		8.252		876504		10.497		757051		11.930	

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12
AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside contract required QC limits with an asterisk.

* Pesticide Organics *

REPORT NARRATIVE

Spectrum Analytical, Inc. Featuring Hanibal Technology, RI Division.

Client : ARCADIS U.S., Inc.

Project: S&S Dry Cleaners & Dyers

Laboratory Workorder / SDG #: L2612

SW846 8081B, Organochlorine Pesticides by GC-ECD

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code: SW846 8081B

IV. PREPARATION

Soil Samples were prepared following procedures in laboratory test code: SW3550

V. INSTRUMENTATION

The following instrumentation was used

Instrument Code: E4
Instrument Type: GC-ECD
Description: HP6890
Manufacturer: Hewlett-Packard
Model: 6890
GC Column used: 30 m X 0.53 mm ID [0.50 um thickness] CLPPest capillary column.

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

Surrogate standard percent recoveries were within the QC limits.

D. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits.

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

No client-requested MS/MSD analyses were included in this SDG.

E. Dilutions:

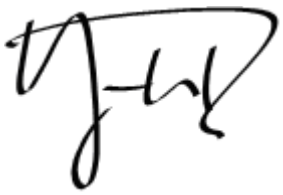
No sample in this SDG required analysis at dilution.

F. Samples:

The lower concentration between the primary and confirmatory GC column concentrations is reported due to the presence of interferences unless otherwise indicated. P flags are assigned to compounds when D% between the two columns are greater than 40%.

No other unusual occurrences were noted during sample analysis.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.



Signed:_____ _____

Date:_____1/7/2013_____

Data Flag/Qualifiers:

U Not Detected. This compound was analyzed-for but not detected. For most analyses the reporting limit (lowest standard concentration) is the value listed. For Department of Defense programs, this is the Limit of Detection (LOD).

J This flag indicates an estimated value due to either
- the compound was detected below the reporting limit, or
- estimated concentration for Tentatively Identified Compound

B This flag indicates the compound was also detected in the associated Method Blank. The B flag has an alternative meaning for Inorganics analyses reported using CLP ILM-type metals forms, indicating a "trace" concentration below the reporting limit and equal to or above the detection limit.

D For Organics analysis, this flag indicates the compound concentration was obtained from a secondary dilution analysis

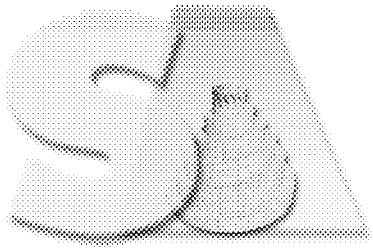
E This flag indicates the compound concentration exceeded the Calibration Range. The E flag has an alternative meaning for Inorganics analyses reported using CLP metals forms, indicating an estimated concentration due to the presence of interferences, as determined by the serial dilution analysis.

P This flag is used for pesticides/PCB/herbicide compound when there is a greater than 40% difference for detected concentration between the two GC columns used for primary and confirmation analyses. This difference typically indicates an interference, causing one value to be unusually high. The **lower** of the two values is generally reported on the Form 1, and both values reported on the Form 10.

A Used to flag semivolatile organic Tentatively Identified Compound library search results for compounds identified as aldol condensation byproducts.

N Used to flag results for volatile and semivolatile Organics analysis Tentatively Identified Compounds where an analyte has passed the identification criteria, and is considered to be positively identified. For Inorganics analysis the N flag indicates the matrix spike recovery falls outside of the control limit.

* For Inorganics analysis the * flag indicates Relative Percent Difference for duplicate analyses is outside of the control limit.



Sample ID Suffixes

DL Diluted analysis. The sample was diluted and reanalyzed. The DL may be followed by a digit if more than one diluted reanalysis is provided. The DL suffix is not attached to an analysis initially performed at dilution, only to reanalyses performed at dilution

RE Reanalysis. Appended to the client sample ID to indicate a reextraction and reanalysis or a reanalysis of the original sample extract.

RA Reanalysis. Appended to the laboratory sample ID indicates a reanalysis of the original sample extract.

RX Reextraction. Appended to the laboratory sample ID indicates a reextraction of the sample.

MS Matrix Spike.

MSD Matrix Spike Duplicate

DUP Duplicate analysis

SD Serial Dilution

PS Post-digestion or Post-distillation spike. For metals or inorganic analyses

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-12(10-11)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2612 Mod. Ref No.: SDG No.: SL2612

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L2612-04A

Sample wt/vol: 30.3 (g/mL) G Lab File ID: E4H0583F.D/E4H0583R.D

% Moisture: 20 Decanted: (Y/N) N Date Received: 12/20/2012

Extraction: (Type) SONC Date Extracted: 12/21/2012

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/21/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0

GPC Cleanup:(Y/N) N pH: Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.1	U
319-85-7	beta-BHC	2.1	U
319-86-8	delta-BHC	2.1	U
58-89-9	gamma-BHC (Lindane)	2.1	U
76-44-8	Heptachlor	2.1	U
309-00-2	Aldrin	2.1	U
1024-57-3	Heptachlor epoxide	2.1	U
959-98-8	Endosulfan I	2.1	U
60-57-1	Dieldrin	4.1	U
72-55-9	4,4´-DDE	4.1	U
72-20-8	Endrin	4.1	U
33213-65-9	Endosulfan II	4.1	U
72-54-8	4,4´-DDD	4.1	U
1031-07-8	Endosulfan sulfate	4.1	U
50-29-3	4,4´-DDT	4.1	U
72-43-5	Methoxychlor	21	U
53494-70-5	Endrin ketone	4.1	U
7421-93-4	Endrin aldehyde	4.1	U
5103-71-9	alpha-Chlordane	2.1	U
5103-74-2	gamma-Chlordane	2.1	U
8001-35-2	Toxaphene	210	U

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-13(7-8)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2612 Mod. Ref No.: SDG No.: SL2612

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L2612-05A

Sample wt/vol: 30.3 (g/mL) G Lab File ID: E4H0584F.D/E4H0584R.D

% Moisture: 23 Decanted: (Y/N) N Date Received: 12/20/2012

Extraction: (Type) SONC Date Extracted: 12/21/2012

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/21/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0

GPC Cleanup:(Y/N) N pH: Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.2	U
319-85-7	beta-BHC	2.2	U
319-86-8	delta-BHC	2.2	U
58-89-9	gamma-BHC (Lindane)	2.2	U
76-44-8	Heptachlor	2.2	U
309-00-2	Aldrin	2.2	U
1024-57-3	Heptachlor epoxide	2.2	U
959-98-8	Endosulfan I	2.2	U
60-57-1	Dieldrin	4.3	U
72-55-9	4,4´-DDE	4.3	U
72-20-8	Endrin	4.3	U
33213-65-9	Endosulfan II	4.3	U
72-54-8	4,4´-DDD	4.3	U
1031-07-8	Endosulfan sulfate	4.3	U
50-29-3	4,4´-DDT	4.3	U
72-43-5	Methoxychlor	22	U
53494-70-5	Endrin ketone	4.3	U
7421-93-4	Endrin aldehyde	4.3	U
5103-71-9	alpha-Chlordane	2.2	U
5103-74-2	gamma-Chlordane	2.2	U
8001-35-2	Toxaphene	220	U

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-14(5-6)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2612 Mod. Ref No.: SDG No.: SL2612

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L2612-13A

Sample wt/vol: 30.5 (g/mL) G Lab File ID: E4H0585F.D/E4H0585R.D

% Moisture: 23 Decanted: (Y/N) N Date Received: 12/20/2012

Extraction: (Type) SONC Date Extracted: 12/21/2012

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/21/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0

GPC Cleanup:(Y/N) N pH: Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.2	U
319-85-7	beta-BHC	2.2	U
319-86-8	delta-BHC	2.2	U
58-89-9	gamma-BHC (Lindane)	2.2	U
76-44-8	Heptachlor	2.2	U
309-00-2	Aldrin	2.2	U
1024-57-3	Heptachlor epoxide	2.2	U
959-98-8	Endosulfan I	2.2	U
60-57-1	Dieldrin	4.2	U
72-55-9	4,4´-DDE	4.2	U
72-20-8	Endrin	4.2	U
33213-65-9	Endosulfan II	4.2	U
72-54-8	4,4´-DDD	4.2	U
1031-07-8	Endosulfan sulfate	4.2	U
50-29-3	4,4´-DDT	4.2	U
72-43-5	Methoxychlor	22	U
53494-70-5	Endrin ketone	4.2	U
7421-93-4	Endrin aldehyde	4.2	U
5103-71-9	alpha-Chlordane	2.2	U
5103-74-2	gamma-Chlordane	2.2	U
8001-35-2	Toxaphene	220	U

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MB-69874

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2612 Mod. Ref No.: SDG No.: SL2612

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: MB-69874

Sample wt/vol: 30.0 (g/mL) G Lab File ID: E4H0580F.D/E4H0580R.D

% Moisture: Decanted: (Y/N) Date Received:

Extraction: (Type) SONC Date Extracted: 12/21/2012

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/21/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0

GPC Cleanup:(Y/N) N pH: Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.7	U
319-85-7	beta-BHC	1.7	U
319-86-8	delta-BHC	1.7	U
58-89-9	gamma-BHC (Lindane)	1.7	U
76-44-8	Heptachlor	1.7	U
309-00-2	Aldrin	1.7	U
1024-57-3	Heptachlor epoxide	1.7	U
959-98-8	Endosulfan I	1.7	U
60-57-1	Dieldrin	3.3	U
72-55-9	4,4´-DDE	3.3	U
72-20-8	Endrin	3.3	U
33213-65-9	Endosulfan II	3.3	U
72-54-8	4,4´-DDD	3.3	U
1031-07-8	Endosulfan sulfate	3.3	U
50-29-3	4,4´-DDT	3.3	U
72-43-5	Methoxychlor	17	U
53494-70-5	Endrin ketone	3.3	U
7421-93-4	Endrin aldehyde	3.3	U
5103-71-9	alpha-Chlordane	1.7	U
5103-74-2	gamma-Chlordane	1.7	U
8001-35-2	Toxaphene	170	U

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCS-69874(1)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2612 Mod. Ref No.: SDG No.: SL2612

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: LCS-69874

Sample wt/vol: 30 (g/mL) G Lab File ID: E4H0581F.D

% Moisture: Decanted: (Y/N) Date Received:

Extraction: (Type) SONC Date Extracted: 12/21/2012

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/21/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0

GPC Cleanup:(Y/N) N pH: Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	5.6	
319-85-7	beta-BHC	5.8	
319-86-8	delta-BHC	6.0	
58-89-9	gamma-BHC (Lindane)	5.8	
76-44-8	Heptachlor	5.8	
309-00-2	Aldrin	5.8	
1024-57-3	Heptachlor epoxide	5.9	
959-98-8	Endosulfan I	5.8	
60-57-1	Dieldrin	12	
72-55-9	4,4´-DDE	12	
72-20-8	Endrin	13	
33213-65-9	Endosulfan II	12	
72-54-8	4,4´-DDD	12	
1031-07-8	Endosulfan sulfate	12	
50-29-3	4,4´-DDT	11	
72-43-5	Methoxychlor	59	
53494-70-5	Endrin ketone	12	
7421-93-4	Endrin aldehyde	12	
5103-71-9	alpha-Chlordane	5.8	
5103-74-2	gamma-Chlordane	5.9	
8001-35-2	Toxaphene	170	U

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCS-69874(2)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2612 Mod. Ref No.: SDG No.: SL2612

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: LCS-69874

Sample wt/vol: 30 (g/mL) G Lab File ID: E4H0581R.D

% Moisture: Decanted: (Y/N) Date Received:

Extraction: (Type) SONC Date Extracted: 12/21/2012

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/21/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0

GPC Cleanup:(Y/N) N pH: Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	6.0	
319-85-7	beta-BHC	6.1	
319-86-8	delta-BHC	6.2	
58-89-9	gamma-BHC (Lindane)	6.0	
76-44-8	Heptachlor	6.0	
309-00-2	Aldrin	5.9	
1024-57-3	Heptachlor epoxide	6.1	
959-98-8	Endosulfan I	6.0	
60-57-1	Dieldrin	12	
72-55-9	4,4´-DDE	12	
72-20-8	Endrin	12	
33213-65-9	Endosulfan II	12	
72-54-8	4,4´-DDD	12	
1031-07-8	Endosulfan sulfate	11	
50-29-3	4,4´-DDT	11	
72-43-5	Methoxychlor	57	
53494-70-5	Endrin ketone	11	
7421-93-4	Endrin aldehyde	11	
5103-71-9	alpha-Chlordane	6.0	
5103-74-2	gamma-Chlordane	6.1	
8001-35-2	Toxaphene	170	U

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
LCSD-69874(1)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2612 Mod. Ref No.: SDG No.: SL2612

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: LCSD-69874

Sample wt/vol: 30 (g/mL) G Lab File ID: E4H0582F.D

% Moisture: Decanted: (Y/N) Date Received:

Extraction: (Type) SONC Date Extracted: 12/21/2012

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/21/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0

GPC Cleanup:(Y/N) N pH: Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	5.4	
319-85-7	beta-BHC	5.6	
319-86-8	delta-BHC	5.8	
58-89-9	gamma-BHC (Lindane)	5.6	
76-44-8	Heptachlor	5.5	
309-00-2	Aldrin	5.6	
1024-57-3	Heptachlor epoxide	5.7	
959-98-8	Endosulfan I	5.8	
60-57-1	Dieldrin	12	
72-55-9	4,4´-DDE	12	
72-20-8	Endrin	12	
33213-65-9	Endosulfan II	12	
72-54-8	4,4´-DDD	12	
1031-07-8	Endosulfan sulfate	11	
50-29-3	4,4´-DDT	11	
72-43-5	Methoxychlor	58	
53494-70-5	Endrin ketone	12	
7421-93-4	Endrin aldehyde	11	
5103-71-9	alpha-Chlordane	5.8	
5103-74-2	gamma-Chlordane	5.8	
8001-35-2	Toxaphene	170	U

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
LCSD-69874(2)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2612 Mod. Ref No.: SDG No.: SL2612

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: LCSD-69874

Sample wt/vol: 30 (g/mL) G Lab File ID: E4H0582R.D

% Moisture: Decanted: (Y/N) Date Received:

Extraction: (Type) SONC Date Extracted: 12/21/2012

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/21/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0

GPC Cleanup:(Y/N) N pH: Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	5.8	
319-85-7	beta-BHC	6.0	
319-86-8	delta-BHC	6.1	
58-89-9	gamma-BHC (Lindane)	5.9	
76-44-8	Heptachlor	5.9	
309-00-2	Aldrin	5.9	
1024-57-3	Heptachlor epoxide	6.0	
959-98-8	Endosulfan I	5.9	
60-57-1	Dieldrin	12	
72-55-9	4,4´-DDE	12	
72-20-8	Endrin	12	
33213-65-9	Endosulfan II	12	
72-54-8	4,4´-DDD	12	
1031-07-8	Endosulfan sulfate	11	
50-29-3	4,4´-DDT	11	
72-43-5	Methoxychlor	56	
53494-70-5	Endrin ketone	11	
7421-93-4	Endrin aldehyde	11	
5103-71-9	alpha-Chlordane	5.9	
5103-74-2	gamma-Chlordane	6.0	
8001-35-2	Toxaphene	170	U

2P - FORM II PEST-2

SOIL PESTICIDE SURROGATE RECOVERY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2612 Mod. Ref No.: SDG No.: SL2612

GC Column(1): CLPPest ID: 0.53 (mm) GC Column(2): CLPPestII ID: 0.53 (mm)

	EPA SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	MB-69874	81	81	88	81			0
02	LCS-69874	83	82	90	84			0
03	LCSD-69874	79	78	87	81			0
04	SB-12(10-11)	57	58	63	62			0
05	SB-13(7-8)	81	64	68	66			0
06	SB-14(5-6)	63	62	70	63			0

	QC LIMITS
TCX = Tetrachloro-m-xylene	(14-113)
DCB = Decachlorobiphenyl	(55-130)

Column to be used to flag recovery values

* Values outside of QC limits

D Surrogate diluted out

som12.12.17.A

SW846

3M - FORM III PEST-3

SOIL PESTICIDE LABORATORY CONTROL SAMPLE RECOVERY

EPA SAMPLE NO.

LCS-69874

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2612 Mod. Ref No.: SDG No.: SL2612

Lab Sample ID: LCS-69874 LCS Lot No.: A085100

Date Extracted: 12/21/2012 Date Analyzed (1): 12/21/2012

Instrument ID (1): E4 GC Column(1): CLPPest ID: 0.53 (mm)

COMPOUND	AMOUNT ADDED (UG/KG)	AMOUNT RECOVERED (UG/KG)	%REC #	QC LIMITS
alpha-BHC	6.6670	5.6031	84	60-125
beta-BHC	6.6670	5.7995	87	60-125
delta-BHC	6.6670	6.0012	90	55-130
gamma-BHC (Lindane)	6.6670	5.8283	87	60-125
Heptachlor	6.6670	5.7800	87	50-140
Aldrin	6.6670	5.8490	88	45-140
Heptachlor epoxide	6.6670	5.8555	88	65-130
Endosulfan I	6.6670	5.8322	87	15-135
Dieldrin	13.3330	11.9796	90	65-125
4,4´-DDE	13.3330	11.8360	89	70-125
Endrin	13.3330	12.6764	95	60-135
Endosulfan II	13.3330	11.8754	89	35-140
4,4´-DDD	13.3330	12.1072	91	30-135
Endosulfan sulfate	13.3330	11.6835	88	60-135
4,4´-DDT	13.3330	11.0090	83	45-140
Methoxychlor	66.6670	59.4313	89	55-145
Endrin ketone	13.3330	12.1317	91	65-135
Endrin aldehyde	13.3330	11.7303	88	35-145
alpha-Chlordane	6.6670	5.8084	87	65-120
gamma-Chlordane	6.6670	5.8787	88	65-125

Instrument ID (2): E4 GC Column(2): CLPPestII ID: 0.53 (mm)

Date Analyzed (2): 12/21/2012

COMPOUND	AMOUNT ADDED (UG/KG)	AMOUNT RECOVERED (UG/KG)	%REC #	QC LIMITS
alpha-BHC	6.6670	5.9648	89	60-125
beta-BHC	6.6670	6.0850	91	60-125
delta-BHC	6.6670	6.1997	93	55-130
gamma-BHC (Lindane)	6.6670	6.0394	91	60-125

COMMENTS:

3M - FORM III PEST-3

SOIL PESTICIDE LABORATORY CONTROL SAMPLE RECOVERY

EPA SAMPLE NO.

LCS-69874

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2612 Mod. Ref No.: SDG No.: SL2612

Lab Sample ID: LCS-69874 LCS Lot No.: A085100

Date Extracted: 12/21/2012 Date Analyzed (1): 12/21/2012

Heptachlor	6.6670	6.0200	90	50-140
Aldrin	6.6670	5.9334	89	45-140
Heptachlor epoxide	6.6670	6.1097	92	65-130
Endosulfan I	6.6670	5.9643	89	15-135
Dieldrin	13.3330	12.0582	90	65-125
4,4´-DDE	13.3330	12.1362	91	70-125
Endrin	13.3330	12.4405	93	60-135
Endosulfan II	13.3330	11.8088	89	35-140
4,4´-DDD	13.3330	12.1883	91	30-135
Endosulfan sulfate	13.3330	11.3969	85	60-135
4,4´-DDT	13.3330	11.0108	83	45-140
Methoxychlor	66.6670	57.0049	86	55-145
Endrin ketone	13.3330	10.9111	82	65-135
Endrin aldehyde	13.3330	11.3123	85	35-145
alpha-Chlordane	6.6670	5.9762	90	65-120
gamma-Chlordane	6.6670	6.1059	92	65-125

Column to be used to flag recovery values with an asterisk

* Values outside of QC limits

LCS Recovery: 0 out of 40 outside limits.

COMMENTS:

3M - FORM III PEST-3
SOIL PESTICIDE LABORATORY CONTROL
SAMPLE DUPLICATE RECOVERY

EPA SAMPLE NO.
LCSD-69874

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2612 Mod. Ref No.: SDG No.: SL2612

Lab Sample ID: LCSD-69874 LCS Lot No.: A085100

Date Extracted: 12/21/2012 Date Analyzed (1): 12/21/2012

Instrument ID (1): E4 GC Column(1): CLPPest ID: 0.53 (mm)

COMPOUND	AMOUNT ADDED (UG/KG)	AMOUNT RECOVERED (UG/KG)	%REC #	QC LIMITS	%RPD #	RPD LIMIT
alpha-BHC	6.6670	5.4177	81	60-125	4.0	30
beta-BHC	6.6670	5.6185	84	60-125	4.0	30
delta-BHC	6.6670	5.7521	86	55-130	5.0	30
gamma-BHC (Lindane)	6.6670	5.6419	85	60-125	2.0	30
Heptachlor	6.6670	5.5457	83	50-140	5.0	30
Aldrin	6.6670	5.5981	84	45-140	5.0	30
Heptachlor epoxide	6.6670	5.7288	86	65-130	2.0	30
Endosulfan I	6.6670	5.7944	87	15-135	0	30
Dieldrin	13.3330	11.7112	88	65-125	2.0	30
4,4´-DDE	13.3330	11.6812	88	70-125	1.0	30
Endrin	13.3330	12.4399	93	60-135	2.0	30
Endosulfan II	13.3330	11.6463	87	35-140	2.0	30
4,4´-DDD	13.3330	12.0776	91	30-135	0	30
Endosulfan sulfate	13.3330	11.4053	86	60-135	2.0	30
4,4´-DDT	13.3330	10.7984	81	45-140	2.0	30
Methoxychlor	66.6670	57.9426	87	55-145	2.0	30
Endrin ketone	13.3330	11.8453	89	65-135	2.0	30
Endrin aldehyde	13.3330	11.3157	85	35-145	3.0	30
alpha-Chlordane	6.6670	5.7682	87	65-120	0	30
gamma-Chlordane	6.6670	5.8184	87	65-125	1.0	30

Instrument ID (2): E4 GC Column(2): CLPPestII ID: 0.53 (mm)

Date Analyzed (2): 12/21/2012

COMPOUND	AMOUNT ADDED (UG/KG)	AMOUNT RECOVERED (UG/KG)	%REC #	QC LIMITS	%RPD #	RPD LIMIT
alpha-BHC	6.6670	5.8457	88	60-125	1.0	30
beta-BHC	6.6670	6.0236	90	60-125	1.0	30
delta-BHC	6.6670	6.1058	92	55-130	1.0	30
gamma-BHC (Lindane)	6.6670	5.9301	89	60-125	2.0	30

COMMENTS:

3M - FORM III PEST-3

SOIL PESTICIDE LABORATORY CONTROL

SAMPLE DUPLICATE RECOVERY

EPA SAMPLE NO.

LCSD-69874

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2612 Mod. Ref No.: SDG No.: SL2612

Lab Sample ID: LCSD-69874 LCS Lot No.: A085100

Date Extracted: 12/21/2012 Date Analyzed (1): 12/21/2012

Heptachlor	6.6670	5.9330	89	50-140	1.0	30
Aldrin	6.6670	5.8851	88	45-140	1.0	30
Heptachlor epoxide	6.6670	6.0010	90	65-130	2.0	30
Endosulfan I	6.6670	5.8920	88	15-135	1.0	30
Dieldrin	13.3330	11.9201	89	65-125	1.0	30
4,4´-DDE	13.3330	12.0074	90	70-125	1.0	30
Endrin	13.3330	12.3241	92	60-135	1.0	30
Endosulfan II	13.3330	11.7169	88	35-140	1.0	30
4,4´-DDD	13.3330	12.0893	91	30-135	0	30
Endosulfan sulfate	13.3330	11.3282	85	60-135	0	30
4,4´-DDT	13.3330	10.9319	82	45-140	1.0	30
Methoxychlor	66.6670	56.2839	84	55-145	2.0	30
Endrin ketone	13.3330	10.8728	82	65-135	0	30
Endrin aldehyde	13.3330	11.4634	86	35-145	1.0	30
alpha-Chlordane	6.6670	5.9360	89	65-120	1.0	30
gamma-Chlordane	6.6670	6.0239	90	65-125	2.0	30

Column to be used to flag recovery values with an asterisk

* Values outside of QC limits

LCS Recovery: 0 out of 40 outside limits.

RPD: 0 out of 40 outside limits.

COMMENTS:

som12.12.17.A

4E - FORM IV PEST

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

MB-69874

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2612 Mod. Ref No.: SDG No.: SL2612

Lab File ID: E4H0580F.D / E4H0580R.D Lab Sample ID: MB-69874

Matrix: (SOIL/SED/WATER) SOIL Extraction: (Type) SONC Date Extracted: 12/21/2012

Sulfur Cleanup: (Y/N) Y GPC Cleanup:(Y/N) N

Date Analyzed (1): 12/21/2012 Date Analyzed (2): 12/21/2012

Time Analyzed (1): 16:15 Time Analyzed (2): 16:15

Instrument ID (1): E4 Instrument ID (2): E4

GC Column(1): CLPPest ID: 0.53 (mm) GC Column(2): CLPPestII ID: 0.53 (mm)

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED (1)	DATE ANALYZED (2)
01	LCS-69874	LCS-69874	12/21/2012	12/21/2012
02	LCSD-69874	LCSD-69874	12/21/2012	12/21/2012
03	SB-12(10-11)	L2612-04A	12/21/2012	12/21/2012
04	SB-13(7-8)	L2612-05A	12/21/2012	12/21/2012
05	SB-14(5-6)	L2612-13A	12/21/2012	12/21/2012

COMMENTS:

* PCB Organics *

REPORT NARRATIVE

Spectrum Analytical, Inc. Featuring Hanibal Technology, RI Division.

Client : ARCADIS U.S., Inc.

Project: S&S Dry Cleaners & Dyers

Laboratory Workorder / SDG #: L2612

SW846 8082A, PCB by GC-ECD

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code: SW846 8082A

IV. PREPARATION

Soil Samples were prepared following procedures in laboratory test code: SW3550

V. INSTRUMENTATION

The following instrumentation was used

Instrument Code: E2
Instrument Type: GC-ECD
Description: HP5890 II +
Manufacturer: Hewlett-Packard
Model: 5890
GC Column used: 30 m X 0.53 mm ID [0.50 um thickness] CLPPest capillary column.

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

Surrogate standard percent recoveries were within the QC limits.

D. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits.

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

No client-requested MS/MSD analyses were included in this SDG.

E. Dilutions:

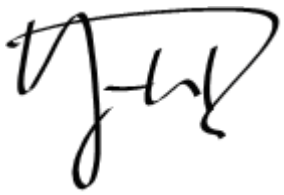
No sample in this SDG required analysis at dilution.

F. Samples:

The lower concentration between the primary and confirmatory GC column concentrations is reported due to the presence of interferences unless otherwise indicated. P flags are assigned to compounds when D% between the two columns are greater than 40%.

No other unusual occurrences were noted during sample analysis.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.



Signed:_____ _____

Date:_____1/7/2013_____

Data Flag/Qualifiers:

U Not Detected. This compound was analyzed-for but not detected. For most analyses the reporting limit (lowest standard concentration) is the value listed. For Department of Defense programs, this is the Limit of Detection (LOD).

J This flag indicates an estimated value due to either
- the compound was detected below the reporting limit, or
- estimated concentration for Tentatively Identified Compound

B This flag indicates the compound was also detected in the associated Method Blank. The B flag has an alternative meaning for Inorganics analyses reported using CLP ILM-type metals forms, indicating a "trace" concentration below the reporting limit and equal to or above the detection limit.

D For Organics analysis, this flag indicates the compound concentration was obtained from a secondary dilution analysis

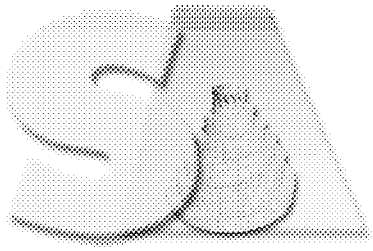
E This flag indicates the compound concentration exceeded the Calibration Range. The E flag has an alternative meaning for Inorganics analyses reported using CLP metals forms, indicating an estimated concentration due to the presence of interferences, as determined by the serial dilution analysis.

P This flag is used for pesticides/PCB/herbicide compound when there is a greater than 40% difference for detected concentration between the two GC columns used for primary and confirmation analyses. This difference typically indicates an interference, causing one value to be unusually high. The **lower** of the two values is generally reported on the Form 1, and both values reported on the Form 10.

A Used to flag semivolatile organic Tentatively Identified Compound library search results for compounds identified as aldol condensation byproducts.

N Used to flag results for volatile and semivolatile Organics analysis Tentatively Identified Compounds where an analyte has passed the identification criteria, and is considered to be positively identified. For Inorganics analysis the N flag indicates the matrix spike recovery falls outside of the control limit.

* For Inorganics analysis the * flag indicates Relative Percent Difference for duplicate analyses is outside of the control limit.



Sample ID Suffixes

DL Diluted analysis. The sample was diluted and reanalyzed. The DL may be followed by a digit if more than one diluted reanalysis is provided. The DL suffix is not attached to an analysis initially performed at dilution, only to reanalyses performed at dilution

RE Reanalysis. Appended to the client sample ID to indicate a reextraction and reanalysis or a reanalysis of the original sample extract.

RA Reanalysis. Appended to the laboratory sample ID indicates a reanalysis of the original sample extract.

RX Reextraction. Appended to the laboratory sample ID indicates a reextraction of the sample.

MS Matrix Spike.

MSD Matrix Spike Duplicate

DUP Duplicate analysis

SD Serial Dilution

PS Post-digestion or Post-distillation spike. For metals or inorganic analyses

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-12(10-11)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2612 Mod. Ref No.: SDG No.: SL2612

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L2612-04A

Sample wt/vol: 30.5 (g/mL) G Lab File ID: E2L7149F.D/E2L7149R.D

% Moisture: 20 Decanted: (Y/N) N Date Received: 12/20/2012

Extraction: (Type) SONC Date Extracted: 12/23/2012

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/26/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0

GPC Cleanup:(Y/N) N pH: Sulfur Cleanup: (Y/N) Y

Acid Cleanup:(Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	41	U
11104-28-2	Aroclor-1221	41	U
11141-16-5	Aroclor-1232	41	U
53469-21-9	Aroclor-1242	41	U
12672-29-6	Aroclor-1248	41	U
11097-69-1	Aroclor-1254	41	U
11096-82-5	Aroclor-1260	41	U
37324-23-5	Aroclor-1262	41	U
11100-14-4	Aroclor-1268	41	U

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-13(7-8)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2612 Mod. Ref No.: SDG No.: SL2612

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L2612-05A

Sample wt/vol: 30.1 (g/mL) G Lab File ID: E2L7150F.D/E2L7150R.D

% Moisture: 23 Decanted: (Y/N) N Date Received: 12/20/2012

Extraction: (Type) SONC Date Extracted: 12/23/2012

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/26/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0

GPC Cleanup:(Y/N) N pH: Sulfur Cleanup: (Y/N) Y

Acid Cleanup:(Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	43	U
11104-28-2	Aroclor-1221	43	U
11141-16-5	Aroclor-1232	43	U
53469-21-9	Aroclor-1242	43	U
12672-29-6	Aroclor-1248	43	U
11097-69-1	Aroclor-1254	43	U
11096-82-5	Aroclor-1260	43	U
37324-23-5	Aroclor-1262	43	U
11100-14-4	Aroclor-1268	43	U

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-14(5-6)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2612 Mod. Ref No.: SDG No.: SL2612

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L2612-13A

Sample wt/vol: 30.1 (g/mL) G Lab File ID: E2L7151F.D/E2L7151R.D

% Moisture: 23 Decanted: (Y/N) N Date Received: 12/20/2012

Extraction: (Type) SONC Date Extracted: 12/23/2012

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/26/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0

GPC Cleanup:(Y/N) N pH: Sulfur Cleanup: (Y/N) Y

Acid Cleanup:(Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	42	U
11104-28-2	Aroclor-1221	42	U
11141-16-5	Aroclor-1232	42	U
53469-21-9	Aroclor-1242	42	U
12672-29-6	Aroclor-1248	42	U
11097-69-1	Aroclor-1254	42	U
11096-82-5	Aroclor-1260	42	U
37324-23-5	Aroclor-1262	42	U
11100-14-4	Aroclor-1268	42	U

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MB-69883

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2612 Mod. Ref No.: SDG No.: SL2612

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: MB-69883

Sample wt/vol: 30.0 (g/mL) G Lab File ID: E2L7140F.D/E2L7140R.D

% Moisture: Decanted: (Y/N) Date Received:

Extraction: (Type) SONC Date Extracted: 12/23/2012

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/26/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0

GPC Cleanup:(Y/N) N pH: Sulfur Cleanup: (Y/N) Y

Acid Cleanup:(Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	33	U
11104-28-2	Aroclor-1221	33	U
11141-16-5	Aroclor-1232	33	U
53469-21-9	Aroclor-1242	33	U
12672-29-6	Aroclor-1248	33	U
11097-69-1	Aroclor-1254	33	U
11096-82-5	Aroclor-1260	33	U

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCS-69883(1)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2612 Mod. Ref No.: SDG No.: SL2612

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: LCS-69883

Sample wt/vol: 30 (g/mL) G Lab File ID: E2L7141F.D

% Moisture: Decanted: (Y/N) Date Received:

Extraction: (Type) SONC Date Extracted: 12/23/2012

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/26/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0

GPC Cleanup:(Y/N) N pH: Sulfur Cleanup: (Y/N) Y

Acid Cleanup:(Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	120	
11104-28-2	Aroclor-1221	33	U
11141-16-5	Aroclor-1232	33	U
53469-21-9	Aroclor-1242	33	U
12672-29-6	Aroclor-1248	33	U
11097-69-1	Aroclor-1254	33	U
11096-82-5	Aroclor-1260	120	

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCS-69883(2)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2612 Mod. Ref No.: SDG No.: SL2612

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: LCS-69883

Sample wt/vol: 30 (g/mL) G Lab File ID: E2L7141R.D

% Moisture: Decanted: (Y/N) Date Received:

Extraction: (Type) SONC Date Extracted: 12/23/2012

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/26/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0

GPC Cleanup:(Y/N) N pH: Sulfur Cleanup: (Y/N) Y

Acid Cleanup:(Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	120	
11104-28-2	Aroclor-1221	33	U
11141-16-5	Aroclor-1232	33	U
53469-21-9	Aroclor-1242	33	U
12672-29-6	Aroclor-1248	33	U
11097-69-1	Aroclor-1254	33	U
11096-82-5	Aroclor-1260	130	

2R - FORM II ARO-2

SOIL AROCLOR SURROGATE RECOVERY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2612 Mod. Ref No.: SDG No.: SL2612

GC Column(1): CLPPest ID: 0.53 (mm) GC Column(2): CLPPestII ID: 0.53 (mm)

	EPA SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	MB-69883	89	95	83	84			0
02	LCS-69883	96	103	85	89			0
03	SB-12(10-11)	72	76	78	73			0
04	SB-13(7-8)	77	81	78	76			0
05	SB-14(5-6)	73	77	79	74			0

	QC LIMITS
TCX = Tetrachloro-m-xylene	(34-147)
DCB = Decachlorobiphenyl	(60-125)

Column to be used to flag recovery values

* Values outside of QC limits

D Surrogate diluted out

som12.12.17.A

3P - FORM III ARO-4

SOIL AROCLOR LABORATORY CONTROL SAMPLE RECOVERY

EPA SAMPLE NO.

LCS-69883

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2612 Mod. Ref No.: SDG No.: SL2612

Lab Sample ID: LCS-69883 LCS Lot No.: A082781

Date Extracted: 12/23/2012 Date Analyzed (1): 12/26/2012

Instrument ID (1): E2 GC Column(1): CLPPest ID: 0.53 (mm)

COMPOUND	AMOUNT ADDED (UG/KG)	AMOUNT RECOVERED (UG/KG)	%REC	#	QC LIMITS
Aroclor-1016	133.3330	118.2785	89		40-140
Aroclor-1260	133.3330	116.5538	87		60-130

Instrument ID (2): E2 GC Column(2): CLPPestII ID: 0.53 (mm)

Date Analyzed (2): 12/26/2012

COMPOUND	AMOUNT ADDED (UG/KG)	AMOUNT RECOVERED (UG/KG)	%REC	#	QC LIMITS
Aroclor-1016	133.3330	122.4608	92		40-140
Aroclor-1260	133.3330	127.8839	96		60-130

Column to be used to flag recovery values with an asterisk

* Values outside of QC limits

LCS Recovery: 0 out of 4 outside limits.

COMMENTS:

som12.12.17.A

4F - FORM IV ARO

AROCLOR METHOD BLANK SUMMARY

EPA SAMPLE NO.

MB-69883

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2612 Mod. Ref No.: SDG No.: SL2612

Lab File ID: E2L7140F.D / E2L7140R.D Lab Sample ID: MB-69883

Matrix: (SOIL/SED/WATER) SOIL Extraction: (Type) SONC Date Extracted: 12/23/2012

Sulfur Cleanup: (Y/N) Y GPC Cleanup:(Y/N) N

Acid Cleanup: (Y/N Y

Date Analyzed (1): 12/26/2012 Date Analyzed (2): 12/26/2012

Time Analyzed (1): 11:30 Time Analyzed (2): 11:30

Instrument ID (1): E2 Instrument ID (2): E2

GC Column(1): CLPPest ID: 0.53 (mm) GC Column(2): CLPPestII ID: 0.53 (mm)

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED (1)	DATE ANALYZED (2)
01	LCS-69883	LCS-69883	12/26/2012	12/26/2012
02	SB-12(10-11)	L2612-04A	12/26/2012	12/26/2012
03	SB-13(7-8)	L2612-05A	12/26/2012	12/26/2012
04	SB-14(5-6)	L2612-13A	12/26/2012	12/26/2012

COMMENTS:



* Metals *

REPORT NARRATIVE

Spectrum Analytical, Inc. Featuring Hanibal Technology, RI Division.

Client : ARCADIS U.S., Inc.

Project: S&S Dry Cleaners & Dyers

Laboratory Workorder / SDG #: L2612

SW846 6010C, SW846 7471B

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code: SW846 6010C, SW846 7471B.

IV. PREPARATION

Soil Samples were prepared following procedures in laboratory test codes: SW3050B, SW7471B.

V. INSTRUMENTATION

The following instrumentation was used:

Instrument Code: FIMS2
Instrument Type: CVAA
Description: FIMS
Manufacturer: Perkin-Elmer
Model: FIMS100

Instrument Code: OPTIMA3
Instrument Type: ICP
Description: Optima ICP-OES
Manufacturer: Perkin-Elmer
Model: 4300 DV

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for laboratory control samples were within the QC limits.

2. Matrix spike (MS):

A matrix spike was not performed on any sample in this SDG.

D. Post Digestion Spike (PDS):

A post-digestion spike was not performed on any sample in this SDG.

E. Duplicate sample:

A duplicate analysis was not performed on any sample in this SDG.

F. Serial Dilution (SD):

A serial dilution was not performed on any sample in this SDG.

G. Samples:

No other unusual occurrences were noted during sample analysis.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Signed: 

Date: 01/07/13

Data Flag/Qualifiers:

U Not Detected. This compound was analyzed-for but not detected. For most analyses the reporting limit (lowest standard concentration) is the value listed. For Department of Defense programs, this is the Limit of Detection (LOD).

J This flag indicates an estimated value due to either
- the compound was detected below the reporting limit, or
- estimated concentration for Tentatively Identified Compound

B This flag indicates the compound was also detected in the associated Method Blank. The B flag has an alternative meaning for Inorganics analyses reported using CLP ILM-type metals forms, indicating a "trace" concentration below the reporting limit and equal to or above the detection limit.

D For Organics analysis, this flag indicates the compound concentration was obtained from a secondary dilution analysis

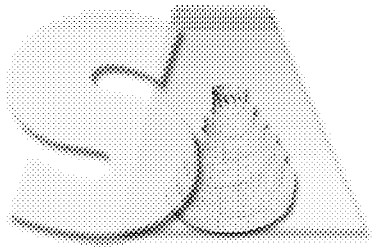
E This flag indicates the compound concentration exceeded the Calibration Range. The E flag has an alternative meaning for Inorganics analyses reported using CLP metals forms, indicating an estimated concentration due to the presence of interferences, as determined by the serial dilution analysis.

P This flag is used for pesticides/PCB/herbicide compound when there is a greater than 40% difference for detected concentration between the two GC columns used for primary and confirmation analyses. This difference typically indicates an interference, causing one value to be unusually high. The **lower** of the two values is generally reported on the Form 1, and both values reported on the Form 10.

A Used to flag semivolatile organic Tentatively Identified Compound library search results for compounds identified as aldol condensation byproducts.

N Used to flag results for volatile and semivolatile Organics analysis Tentatively Identified Compounds where an analyte has passed the identification criteria, and is considered to be positively identified. For Inorganics analysis the N flag indicates the matrix spike recovery falls outside of the control limit.

* For Inorganics analysis the * flag indicates Relative Percent Difference for duplicate analyses is outside of the control limit.



Sample ID Suffixes

DL Diluted analysis. The sample was diluted and reanalyzed. The DL may be followed by a digit if more than one diluted reanalysis is provided. The DL suffix is not attached to an analysis initially performed at dilution, only to reanalyses performed at dilution

RE Reanalysis. Appended to the client sample ID to indicate a reextraction and reanalysis or a reanalysis of the original sample extract.

RA Reanalysis. Appended to the laboratory sample ID indicates a reanalysis of the original sample extract.

RX Reextraction. Appended to the laboratory sample ID indicates a reextraction of the sample.

MS Matrix Spike.

MSD Matrix Spike Duplicate

DUP Duplicate analysis

SD Serial Dilution

PS Post-digestion or Post-distillation spike. For metals or inorganic analyses

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

SB-12(10-11)

Lab Name: Spectrum Analytical, Inc. Contract: 00266396.00

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL2612

Matrix (soil/water): SOIL Lab Sample ID: L2612-04

Level (low/med): MED Date Received: 12/20/2012

% Solids: 79.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	9570			P
7440-36-0	Antimony	0.42	U		P
7440-38-2	Arsenic	6.8			P
7440-39-3	Barium	66.1			P
7440-41-7	Beryllium	0.50			P
7440-43-9	Cadmium	0.017	U		P
7440-70-2	Calcium	49400			P
7440-70-2	Calcium	43100			P
7440-47-3	Chromium	13.0			P
7440-48-4	Cobalt	12.7			P
7440-50-8	Copper	33.4			P
7439-89-6	Iron	24200			P
7439-92-1	Lead	12.5			P
7439-95-4	Magnesium	12500			P
7439-96-5	Manganese	730			P
7439-97-6	Mercury	0.035	B		CV
7440-02-0	Nickel	23.3			P
7440-09-7	Potassium	1250			P
7782-49-2	Selenium	0.70	U		P
7440-22-4	Silver	0.070	U		P
7440-23-5	Sodium	172			P
7440-28-0	Thallium	0.51	B		P
7440-62-2	Vanadium	20.1			P
7440-66-6	Zinc	59.9			P

Comments:

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

SB-13(7-8)

Lab Name: Spectrum Analytical, Inc. Contract: 00266396.00

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL2612

Matrix (soil/water): SOIL Lab Sample ID: L2612-05

Level (low/med): MED Date Received: 12/20/2012

% Solids: 76.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	20400			P
7440-36-0	Antimony	0.46	U		P
7440-38-2	Arsenic	6.0			P
7440-39-3	Barium	109			P
7440-41-7	Beryllium	1.3			P
7440-43-9	Cadmium	0.018	U		P
7440-70-2	Calcium	1660			P
7440-47-3	Chromium	22.3			P
7440-48-4	Cobalt	19.0			P
7440-50-8	Copper	31.0			P
7439-89-6	Iron	42900			P
7439-92-1	Lead	13.0			P
7439-95-4	Magnesium	6170			P
7439-96-5	Manganese	319			P
7439-97-6	Mercury	0.035	B		CV
7440-02-0	Nickel	33.2			P
7440-09-7	Potassium	2030			P
7782-49-2	Selenium	0.77	U		P
7440-22-4	Silver	0.077	U		P
7440-23-5	Sodium	594			P
7440-28-0	Thallium	0.40	B		P
7440-62-2	Vanadium	38.5			P
7440-66-6	Zinc	85.3			P

Comments:

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

SB-14(5-6)

Lab Name: Spectrum Analytical, Inc. Contract: 00266396.00

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL2612

Matrix (soil/water): SOIL Lab Sample ID: L2612-13

Level (low/med): MED Date Received: 12/20/2012

% Solids: 77.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	22100			P
7440-36-0	Antimony	0.41	U		P
7440-38-2	Arsenic	2.7			P
7440-39-3	Barium	119			P
7440-41-7	Beryllium	0.96			P
7440-43-9	Cadmium	0.016	U		P
7440-70-2	Calcium	4780			P
7440-47-3	Chromium	22.5			P
7440-48-4	Cobalt	20.6			P
7440-50-8	Copper	19.6			P
7439-89-6	Iron	34200			P
7439-92-1	Lead	15.8			P
7439-95-4	Magnesium	6780			P
7439-96-5	Manganese	357			P
7439-97-6	Mercury	0.028	B		CV
7440-02-0	Nickel	27.3			P
7440-09-7	Potassium	2300			P
7782-49-2	Selenium	0.92	B		P
7440-22-4	Silver	0.069	U		P
7440-23-5	Sodium	644			P
7440-28-0	Thallium	0.24	U		P
7440-62-2	Vanadium	33.5			P
7440-66-6	Zinc	81.2			P

Comments:

7

LABORATORY CONTROL SAMPLE

Lab Name: Spectrum Analytical, Inc. Contract: 00266396.0000

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL2612

Solid LCS Source:

Aqueous LCS Source:

LCS(D) ID:
LCS-69915

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/Kg) True	Found	C	Limits		%R
Aluminum				455.0	440.3		364	546.0	96.8
Antimony				22.8	22.8		18.2	27.3	100.0
Arsenic				22.8	22.4		18.2	27.3	98.2
Barium				455.0	461.6		364	546.0	101.5
Beryllium				11.4	11.2		9.1	13.6	98.2
Cadmium				11.4	11.2		9.1	13.6	98.2
Calcium				1135.0	1066.1		908	1362.0	93.9
Chromium				45.5	44.2		36.4	54.6	97.1
Cobalt				113.5	111.2		90.8	136.2	98.0
Copper				56.5	54.9		45.2	67.8	97.2
Iron				227.5	217.6		182	273.0	95.6
Lead				22.8	22.2		18.2	27.3	97.4
Magnesium				1135.0	1129.7		908	1362.0	99.5
Manganese				113.5	113.0		90.8	136.2	99.6
Nickel				113.5	111.3		90.8	136.2	98.1
Potassium				1135.0	1125.9		908	1362.0	99.2
Selenium				22.8	21.8		18.2	27.3	95.6
Silver				56.5	55.0		42.4	67.8	97.3
Sodium				1135.0	1135.5		908	1362.0	100.0
Thallium				22.8	21.1		18.2	27.3	92.5
Vanadium				113.5	110.3		90.8	136.2	97.2
Zinc				113.5	110.9		90.8	136.2	97.7

7

LABORATORY CONTROL SAMPLE

Lab Name: Spectrum Analytical, Inc. Contract: 00266396.0000

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL2612

Solid LCS Source: LCS(D) ID:

Aqueous LCS Source: **LCS-69918**

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/Kg) True	Found	C	Limits		%R
Mercury				0.8	0.8		0.6	0.9	100.0

BLANKS

Lab Name: Spectrum Analytical, Inc. Contract: 00266396.0000

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL2612

Preparation Blank Matrix (soil/water): SOIL

Method Blank ID: **MB-69918**

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

FIMS2_121227A

	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		
Analyte		C	12/27/12 10:48	C	12/27/12 11:06	C	12/27/12 11:24	C		C	M
Mercury	0.028	U	0.028	U	0.028	U	0.028	U	0.002	U	CV

U.S. EPA - CLP

3

BLANKS

Lab Name: Spectrum Analytical, Inc. Contract: 00266396.0000

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL2612

Preparation Blank Matrix (soil/water): Method Blank ID:

Preparation Blank Concentration Units (ug/L or mg/kg):

FIMS2_121227A

	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		
Analyte		C	12/27/12 11:43	C	12/27/12 11:59	C		C		C	M
Mercury			0.028	U	0.028	U					CV

3

BLANKS

Lab Name: Spectrum Analytical, Inc. Contract: 00266396.0000

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL2612

Preparation Blank Matrix (soil/water): SOIL

Method Blank ID: **MB-69915**

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

OPTIMA3_121227B

Analyte	Initial Calibration Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 12/27/12 9:56	C	12/27/12 10:33	C		C	Preparation Blank	C	M
Aluminum	66.0	U	66.0	U	66.0	U			1.200	U	P
Antimony	9.3	U	9.3	U	9.3	U			0.586	B	P
Arsenic	4.3	U	4.3	U	4.3	U			0.410	U	P
Barium	1.1	B	1.1	U	1.1	U			0.031	U	P
Beryllium	0.3	U	0.3	U	0.3	U			0.002	U	P
Cadmium	0.9	U	0.9	U	0.9	U			0.015	U	P
Calcium	110.0	U	110.0	U	110.0	U			6.100	U	P
Chromium	0.6	U	0.6	U	0.6	U			0.027	B	P
Cobalt	0.7	U	0.7	U	0.7	U			0.044	U	P
Copper	3.6	U	3.6	U	3.6	U			0.206	B	P
Iron	31.0	U	31.0	U	31.0	U			1.500	U	P
Lead	4.2	U	4.2	U	4.2	U			0.170	U	P
Magnesium	76.0	U	76.0	U	76.0	U			0.630	U	P
Manganese	10.0	U	10.0	U	10.0	U			0.130	U	P
Nickel	0.9	U	0.8	U	0.8	U			0.043	U	P
Potassium	76.0	U	76.0	U	145.4	B			3.400	U	P
Selenium	12.0	U	12.0	U	12.0	U			0.640	U	P
Silver	6.9	U	6.9	U	6.9	U			0.175	B	P
Sodium	29.0	U	88.1	B	-65.1	B			1.100	U	P
Thallium	6.2	U	6.2	U	6.2	U			0.220	U	P
Vanadium	1.1	U	1.1	U	1.1	U			0.060	U	P
Zinc	4.9	U	4.9	U	4.9	U			0.180	U	P

Report Date:
08-Jan-13 11:58

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

☑ Final Report
☐ Re-Issued Report
☐ Revised Report

Laboratory Report

ARCADIS U.S., Inc.
855 Route 146, Suite 210
Clifton Park, NY 12065

Work Order: L2631
Project : S&S Dry Cleaners & Dyers
Project #: 0266396.0000

Attn: Andy Vitolins

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
L2631-01	SB-15(5-6)	Soil	20-Dec-12 08:50	21-Dec-12 13:30
L2631-02	SB-15(7-8)	Soil	20-Dec-12 08:55	21-Dec-12 13:30
L2631-03	SB-15(9-10)	Soil	20-Dec-12 09:00	21-Dec-12 13:30
L2631-04	SB-16(5-6)	Soil	20-Dec-12 09:40	21-Dec-12 13:30
L2631-05	SB-16(6-7)	Soil	20-Dec-12 09:41	21-Dec-12 13:30
L2631-06	SB-16(8-9)	Soil	20-Dec-12 09:42	21-Dec-12 13:30
L2631-07	SB-16(9-10)	Soil	20-Dec-12 09:44	21-Dec-12 13:30
L2631-08	SB-16(10-11)	Soil	20-Dec-12 09:45	21-Dec-12 13:30
L2631-09	SB-17(1-2)	Soil	20-Dec-12 10:10	21-Dec-12 13:30
L2631-10	SB-17(5-6)	Soil	20-Dec-12 10:25	21-Dec-12 13:30
L2631-11	SB-17(6-7)	Soil	20-Dec-12 10:27	21-Dec-12 13:30
L2631-12	SB-17(7-8)	Soil	20-Dec-12 10:29	21-Dec-12 13:30
L2631-13	SB-17(8-9)	Soil	20-Dec-12 10:30	21-Dec-12 13:30
L2631-14	SB-18(1-2)	Soil	20-Dec-12 11:00	21-Dec-12 13:30
L2631-15	SB-18(6-7)	Soil	20-Dec-12 11:10	21-Dec-12 13:30
L2631-16	SB-18(8-9)	Soil	20-Dec-12 11:13	21-Dec-12 13:30
L2631-17	SB-18(11-12)	Soil	20-Dec-12 11:15	21-Dec-12 13:30
L2631-18	SB-19(2-3)	Soil	20-Dec-12 11:50	21-Dec-12 13:30
L2631-19	SB-19(7-8)	Soil	20-Dec-12 12:00	21-Dec-12 13:30
L2631-20	SB-19(9-10)	Soil	20-Dec-12 12:05	21-Dec-12 13:30

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. The results relate only to the samples(s) as received. This report may not be reproduced, except in full, without written approval from Spectrum Analytical.

All applicable NELAC or USEPA CLP requirments have been meet.

Spectrum Analytical (Rhode Island) is accredited under the National Environmental Laboratory Approval Program (NELAP) and DoD Environmental Laboratory Accreditation Program (ELAP), holds Organic and Inorganic contracts under the USEPA CLP Program and is certified under several states. The current list of our laboratory approvals and certifications is available on the Certifications page on our web site at www.spectrum-analytical.com.

Please contact the Laboratory or Technical Director at 401-732-3400 with any questions regarding the data contained in the laboratory report.

Department of Defense	N/A
Connecticut	PH-0153
Delaware	N/A
Florida	E87664
Maine	2007037
Massachusetts	M-RI907
New Hampshire	2631
New Jersey	RI001
New York	11522
North Carolina	581
Rhode Island	LAI00301
USDA	P330-08-00023
USEPA - ISM	EP-W-09-039
USEPA - SOM	EP-W-11-033

NELAP ACCREDITED TNI LABORATORY

LABORATORY ACCREDITATION BUREAU ACCREDITED
Certificate # L2247 Testing

Authorized by:

Yihai Ding
Laboratory Director



SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

* Data Summary Pack *

175 Metro Center Boulevard · Warwick, RI 02886-1755 · 401-732-3400 · FAX 401-732-3499
www.spectrum-analytical.com

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

New York State Department of Environmental Conservation
Sample Identification and Analytical Requirements Summary

Project Name : S&S Dry Cleaners & Dyers -- 0266396.0000 **SDG :** L2631

Customer Sample ID	Laboratory Sample ID	Analytical Requirements				
		MSVOA Method #	MSSEMI Method #	GC* Method #	ME	Other
SB-15(5-6)	L2631-01	SW8260_LOW_S	SW8270_S	SW8081_S	SW6010_S	
SB-15(5-6)	L2631-01			SW8082_S	SW7471	
SB-15(7-8)	L2631-02	SW8260_LOW_S				
SB-15(9-10)	L2631-03	SW8260_LOW_S				
SB-16(5-6)	L2631-04	SW8260_LOW_S				
SB-16(6-7)	L2631-05	SW8260_LOW_S				
SB-16(8-9)	L2631-06	SW8260_LOW_S				
SB-16(9-10)	L2631-07	SW8260_LOW_S	SW8270_S	SW8081_S	SW6010_S	
SB-16(9-10)	L2631-07			SW8082_S	SW7471	
SB-16(10-11)	L2631-08	SW8260_LOW_S				
SB-17(1-2)	L2631-09	SW8260_LOW_S				
SB-17(5-6)	L2631-10	SW8260_LOW_S				
SB-17(6-7)	L2631-11	SW8260_LOW_S				
SB-17(7-8)	L2631-12	SW8260_LOW_S				
SB-17(8-9)	L2631-13	SW8260_LOW_S	SW8270_S	SW8081_S	SW6010_S	
SB-17(8-9)	L2631-13			SW8082_S	SW7471	
SB-18(1-2)	L2631-14	SW8260_LOW_S				
SB-18(6-7)	L2631-15	SW8260_LOW_S	SW8270_S	SW8081_S	SW6010_S	
SB-18(6-7)	L2631-15			SW8082_S	SW7471	
SB-18(8-9)	L2631-16	SW8260_LOW_S				
SB-18(11-12)	L2631-17	SW8260_LOW_S				
SB-19(2-3)	L2631-18	SW8260_LOW_S				
SB-19(7-8)	L2631-19	SW8260_LOW_S	SW8270_S	SW8081_S	SW6010_S	
SB-19(7-8)	L2631-19			SW8082_S	SW7471	
SB-19(9-10)	L2631-20	SW8260_LOW_S				

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

New York State Department of Environmental Conservation
Sample Preparation and Analysis Summary MSVOA

Project Name : S&S Dry Cleaners & Dyers -- 0266396.0000 **SDG :** L2631

Laboratory Sample ID	Matrix	Date Collected	Date Received By Lab	Date Extracted	Date Analyzed
SW8260_LOW_S					
L2631-01C	SL	12/20/2012	12/21/2012	NA	12/26/2012
L2631-01CMS	SL	12/20/2012	12/21/2012	NA	12/26/2012
L2631-01CMSD	SL	12/20/2012	12/21/2012	NA	12/26/2012
L2631-02A	SL	12/20/2012	12/21/2012	NA	12/26/2012
L2631-03A	SL	12/20/2012	12/21/2012	NA	12/27/2012
L2631-04A	SL	12/20/2012	12/21/2012	NA	12/26/2012
L2631-05A	SL	12/20/2012	12/21/2012	NA	12/26/2012
L2631-06A	SL	12/20/2012	12/21/2012	NA	12/27/2012
L2631-07C	SL	12/20/2012	12/21/2012	NA	12/27/2012
L2631-08A	SL	12/20/2012	12/21/2012	NA	12/27/2012
L2631-09A	SL	12/20/2012	12/21/2012	NA	12/26/2012
L2631-10A	SL	12/20/2012	12/21/2012	NA	12/26/2012
L2631-11A	SL	12/20/2012	12/21/2012	NA	12/26/2012
L2631-12A	SL	12/20/2012	12/21/2012	NA	12/26/2012
L2631-13C	SL	12/20/2012	12/21/2012	NA	12/26/2012
L2631-14A	SL	12/20/2012	12/21/2012	NA	12/26/2012
L2631-15C	SL	12/20/2012	12/21/2012	NA	12/26/2012
L2631-16A	SL	12/20/2012	12/21/2012	NA	12/26/2012
L2631-17A	SL	12/20/2012	12/21/2012	NA	12/27/2012
L2631-17AMS	SL	12/20/2012	12/21/2012	NA	12/27/2012
L2631-17AMSD	SL	12/20/2012	12/21/2012	NA	12/28/2012
L2631-18A	SL	12/20/2012	12/21/2012	NA	12/27/2012
L2631-19C	SL	12/20/2012	12/21/2012	NA	12/27/2012
L2631-20A	SL	12/20/2012	12/21/2012	NA	12/27/2012

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

New York State Department of Environmental Conservation
Sample Preparation and Analysis Summary MSSEMI

Project Name : S&S Dry Cleaners & Dyers -- 0266396.0000 **SDG :** L2631

Laboratory Sample ID	Matrix	Date Collected	Date Received By Lab	Date Extracted	Date Analyzed
SW8270_S					
L2631-01A	SL	12/20/2012	12/21/2012	12/28/2012	12/28/2012
L2631-01AMS	SL	12/20/2012	12/21/2012	12/28/2012	12/28/2012
L2631-01AMSD	SL	12/20/2012	12/21/2012	12/28/2012	12/28/2012
L2631-07A	SL	12/20/2012	12/21/2012	12/28/2012	12/28/2012
L2631-13A	SL	12/20/2012	12/21/2012	12/28/2012	12/28/2012
L2631-15A	SL	12/20/2012	12/21/2012	12/28/2012	12/28/2012
L2631-19A	SL	12/20/2012	12/21/2012	12/28/2012	12/28/2012

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

New York State Department of Environmental Conservation
Sample Preparation and Analysis Summary GC*

Project Name : S&S Dry Cleaners & Dyers -- 0266396.0000 **SDG :** L2631

Laboratory Sample ID	Matrix	Date Collected	Date Received By Lab	Date Extracted	Date Analyzed
SW8081_S					
L2631-01A	SL	12/20/2012	12/21/2012	12/28/2012	12/28/2012
L2631-01AMS	SL	12/20/2012	12/21/2012	12/28/2012	12/28/2012
L2631-01AMSD	SL	12/20/2012	12/21/2012	12/28/2012	12/28/2012
L2631-07A	SL	12/20/2012	12/21/2012	12/28/2012	12/28/2012
L2631-13A	SL	12/20/2012	12/21/2012	12/28/2012	12/28/2012
L2631-15A	SL	12/20/2012	12/21/2012	12/28/2012	12/28/2012
L2631-19A	SL	12/20/2012	12/21/2012	12/28/2012	12/28/2012
SW8082_S					
L2631-01A	SL	12/20/2012	12/21/2012	12/28/2012	12/28/2012
L2631-01AMS	SL	12/20/2012	12/21/2012	12/28/2012	12/28/2012
L2631-01AMSD	SL	12/20/2012	12/21/2012	12/28/2012	12/28/2012
L2631-07A	SL	12/20/2012	12/21/2012	12/28/2012	12/28/2012
L2631-13A	SL	12/20/2012	12/21/2012	12/28/2012	12/28/2012
L2631-15A	SL	12/20/2012	12/21/2012	12/28/2012	12/28/2012
L2631-19A	SL	12/20/2012	12/21/2012	12/28/2012	12/28/2012

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

New York State Department of Environmental Conservation
Sample Preparation and Analysis Summary MSVOA

Project Name : S&S Dry Cleaners & Dyers -- 0266396.0000 **SDG :** L2631

Laboratory Sample ID	Matrix	Analytical Protocol	Extraction Method	Low/Medium Level	Dil/Conc Factor
SW8260_LOW_S					
L2631-01C	SL	SW8260_LOW_S	NA	LOW	1
L2631-01CMS	SL	SW8260_LOW_S	NA	LOW	1
L2631-01CMSD	SL	SW8260_LOW_S	NA	LOW	1
L2631-02A	SL	SW8260_LOW_S	NA	LOW	1
L2631-03A	SL	SW8260_LOW_S	NA	LOW	1
L2631-04A	SL	SW8260_LOW_S	NA	LOW	1
L2631-05A	SL	SW8260_LOW_S	NA	LOW	1
L2631-06A	SL	SW8260_LOW_S	NA	LOW	1
L2631-07C	SL	SW8260_LOW_S	NA	LOW	1
L2631-08A	SL	SW8260_LOW_S	NA	LOW	1
L2631-09A	SL	SW8260_LOW_S	NA	LOW	1
L2631-10A	SL	SW8260_LOW_S	NA	LOW	1
L2631-11A	SL	SW8260_LOW_S	NA	LOW	1
L2631-12A	SL	SW8260_LOW_S	NA	LOW	1
L2631-13C	SL	SW8260_LOW_S	NA	LOW	1
L2631-14A	SL	SW8260_LOW_S	NA	LOW	1
L2631-15C	SL	SW8260_LOW_S	NA	LOW	1
L2631-16A	SL	SW8260_LOW_S	NA	LOW	1
L2631-17A	SL	SW8260_LOW_S	NA	LOW	1
L2631-17AMS	SL	SW8260_LOW_S	NA	LOW	1
L2631-17AMSD	SL	SW8260_LOW_S	NA	LOW	1
L2631-18A	SL	SW8260_LOW_S	NA	LOW	1
L2631-19C	SL	SW8260_LOW_S	NA	LOW	1
L2631-20A	SL	SW8260_LOW_S	NA	LOW	1

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

New York State Department of Environmental Conservation
Sample Preparation and Analysis Summary MSSEMI

Project Name : S&S Dry Cleaners & Dyers -- 0266396.0000 **SDG :** L2631

Laboratory Sample ID	Matrix	Analytical Protocol	Extraction Method	Auxiliary Cleanup	Dil/Conc Factor
SW8270_S					
L2631-01A	SL	SW8270_S	3550B	NA	1
L2631-01AMS	SL	SW8270_S	3550B	NA	1
L2631-01AMSD	SL	SW8270_S	3550B	NA	1
L2631-07A	SL	SW8270_S	3550B	NA	1
L2631-13A	SL	SW8270_S	3550B	NA	1
L2631-15A	SL	SW8270_S	3550B	NA	1
L2631-19A	SL	SW8270_S	3550B	NA	1

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

New York State Department of Environmental Conservation
Sample Preparation and Analysis Summary GC*

Project Name : S&S Dry Cleaners & Dyers -- 0266396.0000 **SDG :** L2631

Laboratory Sample ID	Matrix	Analytical Protocol	Extraction Method	Auxiliary Cleanup	Dil/Conc Factor
SW8081_S					
L2631-01A	SL	SW8081_S	3550B	Sulfur	1
L2631-01AMS	SL	SW8081_S	3550B	Sulfur	1
L2631-01AMSD	SL	SW8081_S	3550B	Sulfur	1
L2631-07A	SL	SW8081_S	3550B	Sulfur	1
L2631-13A	SL	SW8081_S	3550B	Sulfur	1
L2631-15A	SL	SW8081_S	3550B	Sulfur	1
L2631-19A	SL	SW8081_S	3550B	Sulfur	1
SW8082_S					
L2631-01A	SL	SW8082_S	3550B	Acid/Sulfur	1
L2631-01AMS	SL	SW8082_S	3550B	Acid/Sulfur	1
L2631-01AMSD	SL	SW8082_S	3550B	Acid/Sulfur	1
L2631-07A	SL	SW8082_S	3550B	Acid/Sulfur	1
L2631-13A	SL	SW8082_S	3550B	Acid/Sulfur	1
L2631-15A	SL	SW8082_S	3550B	Acid/Sulfur	1
L2631-19A	SL	SW8082_S	3550B	Acid/Sulfur	1

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

New York State Department of Environmental Conservation
Sample Preparation and Analysis Summary ME

Project Name : S&S Dry Cleaners & Dyers -- 0266396.0000 **SDG :** L2631

Laboratory Sample ID	Matrix	Metals Requested	Date Received By Lab	Date Analyzed
SW6010_S				
L2631-01B	SL	SW6010_S	12/21/2012	1/2/2013
L2631-01BDUP	SL	SW6010_S	12/21/2012	1/2/2013
L2631-01BMS	SL	SW6010_S	12/21/2012	1/2/2013
L2631-07B	SL	SW6010_S	12/21/2012	1/2/2013
L2631-13B	SL	SW6010_S	12/21/2012	1/2/2013
L2631-15B	SL	SW6010_S	12/21/2012	1/2/2013
L2631-19B	SL	SW6010_S	12/21/2012	1/2/2013
SW7471				
L2631-01B	SL	SW7471	12/21/2012	1/3/2013
L2631-01BDUP	SL	SW7471	12/21/2012	1/3/2013
L2631-01BMS	SL	SW7471	12/21/2012	1/3/2013
L2631-07B	SL	SW7471	12/21/2012	1/3/2013
L2631-13B	SL	SW7471	12/21/2012	1/3/2013
L2631-15B	SL	SW7471	12/21/2012	1/3/2013
L2631-19B	SL	SW7471	12/21/2012	1/3/2013

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

WorkOrder: L2631

Client ID: MALCOLM_LATHAM
Project: S&S Dry Cleaners & Dyers
WO Name: S&S Dry Cleaners & Dyers
Location: ARCADIS_COHOES, 0266396.0000
Comments: N/A

Case:
SDG:
PO: 00266396.0000

HC Due: 01/08/13
Fax Due:
Fax Report: ☐

Report Level: ASP-B
Special Program:
EDD: EQUIIS_4_NYSDEC

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
L2631-01A	SB-15(5-6)	12/20/2012 08:50	12/21/2012	Soil	PMoist	/			Y		A4
L2631-01A	SB-15(5-6)	12/20/2012 08:50	12/21/2012	Soil	SW8081_S	/			Y		A4
L2631-01A	SB-15(5-6)	12/20/2012 08:50	12/21/2012	Soil	SW8082_S	/ +AR1262,1268			Y	Y	A4
L2631-01A	SB-15(5-6)	12/20/2012 08:50	12/21/2012	Soil	SW8270_S	/ SOM List			Y	Y	A4
L2631-01B	SB-15(5-6)	12/20/2012 08:50	12/21/2012	Soil	SW6010_S	/ TAL			Y	Y	A4
L2631-01B	SB-15(5-6)	12/20/2012 08:50	12/21/2012	Soil	SW7471	/ TAL			Y		A4
L2631-01C	SB-15(5-6)	12/20/2012 08:50	12/21/2012	Soil	SW8260_LOW_S	/ SOM List			Y	Y	VOA
L2631-01C	SB-15(5-6)	12/20/2012 08:50	12/21/2012	Soil	SW8260_MED_S	/ SOM List		Y	Y	Y	VOA
L2631-02A	SB-15(7-8)	12/20/2012 08:55	12/21/2012	Soil	PMoist	/					VOA
L2631-02A	SB-15(7-8)	12/20/2012 08:55	12/21/2012	Soil	SW8260_LOW_S	/ SOM List				Y	VOA
L2631-02A	SB-15(7-8)	12/20/2012 08:55	12/21/2012	Soil	SW8260_MED_S	/ SOM List		Y		Y	VOA
L2631-03A	SB-15(9-10)	12/20/2012 09:00	12/21/2012	Soil	PMoist	/					VOA
L2631-03A	SB-15(9-10)	12/20/2012 09:00	12/21/2012	Soil	SW8260_LOW_S	/ SOM List				Y	VOA
L2631-03A	SB-15(9-10)	12/20/2012 09:00	12/21/2012	Soil	SW8260_MED_S	/ SOM List		Y		Y	VOA
L2631-04A	SB-16(5-6)	12/20/2012 09:40	12/21/2012	Soil	PMoist	/					VOA
L2631-04A	SB-16(5-6)	12/20/2012 09:40	12/21/2012	Soil	SW8260_LOW_S	/ SOM List				Y	VOA
L2631-04A	SB-16(5-6)	12/20/2012 09:40	12/21/2012	Soil	SW8260_MED_S	/ SOM List		Y		Y	VOA
L2631-05A	SB-16(6-7)	12/20/2012 09:41	12/21/2012	Soil	PMoist	/					VOA
L2631-05A	SB-16(6-7)	12/20/2012 09:41	12/21/2012	Soil	SW8260_LOW_S	/ SOM List				Y	VOA
L2631-05A	SB-16(6-7)	12/20/2012 09:41	12/21/2012	Soil	SW8260_MED_S	/ SOM List		Y		Y	VOA
L2631-06A	SB-16(8-9)	12/20/2012 09:42	12/21/2012	Soil	PMoist	/					VOA
L2631-06A	SB-16(8-9)	12/20/2012 09:42	12/21/2012	Soil	SW8260_LOW_S	/ SOM List				Y	VOA
L2631-06A	SB-16(8-9)	12/20/2012 09:42	12/21/2012	Soil	SW8260_MED_S	/ SOM List		Y		Y	VOA

HF = Fraction logged in but all tests have been placed on hold

HT = Test logged in but has been placed on hold

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

WorkOrder: L2631

Client ID: MALCOLM_LATHAM
Project: S&S Dry Cleaners & Dyers
WO Name: S&S Dry Cleaners & Dyers
Location: ARCADIS_COHOES, 0266396.0000
Comments: N/A

Case:
SDG:
PO: 00266396.0000

HC Due: 01/08/13
Fax Due:
Fax Report: ☐

Report Level: ASP-B
Special Program:
EDD: EQUIIS_4_NYSDEC

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
L2631-07A	SB-16(9-10)	12/20/2012 09:44	12/21/2012	Soil	PMoist	/					A4
L2631-07A	SB-16(9-10)	12/20/2012 09:44	12/21/2012	Soil	SW8081_S	/					A4
L2631-07A	SB-16(9-10)	12/20/2012 09:44	12/21/2012	Soil	SW8082_S	/ +AR1262,1268				Y	A4
L2631-07A	SB-16(9-10)	12/20/2012 09:44	12/21/2012	Soil	SW8270_S	/ SOM List				Y	A4
L2631-07B	SB-16(9-10)	12/20/2012 09:44	12/21/2012	Soil	SW6010_S	/ TAL				Y	A4
L2631-07B	SB-16(9-10)	12/20/2012 09:44	12/21/2012	Soil	SW7471	/ TAL					A4
L2631-07C	SB-16(9-10)	12/20/2012 09:44	12/21/2012	Soil	SW8260_LOW_S	/ SOM List				Y	VOA
L2631-07C	SB-16(9-10)	12/20/2012 09:44	12/21/2012	Soil	SW8260_MED_S	/ SOM List		Y		Y	VOA
L2631-08A	SB-16(10-11)	12/20/2012 09:45	12/21/2012	Soil	PMoist	/					VOA
L2631-08A	SB-16(10-11)	12/20/2012 09:45	12/21/2012	Soil	SW8260_LOW_S	/ SOM List				Y	VOA
L2631-08A	SB-16(10-11)	12/20/2012 09:45	12/21/2012	Soil	SW8260_MED_S	/ SOM List		Y		Y	VOA
L2631-09A	SB-17(1-2)	12/20/2012 10:10	12/21/2012	Soil	PMoist	/					VOA
L2631-09A	SB-17(1-2)	12/20/2012 10:10	12/21/2012	Soil	SW8260_LOW_S	/ SOM List				Y	VOA
L2631-09A	SB-17(1-2)	12/20/2012 10:10	12/21/2012	Soil	SW8260_MED_S	/ SOM List		Y		Y	VOA
L2631-10A	SB-17(5-6)	12/20/2012 10:25	12/21/2012	Soil	PMoist	/					VOA
L2631-10A	SB-17(5-6)	12/20/2012 10:25	12/21/2012	Soil	SW8260_LOW_S	/ SOM List				Y	VOA
L2631-10A	SB-17(5-6)	12/20/2012 10:25	12/21/2012	Soil	SW8260_MED_S	/ SOM List		Y		Y	VOA
L2631-11A	SB-17(6-7)	12/20/2012 10:27	12/21/2012	Soil	PMoist	/					VOA
L2631-11A	SB-17(6-7)	12/20/2012 10:27	12/21/2012	Soil	SW8260_LOW_S	/ SOM List				Y	VOA
L2631-11A	SB-17(6-7)	12/20/2012 10:27	12/21/2012	Soil	SW8260_MED_S	/ SOM List		Y		Y	VOA
L2631-12A	SB-17(7-8)	12/20/2012 10:29	12/21/2012	Soil	PMoist	/					VOA
L2631-12A	SB-17(7-8)	12/20/2012 10:29	12/21/2012	Soil	SW8260_LOW_S	/ SOM List				Y	VOA

HF = Fraction logged in but all tests have been placed on hold

HT = Test logged in but has been placed on hold

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

WorkOrder: L2631

Client ID: MALCOLM_LATHAM
Project: S&S Dry Cleaners & Dyers
WO Name: S&S Dry Cleaners & Dyers
Location: ARCADIS_COHOES, 0266396.0000
Comments: N/A

Case:
SDG:
PO: 00266396.0000

HC Due: 01/08/13
Fax Due:
Fax Report: ☐

Report Level: ASP-B
Special Program:
EDD: EQUIIS_4_NYSDEC

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
L2631-12A	SB-17(7-8)	12/20/2012 10:29	12/21/2012	Soil	SW8260_MED_S	/ SOM List		Y		Y	VOA
L2631-13A	SB-17(8-9)	12/20/2012 10:30	12/21/2012	Soil	PMoist	/					A4
L2631-13A	SB-17(8-9)	12/20/2012 10:30	12/21/2012	Soil	SW8081_S	/					A4
L2631-13A	SB-17(8-9)	12/20/2012 10:30	12/21/2012	Soil	SW8082_S	/ +AR1262,1268				Y	A4
L2631-13A	SB-17(8-9)	12/20/2012 10:30	12/21/2012	Soil	SW8270_S	/ SOM List				Y	A4
L2631-13B	SB-17(8-9)	12/20/2012 10:30	12/21/2012	Soil	SW6010_S	/ TAL				Y	A4
L2631-13B	SB-17(8-9)	12/20/2012 10:30	12/21/2012	Soil	SW7471	/ TAL					A4
L2631-13C	SB-17(8-9)	12/20/2012 10:30	12/21/2012	Soil	SW8260_LOW_S	/ SOM List				Y	VOA
L2631-13C	SB-17(8-9)	12/20/2012 10:30	12/21/2012	Soil	SW8260_MED_S	/ SOM List		Y		Y	VOA
L2631-14A	SB-18(1-2)	12/20/2012 11:00	12/21/2012	Soil	PMoist	/					VOA
L2631-14A	SB-18(1-2)	12/20/2012 11:00	12/21/2012	Soil	SW8260_LOW_S	/ SOM List				Y	VOA
L2631-14A	SB-18(1-2)	12/20/2012 11:00	12/21/2012	Soil	SW8260_MED_S	/ SOM List		Y		Y	VOA
L2631-15A	SB-18(6-7)	12/20/2012 11:10	12/21/2012	Soil	PMoist	/					A4
L2631-15A	SB-18(6-7)	12/20/2012 11:10	12/21/2012	Soil	SW8081_S	/					A4
L2631-15A	SB-18(6-7)	12/20/2012 11:10	12/21/2012	Soil	SW8082_S	/ +AR1262,1268				Y	A4
L2631-15A	SB-18(6-7)	12/20/2012 11:10	12/21/2012	Soil	SW8270_S	/ SOM List				Y	A4
L2631-15B	SB-18(6-7)	12/20/2012 11:10	12/21/2012	Soil	SW6010_S	/ TAL				Y	A4
L2631-15B	SB-18(6-7)	12/20/2012 11:10	12/21/2012	Soil	SW7471	/ TAL					A4
L2631-15C	SB-18(6-7)	12/20/2012 11:10	12/21/2012	Soil	SW8260_LOW_S	/ SOM List				Y	VOA
L2631-15C	SB-18(6-7)	12/20/2012 11:10	12/21/2012	Soil	SW8260_MED_S	/ SOM List		Y		Y	VOA
L2631-16A	SB-18(8-9)	12/20/2012 11:13	12/21/2012	Soil	PMoist	/					VOA
L2631-16A	SB-18(8-9)	12/20/2012 11:13	12/21/2012	Soil	SW8260_LOW_S	/ SOM List				Y	VOA

HF = Fraction logged in but all tests have been placed on hold

HT = Test logged in but has been placed on hold

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

WorkOrder: L2631

Client ID: MALCOLM_LATHAM
Project: S&S Dry Cleaners & Dyers
WO Name: S&S Dry Cleaners & Dyers
Location: ARCADIS_COHOES, 0266396.0000
Comments: N/A

Case:
SDG:
PO: 00266396.0000

HC Due: 01/08/13
Fax Due:
Fax Report: ☐

Report Level: ASP-B
Special Program:
EDD: EQUIIS_4_NYSDEC

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
L2631-16A	SB-18(8-9)	12/20/2012 11:13	12/21/2012	Soil	SW8260_MED_S	/ SOM List		Y		Y	VOA
L2631-17A	SB-18(11-12)	12/20/2012 11:15	12/21/2012	Soil	PMoist	/			Y		VOA
L2631-17A	SB-18(11-12)	12/20/2012 11:15	12/21/2012	Soil	SW8260_LOW_S	/ SOM List			Y	Y	VOA
L2631-17A	SB-18(11-12)	12/20/2012 11:15	12/21/2012	Soil	SW8260_MED_S	/ SOM List		Y	Y	Y	VOA
L2631-18A	SB-19(2-3)	12/20/2012 11:50	12/21/2012	Soil	PMoist	/					VOA
L2631-18A	SB-19(2-3)	12/20/2012 11:50	12/21/2012	Soil	SW8260_LOW_S	/ SOM List				Y	VOA
L2631-18A	SB-19(2-3)	12/20/2012 11:50	12/21/2012	Soil	SW8260_MED_S	/ SOM List		Y		Y	VOA
L2631-19A	SB-19(7-8)	12/20/2012 12:00	12/21/2012	Soil	PMoist	/					A4
L2631-19A	SB-19(7-8)	12/20/2012 12:00	12/21/2012	Soil	SW8081_S	/					A4
L2631-19A	SB-19(7-8)	12/20/2012 12:00	12/21/2012	Soil	SW8082_S	/ +AR1262,1268				Y	A4
L2631-19A	SB-19(7-8)	12/20/2012 12:00	12/21/2012	Soil	SW8270_S	/ SOM List				Y	A4
L2631-19B	SB-19(7-8)	12/20/2012 12:00	12/21/2012	Soil	SW6010_S	/ TAL				Y	A4
L2631-19B	SB-19(7-8)	12/20/2012 12:00	12/21/2012	Soil	SW7471	/ TAL					A4
L2631-19C	SB-19(7-8)	12/20/2012 12:00	12/21/2012	Soil	SW8260_LOW_S	/ SOM List				Y	VOA
L2631-19C	SB-19(7-8)	12/20/2012 12:00	12/21/2012	Soil	SW8260_MED_S	/ SOM List		Y		Y	VOA
L2631-20A	SB-19(9-10)	12/20/2012 12:05	12/21/2012	Soil	PMoist	/					VOA
L2631-20A	SB-19(9-10)	12/20/2012 12:05	12/21/2012	Soil	SW8260_LOW_S	/ SOM List				Y	VOA
L2631-20A	SB-19(9-10)	12/20/2012 12:05	12/21/2012	Soil	SW8260_MED_S	/ SOM List		Y		Y	VOA

HF = Fraction logged in but all tests have been placed on hold

HT = Test logged in but has been placed on hold

* Volatiles *

REPORT NARRATIVE

Spectrum Analytical, Inc. Featuring Hanibal Technology, RI Division.

Client : ARCADIS U.S., Inc.

Project: S&S Dry Cleaners & Dyers

Laboratory Workorder / SDG #: L2631

SW846 8260C, VOC by GC-MS

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code: SW846 8260C

IV. PREPARATION

Soil Samples were prepared following procedures in laboratory test code: SW5035

V. INSTRUMENTATION

The following instrumentation was used

Instrument Code: V5
Instrument Type: GCMS-VOA
Description: HP6890 / HP6890
Manufacturer: Hewlett-Packard
Model: 6890 / 6890
GC Column used: 30 m X 0.25 mm ID [1.40 um thickness] DB-624 capillary column.

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

Surrogate standard percent recoveries were within the QC limits.

D. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits.

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

Matrix spikes were performed on samples: SB-15(5-6) (L2631-01CMS), SB-15(5-6) (L2631-01CMSD), SB-18(11-12) (L2631-17AMS) and SB-18(11-12) (L2631-17AMSD).

Percent recoveries were within the QC limits with the following exceptions:

SB-18(11-12) (L2631-17AMS)Percent Recovery is outside QC Limits, recovery is above criteria for Tetrachloroethene at 147% with criteria of (65-140).

SB-18(11-12) (L2631-17AMSD)Percent Recovery is outside QC Limits, recovery is above criteria for Tetrachloroethene at 156%

with criteria of (65-140).

Replicate RPDs were within the advisory QC limits.

E. Internal Standards:

Internal standard peak areas were within the QC limits.

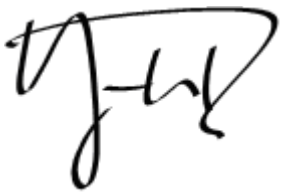
F. Dilutions:

No sample in this SDG required analysis at dilution.

G. Samples:

No other unusual occurrences were noted during sample analysis.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.



Signed:_____ _____

Date:_____1/7/2013_____

Data Flag/Qualifiers:

U Not Detected. This compound was analyzed-for but not detected. For most analyses the reporting limit (lowest standard concentration) is the value listed. For Department of Defense programs, this is the Limit of Detection (LOD).

J This flag indicates an estimated value due to either
- the compound was detected below the reporting limit, or
- estimated concentration for Tentatively Identified Compound

B This flag indicates the compound was also detected in the associated Method Blank. The B flag has an alternative meaning for Inorganics analyses reported using CLP ILM-type metals forms, indicating a "trace" concentration below the reporting limit and equal to or above the detection limit.

D For Organics analysis, this flag indicates the compound concentration was obtained from a secondary dilution analysis

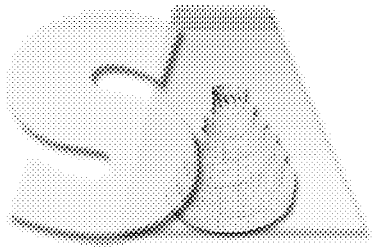
E This flag indicates the compound concentration exceeded the Calibration Range. The E flag has an alternative meaning for Inorganics analyses reported using CLP metals forms, indicating an estimated concentration due to the presence of interferences, as determined by the serial dilution analysis.

P This flag is used for pesticides/PCB/herbicide compound when there is a greater than 40% difference for detected concentration between the two GC columns used for primary and confirmation analyses. This difference typically indicates an interference, causing one value to be unusually high. The **lower** of the two values is generally reported on the Form 1, and both values reported on the Form 10.

A Used to flag semivolatile organic Tentatively Identified Compound library search results for compounds identified as aldol condensation byproducts.

N Used to flag results for volatile and semivolatile Organics analysis Tentatively Identified Compounds where an analyte has passed the identification criteria, and is considered to be positively identified. For Inorganics analysis the N flag indicates the matrix spike recovery falls outside of the control limit.

* For Inorganics analysis the * flag indicates Relative Percent Difference for duplicate analyses is outside of the control limit.



Sample ID Suffixes

DL Diluted analysis. The sample was diluted and reanalyzed. The DL may be followed by a digit if more than one diluted reanalysis is provided. The DL suffix is not attached to an analysis initially performed at dilution, only to reanalyses performed at dilution

RE Reanalysis. Appended to the client sample ID to indicate a reextraction and reanalysis or a reanalysis of the original sample extract.

RA Reanalysis. Appended to the laboratory sample ID indicates a reanalysis of the original sample extract.

RX Reextraction. Appended to the laboratory sample ID indicates a reextraction of the sample.

MS Matrix Spike.

MSD Matrix Spike Duplicate

DUP Duplicate analysis

SD Serial Dilution

PS Post-digestion or Post-distillation spike. For metals or inorganic analyses

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB-15(5-6)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L2631-01C

Sample wt/vol: 4.80 (g/mL) G Lab File ID: V5O1059.D

Level: (TRACE/LOW/MED) LOW Date Received: 12/21/2012

% Moisture: not dec. 27 Date Analyzed: 12/26/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	7.1	U
74-87-3	Chloromethane	7.1	U
75-01-4	Vinyl chloride	7.1	U
74-83-9	Bromomethane	7.1	U
75-00-3	Chloroethane	7.1	U
75-69-4	Trichlorofluoromethane	7.1	U
75-35-4	1,1-Dichloroethene	7.1	U
67-64-1	Acetone	7.1	U
75-15-0	Carbon disulfide	7.1	U
75-09-2	Methylene chloride	7.1	U
156-60-5	trans-1,2-Dichloroethene	7.1	U
1634-04-4	Methyl tert-butyl ether	7.1	U
75-34-3	1,1-Dichloroethane	7.1	U
78-93-3	2-Butanone	7.1	U
156-59-2	cis-1,2-Dichloroethene	7.1	U
74-97-5	Bromochloromethane	7.1	U
67-66-3	Chloroform	7.1	U
71-55-6	1,1,1-Trichloroethane	7.1	U
56-23-5	Carbon tetrachloride	7.1	U
107-06-2	1,2-Dichloroethane	7.1	U
71-43-2	Benzene	7.1	U
79-01-6	Trichloroethene	7.1	U
78-87-5	1,2-Dichloropropane	7.1	U
75-27-4	Bromodichloromethane	7.1	U
10061-01-5	cis-1,3-Dichloropropene	7.1	U
108-10-1	4-Methyl-2-pentanone	7.1	U
108-88-3	Toluene	7.1	U
10061-02-6	trans-1,3-Dichloropropene	7.1	U
79-00-5	1,1,2-Trichloroethane	7.1	U
127-18-4	Tetrachloroethene	18	
591-78-6	2-Hexanone	7.1	U
124-48-1	Dibromochloromethane	7.1	U
106-93-4	1,2-Dibromoethane	7.1	U
108-90-7	Chlorobenzene	7.1	U
100-41-4	Ethylbenzene	7.1	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB-15(5-6)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L2631-01C

Sample wt/vol: 4.80 (g/mL) G Lab File ID: V5O1059.D

Level: (TRACE/LOW/MED) LOW Date Received: 12/21/2012

% Moisture: not dec. 27 Date Analyzed: 12/26/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
179601-23-1	m,p-Xylene	7.1	U
95-47-6	o-Xylene	7.1	U
100-42-5	Styrene	7.1	U
75-25-2	Bromoform	7.1	U
98-82-8	Isopropylbenzene	7.1	U
79-34-5	1,1,2,2-Tetrachloroethane	7.1	U
541-73-1	1,3-Dichlorobenzene	7.1	U
106-46-7	1,4-Dichlorobenzene	7.1	U
95-50-1	1,2-Dichlorobenzene	7.1	U
96-12-8	1,2-Dibromo-3-chloropropane	7.1	U
120-82-1	1,2,4-Trichlorobenzene	7.1	U
87-61-6	1,2,3-Trichlorobenzene	7.1	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	7.1	U
123-91-1	1,4-Dioxane	140	U
110-82-7	Cyclohexane	7.1	U
79-20-9	Methyl acetate	7.1	U
108-87-2	Methylcyclohexane	7.1	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB-15(7-8)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L2631-02A

Sample wt/vol: 4.90 (g/mL) G Lab File ID: V5O1060.D

Level: (TRACE/LOW/MED) LOW Date Received: 12/21/2012

% Moisture: not dec. 20 Date Analyzed: 12/26/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	6.3	U
74-87-3	Chloromethane	6.3	U
75-01-4	Vinyl chloride	6.3	U
74-83-9	Bromomethane	6.3	U
75-00-3	Chloroethane	6.3	U
75-69-4	Trichlorofluoromethane	6.3	U
75-35-4	1,1-Dichloroethene	6.3	U
67-64-1	Acetone	6.3	U
75-15-0	Carbon disulfide	6.3	U
75-09-2	Methylene chloride	6.3	U
156-60-5	trans-1,2-Dichloroethene	6.3	U
1634-04-4	Methyl tert-butyl ether	6.3	U
75-34-3	1,1-Dichloroethane	6.3	U
78-93-3	2-Butanone	6.3	U
156-59-2	cis-1,2-Dichloroethene	6.3	U
74-97-5	Bromochloromethane	6.3	U
67-66-3	Chloroform	6.3	U
71-55-6	1,1,1-Trichloroethane	6.3	U
56-23-5	Carbon tetrachloride	6.3	U
107-06-2	1,2-Dichloroethane	6.3	U
71-43-2	Benzene	6.3	U
79-01-6	Trichloroethene	6.3	U
78-87-5	1,2-Dichloropropane	6.3	U
75-27-4	Bromodichloromethane	6.3	U
10061-01-5	cis-1,3-Dichloropropene	6.3	U
108-10-1	4-Methyl-2-pentanone	6.3	U
108-88-3	Toluene	6.3	U
10061-02-6	trans-1,3-Dichloropropene	6.3	U
79-00-5	1,1,2-Trichloroethane	6.3	U
127-18-4	Tetrachloroethene	6.3	U
591-78-6	2-Hexanone	6.3	U
124-48-1	Dibromochloromethane	6.3	U
106-93-4	1,2-Dibromoethane	6.3	U
108-90-7	Chlorobenzene	6.3	U
100-41-4	Ethylbenzene	6.3	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB-15(7-8)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L2631-02A

Sample wt/vol: 4.90 (g/mL) G Lab File ID: V5O1060.D

Level: (TRACE/LOW/MED) LOW Date Received: 12/21/2012

% Moisture: not dec. 20 Date Analyzed: 12/26/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
179601-23-1	m,p-Xylene	6.3	U
95-47-6	o-Xylene	6.3	U
100-42-5	Styrene	6.3	U
75-25-2	Bromoform	6.3	U
98-82-8	Isopropylbenzene	6.3	U
79-34-5	1,1,2,2-Tetrachloroethane	6.3	U
541-73-1	1,3-Dichlorobenzene	6.3	U
106-46-7	1,4-Dichlorobenzene	6.3	U
95-50-1	1,2-Dichlorobenzene	6.3	U
96-12-8	1,2-Dibromo-3-chloropropane	6.3	U
120-82-1	1,2,4-Trichlorobenzene	6.3	U
87-61-6	1,2,3-Trichlorobenzene	6.3	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	6.3	U
123-91-1	1,4-Dioxane	130	U
110-82-7	Cyclohexane	6.3	U
79-20-9	Methyl acetate	6.3	U
108-87-2	Methylcyclohexane	6.3	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB-15(9-10)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L2631-03A

Sample wt/vol: 5.10 (g/mL) G Lab File ID: V5O1092.D

Level: (TRACE/LOW/MED) LOW Date Received: 12/21/2012

% Moisture: not dec. 13 Date Analyzed: 12/27/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	5.6	U
74-87-3	Chloromethane	5.6	U
75-01-4	Vinyl chloride	5.6	U
74-83-9	Bromomethane	5.6	U
75-00-3	Chloroethane	5.6	U
75-69-4	Trichlorofluoromethane	5.6	U
75-35-4	1,1-Dichloroethene	5.6	U
67-64-1	Acetone	2.7	J
75-15-0	Carbon disulfide	5.6	U
75-09-2	Methylene chloride	5.6	U
156-60-5	trans-1,2-Dichloroethene	5.6	U
1634-04-4	Methyl tert-butyl ether	5.6	U
75-34-3	1,1-Dichloroethane	5.6	U
78-93-3	2-Butanone	5.6	U
156-59-2	cis-1,2-Dichloroethene	5.6	U
74-97-5	Bromochloromethane	5.6	U
67-66-3	Chloroform	5.6	U
71-55-6	1,1,1-Trichloroethane	5.6	U
56-23-5	Carbon tetrachloride	5.6	U
107-06-2	1,2-Dichloroethane	5.6	U
71-43-2	Benzene	5.6	U
79-01-6	Trichloroethene	5.6	U
78-87-5	1,2-Dichloropropane	5.6	U
75-27-4	Bromodichloromethane	5.6	U
10061-01-5	cis-1,3-Dichloropropene	5.6	U
108-10-1	4-Methyl-2-pentanone	5.6	U
108-88-3	Toluene	5.6	U
10061-02-6	trans-1,3-Dichloropropene	5.6	U
79-00-5	1,1,2-Trichloroethane	5.6	U
127-18-4	Tetrachloroethene	5.6	U
591-78-6	2-Hexanone	5.6	U
124-48-1	Dibromochloromethane	5.6	U
106-93-4	1,2-Dibromoethane	5.6	U
108-90-7	Chlorobenzene	5.6	U
100-41-4	Ethylbenzene	5.6	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB-15(9-10)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L2631-03A

Sample wt/vol: 5.10 (g/mL) G Lab File ID: V5O1092.D

Level: (TRACE/LOW/MED) LOW Date Received: 12/21/2012

% Moisture: not dec. 13 Date Analyzed: 12/27/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
179601-23-1	m,p-Xylene	5.6	U
95-47-6	o-Xylene	5.6	U
100-42-5	Styrene	5.6	U
75-25-2	Bromoform	5.6	U
98-82-8	Isopropylbenzene	5.6	U
79-34-5	1,1,2,2-Tetrachloroethane	5.6	U
541-73-1	1,3-Dichlorobenzene	5.6	U
106-46-7	1,4-Dichlorobenzene	5.6	U
95-50-1	1,2-Dichlorobenzene	5.6	U
96-12-8	1,2-Dibromo-3-chloropropane	5.6	U
120-82-1	1,2,4-Trichlorobenzene	5.6	U
87-61-6	1,2,3-Trichlorobenzene	5.6	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.6	U
123-91-1	1,4-Dioxane	110	U
110-82-7	Cyclohexane	5.6	U
79-20-9	Methyl acetate	5.6	U
108-87-2	Methylcyclohexane	5.6	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB-16(5-6)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L2631-04A

Sample wt/vol: 5.10 (g/mL) G Lab File ID: V5O1062.D

Level: (TRACE/LOW/MED) LOW Date Received: 12/21/2012

% Moisture: not dec. 20 Date Analyzed: 12/26/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	6.1	U
74-87-3	Chloromethane	6.1	U
75-01-4	Vinyl chloride	6.1	U
74-83-9	Bromomethane	6.1	U
75-00-3	Chloroethane	6.1	U
75-69-4	Trichlorofluoromethane	6.1	U
75-35-4	1,1-Dichloroethene	6.1	U
67-64-1	Acetone	6.8	
75-15-0	Carbon disulfide	6.1	U
75-09-2	Methylene chloride	1.8	J
156-60-5	trans-1,2-Dichloroethene	6.1	U
1634-04-4	Methyl tert-butyl ether	6.1	U
75-34-3	1,1-Dichloroethane	6.1	U
78-93-3	2-Butanone	6.1	U
156-59-2	cis-1,2-Dichloroethene	6.1	U
74-97-5	Bromochloromethane	6.1	U
67-66-3	Chloroform	1.7	J
71-55-6	1,1,1-Trichloroethane	6.1	U
56-23-5	Carbon tetrachloride	6.1	U
107-06-2	1,2-Dichloroethane	6.1	U
71-43-2	Benzene	6.1	U
79-01-6	Trichloroethene	6.1	U
78-87-5	1,2-Dichloropropane	6.1	U
75-27-4	Bromodichloromethane	6.1	U
10061-01-5	cis-1,3-Dichloropropene	6.1	U
108-10-1	4-Methyl-2-pentanone	6.1	U
108-88-3	Toluene	6.1	U
10061-02-6	trans-1,3-Dichloropropene	6.1	U
79-00-5	1,1,2-Trichloroethane	6.1	U
127-18-4	Tetrachloroethene	3.1	J
591-78-6	2-Hexanone	6.1	U
124-48-1	Dibromochloromethane	6.1	U
106-93-4	1,2-Dibromoethane	6.1	U
108-90-7	Chlorobenzene	6.1	U
100-41-4	Ethylbenzene	6.1	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB-16(5-6)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L2631-04A

Sample wt/vol: 5.10 (g/mL) G Lab File ID: V5O1062.D

Level: (TRACE/LOW/MED) LOW Date Received: 12/21/2012

% Moisture: not dec. 20 Date Analyzed: 12/26/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
179601-23-1	m,p-Xylene	6.1	U
95-47-6	o-Xylene	6.1	U
100-42-5	Styrene	6.1	U
75-25-2	Bromoform	6.1	U
98-82-8	Isopropylbenzene	6.1	U
79-34-5	1,1,2,2-Tetrachloroethane	6.1	U
541-73-1	1,3-Dichlorobenzene	6.1	U
106-46-7	1,4-Dichlorobenzene	6.1	U
95-50-1	1,2-Dichlorobenzene	6.1	U
96-12-8	1,2-Dibromo-3-chloropropane	6.1	U
120-82-1	1,2,4-Trichlorobenzene	6.1	U
87-61-6	1,2,3-Trichlorobenzene	6.1	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	6.1	U
123-91-1	1,4-Dioxane	120	U
110-82-7	Cyclohexane	6.1	U
79-20-9	Methyl acetate	6.1	U
108-87-2	Methylcyclohexane	6.1	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB-16(6-7)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L2631-05A

Sample wt/vol: 5.00 (g/mL) G Lab File ID: V5O1063.D

Level: (TRACE/LOW/MED) LOW Date Received: 12/21/2012

% Moisture: not dec. 21 Date Analyzed: 12/26/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	6.4	U
74-87-3	Chloromethane	6.4	U
75-01-4	Vinyl chloride	6.4	U
74-83-9	Bromomethane	6.4	U
75-00-3	Chloroethane	6.4	U
75-69-4	Trichlorofluoromethane	6.4	U
75-35-4	1,1-Dichloroethene	6.4	U
67-64-1	Acetone	6.4	U
75-15-0	Carbon disulfide	6.4	U
75-09-2	Methylene chloride	6.4	U
156-60-5	trans-1,2-Dichloroethene	6.4	U
1634-04-4	Methyl tert-butyl ether	6.4	U
75-34-3	1,1-Dichloroethane	6.4	U
78-93-3	2-Butanone	6.4	U
156-59-2	cis-1,2-Dichloroethene	6.4	U
74-97-5	Bromochloromethane	6.4	U
67-66-3	Chloroform	6.4	U
71-55-6	1,1,1-Trichloroethane	6.4	U
56-23-5	Carbon tetrachloride	6.4	U
107-06-2	1,2-Dichloroethane	6.4	U
71-43-2	Benzene	6.4	U
79-01-6	Trichloroethene	6.4	U
78-87-5	1,2-Dichloropropane	6.4	U
75-27-4	Bromodichloromethane	6.4	U
10061-01-5	cis-1,3-Dichloropropene	6.4	U
108-10-1	4-Methyl-2-pentanone	6.4	U
108-88-3	Toluene	6.4	U
10061-02-6	trans-1,3-Dichloropropene	6.4	U
79-00-5	1,1,2-Trichloroethane	6.4	U
127-18-4	Tetrachloroethene	9.2	
591-78-6	2-Hexanone	6.4	U
124-48-1	Dibromochloromethane	6.4	U
106-93-4	1,2-Dibromoethane	6.4	U
108-90-7	Chlorobenzene	6.4	U
100-41-4	Ethylbenzene	6.4	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB-16(6-7)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L2631-05A

Sample wt/vol: 5.00 (g/mL) G Lab File ID: V5O1063.D

Level: (TRACE/LOW/MED) LOW Date Received: 12/21/2012

% Moisture: not dec. 21 Date Analyzed: 12/26/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
179601-23-1	m,p-Xylene	6.4	U
95-47-6	o-Xylene	6.4	U
100-42-5	Styrene	6.4	U
75-25-2	Bromoform	6.4	U
98-82-8	Isopropylbenzene	6.4	U
79-34-5	1,1,2,2-Tetrachloroethane	6.4	U
541-73-1	1,3-Dichlorobenzene	6.4	U
106-46-7	1,4-Dichlorobenzene	6.4	U
95-50-1	1,2-Dichlorobenzene	6.4	U
96-12-8	1,2-Dibromo-3-chloropropane	6.4	U
120-82-1	1,2,4-Trichlorobenzene	6.4	U
87-61-6	1,2,3-Trichlorobenzene	6.4	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	6.4	U
123-91-1	1,4-Dioxane	130	U
110-82-7	Cyclohexane	6.4	U
79-20-9	Methyl acetate	6.4	U
108-87-2	Methylcyclohexane	6.4	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB-16(8-9)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L2631-06A

Sample wt/vol: 2.00 (g/mL) G Lab File ID: V5O1093.D

Level: (TRACE/LOW/MED) LOW Date Received: 12/21/2012

% Moisture: not dec. 23 Date Analyzed: 12/27/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	16	U
74-87-3	Chloromethane	16	U
75-01-4	Vinyl chloride	16	U
74-83-9	Bromomethane	16	U
75-00-3	Chloroethane	16	U
75-69-4	Trichlorofluoromethane	16	U
75-35-4	1,1-Dichloroethene	16	U
67-64-1	Acetone	16	U
75-15-0	Carbon disulfide	16	U
75-09-2	Methylene chloride	4.4	J
156-60-5	trans-1,2-Dichloroethene	16	U
1634-04-4	Methyl tert-butyl ether	16	U
75-34-3	1,1-Dichloroethane	16	U
78-93-3	2-Butanone	16	U
156-59-2	cis-1,2-Dichloroethene	16	U
74-97-5	Bromochloromethane	16	U
67-66-3	Chloroform	16	U
71-55-6	1,1,1-Trichloroethane	16	U
56-23-5	Carbon tetrachloride	16	U
107-06-2	1,2-Dichloroethane	16	U
71-43-2	Benzene	16	U
79-01-6	Trichloroethene	6.7	J
78-87-5	1,2-Dichloropropane	16	U
75-27-4	Bromodichloromethane	16	U
10061-01-5	cis-1,3-Dichloropropene	16	U
108-10-1	4-Methyl-2-pentanone	16	U
108-88-3	Toluene	16	U
10061-02-6	trans-1,3-Dichloropropene	16	U
79-00-5	1,1,2-Trichloroethane	16	U
127-18-4	Tetrachloroethene	350	
591-78-6	2-Hexanone	16	U
124-48-1	Dibromochloromethane	16	U
106-93-4	1,2-Dibromoethane	16	U
108-90-7	Chlorobenzene	16	U
100-41-4	Ethylbenzene	16	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB-16(8-9)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L2631-06A

Sample wt/vol: 2.00 (g/mL) G Lab File ID: V5O1093.D

Level: (TRACE/LOW/MED) LOW Date Received: 12/21/2012

% Moisture: not dec. 23 Date Analyzed: 12/27/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
179601-23-1	m,p-Xylene	16	U
95-47-6	o-Xylene	16	U
100-42-5	Styrene	16	U
75-25-2	Bromoform	16	U
98-82-8	Isopropylbenzene	16	U
79-34-5	1,1,2,2-Tetrachloroethane	16	U
541-73-1	1,3-Dichlorobenzene	16	U
106-46-7	1,4-Dichlorobenzene	16	U
95-50-1	1,2-Dichlorobenzene	16	U
96-12-8	1,2-Dibromo-3-chloropropane	16	U
120-82-1	1,2,4-Trichlorobenzene	16	U
87-61-6	1,2,3-Trichlorobenzene	16	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	16	U
123-91-1	1,4-Dioxane	320	U
110-82-7	Cyclohexane	16	U
79-20-9	Methyl acetate	16	U
108-87-2	Methylcyclohexane	16	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB-16(9-10)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L2631-07C

Sample wt/vol: 5.10 (g/mL) G Lab File ID: V5O1094.D

Level: (TRACE/LOW/MED) LOW Date Received: 12/21/2012

% Moisture: not dec. 21 Date Analyzed: 12/27/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	6.2	U
74-87-3	Chloromethane	6.2	U
75-01-4	Vinyl chloride	6.2	U
74-83-9	Bromomethane	6.2	U
75-00-3	Chloroethane	6.2	U
75-69-4	Trichlorofluoromethane	6.2	U
75-35-4	1,1-Dichloroethene	6.2	U
67-64-1	Acetone	6.2	U
75-15-0	Carbon disulfide	6.2	U
75-09-2	Methylene chloride	6.2	U
156-60-5	trans-1,2-Dichloroethene	6.2	U
1634-04-4	Methyl tert-butyl ether	6.2	U
75-34-3	1,1-Dichloroethane	6.2	U
78-93-3	2-Butanone	6.2	U
156-59-2	cis-1,2-Dichloroethene	6.2	U
74-97-5	Bromochloromethane	6.2	U
67-66-3	Chloroform	6.2	U
71-55-6	1,1,1-Trichloroethane	6.2	U
56-23-5	Carbon tetrachloride	6.2	U
107-06-2	1,2-Dichloroethane	6.2	U
71-43-2	Benzene	6.2	U
79-01-6	Trichloroethene	3.7	J
78-87-5	1,2-Dichloropropane	6.2	U
75-27-4	Bromodichloromethane	6.2	U
10061-01-5	cis-1,3-Dichloropropene	6.2	U
108-10-1	4-Methyl-2-pentanone	6.2	U
108-88-3	Toluene	6.2	U
10061-02-6	trans-1,3-Dichloropropene	6.2	U
79-00-5	1,1,2-Trichloroethane	6.2	U
127-18-4	Tetrachloroethene	180	
591-78-6	2-Hexanone	6.2	U
124-48-1	Dibromochloromethane	6.2	U
106-93-4	1,2-Dibromoethane	6.2	U
108-90-7	Chlorobenzene	6.2	U
100-41-4	Ethylbenzene	6.2	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB-16(9-10)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L2631-07C

Sample wt/vol: 5.10 (g/mL) G Lab File ID: V5O1094.D

Level: (TRACE/LOW/MED) LOW Date Received: 12/21/2012

% Moisture: not dec. 21 Date Analyzed: 12/27/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
179601-23-1	m,p-Xylene	6.2	U
95-47-6	o-Xylene	6.2	U
100-42-5	Styrene	6.2	U
75-25-2	Bromoform	6.2	U
98-82-8	Isopropylbenzene	6.2	U
79-34-5	1,1,2,2-Tetrachloroethane	6.2	U
541-73-1	1,3-Dichlorobenzene	6.2	U
106-46-7	1,4-Dichlorobenzene	6.2	U
95-50-1	1,2-Dichlorobenzene	6.2	U
96-12-8	1,2-Dibromo-3-chloropropane	6.2	U
120-82-1	1,2,4-Trichlorobenzene	6.2	U
87-61-6	1,2,3-Trichlorobenzene	6.2	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	6.2	U
123-91-1	1,4-Dioxane	120	U
110-82-7	Cyclohexane	6.2	U
79-20-9	Methyl acetate	6.2	U
108-87-2	Methylcyclohexane	6.2	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB-16(10-11)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L2631-08A

Sample wt/vol: 4.90 (g/mL) G Lab File ID: V5O1095.D

Level: (TRACE/LOW/MED) LOW Date Received: 12/21/2012

% Moisture: not dec. 21 Date Analyzed: 12/27/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	6.4	U
74-87-3	Chloromethane	6.4	U
75-01-4	Vinyl chloride	6.4	U
74-83-9	Bromomethane	6.4	U
75-00-3	Chloroethane	6.4	U
75-69-4	Trichlorofluoromethane	6.4	U
75-35-4	1,1-Dichloroethene	6.4	U
67-64-1	Acetone	6.4	U
75-15-0	Carbon disulfide	6.4	U
75-09-2	Methylene chloride	6.4	U
156-60-5	trans-1,2-Dichloroethene	6.4	U
1634-04-4	Methyl tert-butyl ether	6.4	U
75-34-3	1,1-Dichloroethane	6.4	U
78-93-3	2-Butanone	6.4	U
156-59-2	cis-1,2-Dichloroethene	6.4	U
74-97-5	Bromochloromethane	6.4	U
67-66-3	Chloroform	6.4	U
71-55-6	1,1,1-Trichloroethane	6.4	U
56-23-5	Carbon tetrachloride	6.4	U
107-06-2	1,2-Dichloroethane	6.4	U
71-43-2	Benzene	6.4	U
79-01-6	Trichloroethene	2.1	J
78-87-5	1,2-Dichloropropane	6.4	U
75-27-4	Bromodichloromethane	6.4	U
10061-01-5	cis-1,3-Dichloropropene	6.4	U
108-10-1	4-Methyl-2-pentanone	6.4	U
108-88-3	Toluene	6.4	U
10061-02-6	trans-1,3-Dichloropropene	6.4	U
79-00-5	1,1,2-Trichloroethane	6.4	U
127-18-4	Tetrachloroethene	94	
591-78-6	2-Hexanone	6.4	U
124-48-1	Dibromochloromethane	6.4	U
106-93-4	1,2-Dibromoethane	6.4	U
108-90-7	Chlorobenzene	6.4	U
100-41-4	Ethylbenzene	6.4	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB-16(10-11)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L2631-08A

Sample wt/vol: 4.90 (g/mL) G Lab File ID: V5O1095.D

Level: (TRACE/LOW/MED) LOW Date Received: 12/21/2012

% Moisture: not dec. 21 Date Analyzed: 12/27/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
179601-23-1	m,p-Xylene	6.4	U
95-47-6	o-Xylene	6.4	U
100-42-5	Styrene	6.4	U
75-25-2	Bromoform	6.4	U
98-82-8	Isopropylbenzene	6.4	U
79-34-5	1,1,2,2-Tetrachloroethane	6.4	U
541-73-1	1,3-Dichlorobenzene	6.4	U
106-46-7	1,4-Dichlorobenzene	6.4	U
95-50-1	1,2-Dichlorobenzene	6.4	U
96-12-8	1,2-Dibromo-3-chloropropane	6.4	U
120-82-1	1,2,4-Trichlorobenzene	6.4	U
87-61-6	1,2,3-Trichlorobenzene	6.4	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	6.4	U
123-91-1	1,4-Dioxane	130	U
110-82-7	Cyclohexane	6.4	U
79-20-9	Methyl acetate	6.4	U
108-87-2	Methylcyclohexane	6.4	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB-17(1-2)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L2631-09A

Sample wt/vol: 4.80 (g/mL) G Lab File ID: V5O1067.D

Level: (TRACE/LOW/MED) LOW Date Received: 12/21/2012

% Moisture: not dec. 21 Date Analyzed: 12/26/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	6.6	U
74-87-3	Chloromethane	6.6	U
75-01-4	Vinyl chloride	6.6	U
74-83-9	Bromomethane	6.6	U
75-00-3	Chloroethane	6.6	U
75-69-4	Trichlorofluoromethane	6.6	U
75-35-4	1,1-Dichloroethene	6.6	U
67-64-1	Acetone	6.6	U
75-15-0	Carbon disulfide	6.6	U
75-09-2	Methylene chloride	2.1	J
156-60-5	trans-1,2-Dichloroethene	6.6	U
1634-04-4	Methyl tert-butyl ether	6.6	U
75-34-3	1,1-Dichloroethane	6.6	U
78-93-3	2-Butanone	6.6	U
156-59-2	cis-1,2-Dichloroethene	6.6	U
74-97-5	Bromochloromethane	6.6	U
67-66-3	Chloroform	2.2	J
71-55-6	1,1,1-Trichloroethane	6.6	U
56-23-5	Carbon tetrachloride	6.6	U
107-06-2	1,2-Dichloroethane	6.6	U
71-43-2	Benzene	6.6	U
79-01-6	Trichloroethene	6.6	U
78-87-5	1,2-Dichloropropane	6.6	U
75-27-4	Bromodichloromethane	6.6	U
10061-01-5	cis-1,3-Dichloropropene	6.6	U
108-10-1	4-Methyl-2-pentanone	6.6	U
108-88-3	Toluene	6.6	U
10061-02-6	trans-1,3-Dichloropropene	6.6	U
79-00-5	1,1,2-Trichloroethane	6.6	U
127-18-4	Tetrachloroethene	6.6	U
591-78-6	2-Hexanone	6.6	U
124-48-1	Dibromochloromethane	6.6	U
106-93-4	1,2-Dibromoethane	6.6	U
108-90-7	Chlorobenzene	6.6	U
100-41-4	Ethylbenzene	6.6	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB-17(1-2)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L2631-09A

Sample wt/vol: 4.80 (g/mL) G Lab File ID: V5O1067.D

Level: (TRACE/LOW/MED) LOW Date Received: 12/21/2012

% Moisture: not dec. 21 Date Analyzed: 12/26/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
179601-23-1	m,p-Xylene	6.6	U
95-47-6	o-Xylene	6.6	U
100-42-5	Styrene	6.6	U
75-25-2	Bromoform	6.6	U
98-82-8	Isopropylbenzene	6.6	U
79-34-5	1,1,2,2-Tetrachloroethane	6.6	U
541-73-1	1,3-Dichlorobenzene	6.6	U
106-46-7	1,4-Dichlorobenzene	6.6	U
95-50-1	1,2-Dichlorobenzene	6.6	U
96-12-8	1,2-Dibromo-3-chloropropane	6.6	U
120-82-1	1,2,4-Trichlorobenzene	6.6	U
87-61-6	1,2,3-Trichlorobenzene	6.6	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	6.6	U
123-91-1	1,4-Dioxane	130	U
110-82-7	Cyclohexane	6.6	U
79-20-9	Methyl acetate	6.6	U
108-87-2	Methylcyclohexane	6.6	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB-17(5-6)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L2631-10A

Sample wt/vol: 4.80 (g/mL) G Lab File ID: V5O1068.D

Level: (TRACE/LOW/MED) LOW Date Received: 12/21/2012

% Moisture: not dec. 20 Date Analyzed: 12/26/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	6.5	U
74-87-3	Chloromethane	6.5	U
75-01-4	Vinyl chloride	6.5	U
74-83-9	Bromomethane	6.5	U
75-00-3	Chloroethane	6.5	U
75-69-4	Trichlorofluoromethane	6.5	U
75-35-4	1,1-Dichloroethene	6.5	U
67-64-1	Acetone	6.5	U
75-15-0	Carbon disulfide	6.5	U
75-09-2	Methylene chloride	2.5	J
156-60-5	trans-1,2-Dichloroethene	6.5	U
1634-04-4	Methyl tert-butyl ether	6.5	U
75-34-3	1,1-Dichloroethane	6.5	U
78-93-3	2-Butanone	6.5	U
156-59-2	cis-1,2-Dichloroethene	6.5	U
74-97-5	Bromochloromethane	6.5	U
67-66-3	Chloroform	2.0	J
71-55-6	1,1,1-Trichloroethane	6.5	U
56-23-5	Carbon tetrachloride	6.5	U
107-06-2	1,2-Dichloroethane	6.5	U
71-43-2	Benzene	6.5	U
79-01-6	Trichloroethene	6.5	U
78-87-5	1,2-Dichloropropane	6.5	U
75-27-4	Bromodichloromethane	6.5	U
10061-01-5	cis-1,3-Dichloropropene	6.5	U
108-10-1	4-Methyl-2-pentanone	6.5	U
108-88-3	Toluene	6.5	U
10061-02-6	trans-1,3-Dichloropropene	6.5	U
79-00-5	1,1,2-Trichloroethane	6.5	U
127-18-4	Tetrachloroethene	3.8	J
591-78-6	2-Hexanone	6.5	U
124-48-1	Dibromochloromethane	6.5	U
106-93-4	1,2-Dibromoethane	6.5	U
108-90-7	Chlorobenzene	6.5	U
100-41-4	Ethylbenzene	6.5	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB-17(5-6)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L2631-10A

Sample wt/vol: 4.80 (g/mL) G Lab File ID: V5O1068.D

Level: (TRACE/LOW/MED) LOW Date Received: 12/21/2012

% Moisture: not dec. 20 Date Analyzed: 12/26/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
179601-23-1	m,p-Xylene	6.5	U
95-47-6	o-Xylene	6.5	U
100-42-5	Styrene	6.5	U
75-25-2	Bromoform	6.5	U
98-82-8	Isopropylbenzene	6.5	U
79-34-5	1,1,2,2-Tetrachloroethane	6.5	U
541-73-1	1,3-Dichlorobenzene	6.5	U
106-46-7	1,4-Dichlorobenzene	6.5	U
95-50-1	1,2-Dichlorobenzene	6.5	U
96-12-8	1,2-Dibromo-3-chloropropane	6.5	U
120-82-1	1,2,4-Trichlorobenzene	6.5	U
87-61-6	1,2,3-Trichlorobenzene	6.5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	6.5	U
123-91-1	1,4-Dioxane	130	U
110-82-7	Cyclohexane	6.5	U
79-20-9	Methyl acetate	6.5	U
108-87-2	Methylcyclohexane	6.5	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB-17(6-7)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L2631-11A

Sample wt/vol: 5.00 (g/mL) G Lab File ID: V5O1069.D

Level: (TRACE/LOW/MED) LOW Date Received: 12/21/2012

% Moisture: not dec. 23 Date Analyzed: 12/26/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	6.5	U
74-87-3	Chloromethane	6.5	U
75-01-4	Vinyl chloride	6.5	U
74-83-9	Bromomethane	6.5	U
75-00-3	Chloroethane	6.5	U
75-69-4	Trichlorofluoromethane	6.5	U
75-35-4	1,1-Dichloroethene	6.5	U
67-64-1	Acetone	6.5	U
75-15-0	Carbon disulfide	6.5	U
75-09-2	Methylene chloride	6.5	U
156-60-5	trans-1,2-Dichloroethene	6.5	U
1634-04-4	Methyl tert-butyl ether	6.5	U
75-34-3	1,1-Dichloroethane	6.5	U
78-93-3	2-Butanone	6.5	U
156-59-2	cis-1,2-Dichloroethene	6.5	U
74-97-5	Bromochloromethane	6.5	U
67-66-3	Chloroform	1.3	J
71-55-6	1,1,1-Trichloroethane	6.5	U
56-23-5	Carbon tetrachloride	6.5	U
107-06-2	1,2-Dichloroethane	6.5	U
71-43-2	Benzene	6.5	U
79-01-6	Trichloroethene	6.5	U
78-87-5	1,2-Dichloropropane	6.5	U
75-27-4	Bromodichloromethane	6.5	U
10061-01-5	cis-1,3-Dichloropropene	6.5	U
108-10-1	4-Methyl-2-pentanone	6.5	U
108-88-3	Toluene	6.5	U
10061-02-6	trans-1,3-Dichloropropene	6.5	U
79-00-5	1,1,2-Trichloroethane	6.5	U
127-18-4	Tetrachloroethene	6.5	U
591-78-6	2-Hexanone	6.5	U
124-48-1	Dibromochloromethane	6.5	U
106-93-4	1,2-Dibromoethane	6.5	U
108-90-7	Chlorobenzene	6.5	U
100-41-4	Ethylbenzene	6.5	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB-17(6-7)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L2631-11A

Sample wt/vol: 5.00 (g/mL) G Lab File ID: V5O1069.D

Level: (TRACE/LOW/MED) LOW Date Received: 12/21/2012

% Moisture: not dec. 23 Date Analyzed: 12/26/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
179601-23-1	m,p-Xylene	6.5	U
95-47-6	o-Xylene	6.5	U
100-42-5	Styrene	6.5	U
75-25-2	Bromoform	6.5	U
98-82-8	Isopropylbenzene	6.5	U
79-34-5	1,1,2,2-Tetrachloroethane	6.5	U
541-73-1	1,3-Dichlorobenzene	6.5	U
106-46-7	1,4-Dichlorobenzene	6.5	U
95-50-1	1,2-Dichlorobenzene	6.5	U
96-12-8	1,2-Dibromo-3-chloropropane	6.5	U
120-82-1	1,2,4-Trichlorobenzene	6.5	U
87-61-6	1,2,3-Trichlorobenzene	6.5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	6.5	U
123-91-1	1,4-Dioxane	130	U
110-82-7	Cyclohexane	6.5	U
79-20-9	Methyl acetate	6.5	U
108-87-2	Methylcyclohexane	6.5	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB-17(7-8)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L2631-12A

Sample wt/vol: 5.10 (g/mL) G Lab File ID: V5O1070.D

Level: (TRACE/LOW/MED) LOW Date Received: 12/21/2012

% Moisture: not dec. 23 Date Analyzed: 12/26/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	6.4	U
74-87-3	Chloromethane	6.4	U
75-01-4	Vinyl chloride	6.4	U
74-83-9	Bromomethane	6.4	U
75-00-3	Chloroethane	6.4	U
75-69-4	Trichlorofluoromethane	6.4	U
75-35-4	1,1-Dichloroethene	6.4	U
67-64-1	Acetone	6.4	U
75-15-0	Carbon disulfide	6.4	U
75-09-2	Methylene chloride	6.4	U
156-60-5	trans-1,2-Dichloroethene	6.4	U
1634-04-4	Methyl tert-butyl ether	6.4	U
75-34-3	1,1-Dichloroethane	6.4	U
78-93-3	2-Butanone	6.4	U
156-59-2	cis-1,2-Dichloroethene	6.4	U
74-97-5	Bromochloromethane	6.4	U
67-66-3	Chloroform	1.3	J
71-55-6	1,1,1-Trichloroethane	6.4	U
56-23-5	Carbon tetrachloride	6.4	U
107-06-2	1,2-Dichloroethane	6.4	U
71-43-2	Benzene	6.4	U
79-01-6	Trichloroethene	6.4	U
78-87-5	1,2-Dichloropropane	6.4	U
75-27-4	Bromodichloromethane	6.4	U
10061-01-5	cis-1,3-Dichloropropene	6.4	U
108-10-1	4-Methyl-2-pentanone	6.4	U
108-88-3	Toluene	6.4	U
10061-02-6	trans-1,3-Dichloropropene	6.4	U
79-00-5	1,1,2-Trichloroethane	6.4	U
127-18-4	Tetrachloroethene	6.4	U
591-78-6	2-Hexanone	6.4	U
124-48-1	Dibromochloromethane	6.4	U
106-93-4	1,2-Dibromoethane	6.4	U
108-90-7	Chlorobenzene	6.4	U
100-41-4	Ethylbenzene	6.4	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB-17(7-8)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L2631-12A

Sample wt/vol: 5.10 (g/mL) G Lab File ID: V5O1070.D

Level: (TRACE/LOW/MED) LOW Date Received: 12/21/2012

% Moisture: not dec. 23 Date Analyzed: 12/26/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
179601-23-1	m,p-Xylene	6.4	U
95-47-6	o-Xylene	6.4	U
100-42-5	Styrene	6.4	U
75-25-2	Bromoform	6.4	U
98-82-8	Isopropylbenzene	6.4	U
79-34-5	1,1,2,2-Tetrachloroethane	6.4	U
541-73-1	1,3-Dichlorobenzene	6.4	U
106-46-7	1,4-Dichlorobenzene	6.4	U
95-50-1	1,2-Dichlorobenzene	6.4	U
96-12-8	1,2-Dibromo-3-chloropropane	6.4	U
120-82-1	1,2,4-Trichlorobenzene	6.4	U
87-61-6	1,2,3-Trichlorobenzene	6.4	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	6.4	U
123-91-1	1,4-Dioxane	130	U
110-82-7	Cyclohexane	6.4	U
79-20-9	Methyl acetate	6.4	U
108-87-2	Methylcyclohexane	6.4	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB-17(8-9)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L2631-13C

Sample wt/vol: 4.80 (g/mL) G Lab File ID: V5O1071.D

Level: (TRACE/LOW/MED) LOW Date Received: 12/21/2012

% Moisture: not dec. 19 Date Analyzed: 12/26/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	6.4	U
74-87-3	Chloromethane	6.4	U
75-01-4	Vinyl chloride	6.4	U
74-83-9	Bromomethane	6.4	U
75-00-3	Chloroethane	6.4	U
75-69-4	Trichlorofluoromethane	6.4	U
75-35-4	1,1-Dichloroethene	6.4	U
67-64-1	Acetone	6.4	U
75-15-0	Carbon disulfide	6.4	U
75-09-2	Methylene chloride	6.4	U
156-60-5	trans-1,2-Dichloroethene	6.4	U
1634-04-4	Methyl tert-butyl ether	6.4	U
75-34-3	1,1-Dichloroethane	6.4	U
78-93-3	2-Butanone	6.4	U
156-59-2	cis-1,2-Dichloroethene	6.4	U
74-97-5	Bromochloromethane	6.4	U
67-66-3	Chloroform	6.4	U
71-55-6	1,1,1-Trichloroethane	6.4	U
56-23-5	Carbon tetrachloride	6.4	U
107-06-2	1,2-Dichloroethane	6.4	U
71-43-2	Benzene	6.4	U
79-01-6	Trichloroethene	6.4	U
78-87-5	1,2-Dichloropropane	6.4	U
75-27-4	Bromodichloromethane	6.4	U
10061-01-5	cis-1,3-Dichloropropene	6.4	U
108-10-1	4-Methyl-2-pentanone	6.4	U
108-88-3	Toluene	6.4	U
10061-02-6	trans-1,3-Dichloropropene	6.4	U
79-00-5	1,1,2-Trichloroethane	6.4	U
127-18-4	Tetrachloroethene	1.6	J
591-78-6	2-Hexanone	6.4	U
124-48-1	Dibromochloromethane	6.4	U
106-93-4	1,2-Dibromoethane	6.4	U
108-90-7	Chlorobenzene	6.4	U
100-41-4	Ethylbenzene	6.4	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB-17(8-9)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L2631-13C

Sample wt/vol: 4.80 (g/mL) G Lab File ID: V5O1071.D

Level: (TRACE/LOW/MED) LOW Date Received: 12/21/2012

% Moisture: not dec. 19 Date Analyzed: 12/26/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
179601-23-1	m,p-Xylene	6.4	U
95-47-6	o-Xylene	6.4	U
100-42-5	Styrene	6.4	U
75-25-2	Bromoform	6.4	U
98-82-8	Isopropylbenzene	6.4	U
79-34-5	1,1,2,2-Tetrachloroethane	6.4	U
541-73-1	1,3-Dichlorobenzene	6.4	U
106-46-7	1,4-Dichlorobenzene	6.4	U
95-50-1	1,2-Dichlorobenzene	6.4	U
96-12-8	1,2-Dibromo-3-chloropropane	6.4	U
120-82-1	1,2,4-Trichlorobenzene	6.4	U
87-61-6	1,2,3-Trichlorobenzene	6.4	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	6.4	U
123-91-1	1,4-Dioxane	130	U
110-82-7	Cyclohexane	6.4	U
79-20-9	Methyl acetate	6.4	U
108-87-2	Methylcyclohexane	6.4	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB-18(1-2)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L2631-14A

Sample wt/vol: 5.10 (g/mL) G Lab File ID: V5O1072.D

Level: (TRACE/LOW/MED) LOW Date Received: 12/21/2012

% Moisture: not dec. 13 Date Analyzed: 12/26/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	5.6	U
74-87-3	Chloromethane	5.6	U
75-01-4	Vinyl chloride	5.6	U
74-83-9	Bromomethane	5.6	U
75-00-3	Chloroethane	5.6	U
75-69-4	Trichlorofluoromethane	5.6	U
75-35-4	1,1-Dichloroethene	5.6	U
67-64-1	Acetone	5.6	U
75-15-0	Carbon disulfide	5.6	U
75-09-2	Methylene chloride	5.6	U
156-60-5	trans-1,2-Dichloroethene	5.6	U
1634-04-4	Methyl tert-butyl ether	5.6	U
75-34-3	1,1-Dichloroethane	5.6	U
78-93-3	2-Butanone	5.6	U
156-59-2	cis-1,2-Dichloroethene	5.6	U
74-97-5	Bromochloromethane	5.6	U
67-66-3	Chloroform	1.3	J
71-55-6	1,1,1-Trichloroethane	5.6	U
56-23-5	Carbon tetrachloride	5.6	U
107-06-2	1,2-Dichloroethane	5.6	U
71-43-2	Benzene	5.6	U
79-01-6	Trichloroethene	5.6	U
78-87-5	1,2-Dichloropropane	5.6	U
75-27-4	Bromodichloromethane	5.6	U
10061-01-5	cis-1,3-Dichloropropene	5.6	U
108-10-1	4-Methyl-2-pentanone	5.6	U
108-88-3	Toluene	5.6	U
10061-02-6	trans-1,3-Dichloropropene	5.6	U
79-00-5	1,1,2-Trichloroethane	5.6	U
127-18-4	Tetrachloroethene	5.6	U
591-78-6	2-Hexanone	5.6	U
124-48-1	Dibromochloromethane	5.6	U
106-93-4	1,2-Dibromoethane	5.6	U
108-90-7	Chlorobenzene	5.6	U
100-41-4	Ethylbenzene	5.6	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB-18(1-2)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L2631-14A

Sample wt/vol: 5.10 (g/mL) G Lab File ID: V5O1072.D

Level: (TRACE/LOW/MED) LOW Date Received: 12/21/2012

% Moisture: not dec. 13 Date Analyzed: 12/26/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
179601-23-1	m,p-Xylene	5.6	U
95-47-6	o-Xylene	5.6	U
100-42-5	Styrene	5.6	U
75-25-2	Bromoform	5.6	U
98-82-8	Isopropylbenzene	5.6	U
79-34-5	1,1,2,2-Tetrachloroethane	5.6	U
541-73-1	1,3-Dichlorobenzene	5.6	U
106-46-7	1,4-Dichlorobenzene	5.6	U
95-50-1	1,2-Dichlorobenzene	5.6	U
96-12-8	1,2-Dibromo-3-chloropropane	5.6	U
120-82-1	1,2,4-Trichlorobenzene	5.6	U
87-61-6	1,2,3-Trichlorobenzene	5.6	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.6	U
123-91-1	1,4-Dioxane	110	U
110-82-7	Cyclohexane	5.6	U
79-20-9	Methyl acetate	5.6	U
108-87-2	Methylcyclohexane	5.6	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB-18(6-7)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L2631-15C

Sample wt/vol: 5.10 (g/mL) G Lab File ID: V5O1073.D

Level: (TRACE/LOW/MED) LOW Date Received: 12/21/2012

% Moisture: not dec. 27 Date Analyzed: 12/26/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	6.7	U
74-87-3	Chloromethane	6.7	U
75-01-4	Vinyl chloride	6.7	U
74-83-9	Bromomethane	6.7	U
75-00-3	Chloroethane	6.7	U
75-69-4	Trichlorofluoromethane	6.7	U
75-35-4	1,1-Dichloroethene	6.7	U
67-64-1	Acetone	6.7	U
75-15-0	Carbon disulfide	6.7	U
75-09-2	Methylene chloride	1.8	J
156-60-5	trans-1,2-Dichloroethene	6.7	U
1634-04-4	Methyl tert-butyl ether	6.7	U
75-34-3	1,1-Dichloroethane	6.7	U
78-93-3	2-Butanone	6.7	U
156-59-2	cis-1,2-Dichloroethene	6.7	U
74-97-5	Bromochloromethane	6.7	U
67-66-3	Chloroform	1.6	J
71-55-6	1,1,1-Trichloroethane	6.7	U
56-23-5	Carbon tetrachloride	6.7	U
107-06-2	1,2-Dichloroethane	6.7	U
71-43-2	Benzene	6.7	U
79-01-6	Trichloroethene	6.7	U
78-87-5	1,2-Dichloropropane	6.7	U
75-27-4	Bromodichloromethane	6.7	U
10061-01-5	cis-1,3-Dichloropropene	6.7	U
108-10-1	4-Methyl-2-pentanone	6.7	U
108-88-3	Toluene	6.7	U
10061-02-6	trans-1,3-Dichloropropene	6.7	U
79-00-5	1,1,2-Trichloroethane	6.7	U
127-18-4	Tetrachloroethene	4.9	J
591-78-6	2-Hexanone	6.7	U
124-48-1	Dibromochloromethane	6.7	U
106-93-4	1,2-Dibromoethane	6.7	U
108-90-7	Chlorobenzene	6.7	U
100-41-4	Ethylbenzene	6.7	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB-18(6-7)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L2631-15C

Sample wt/vol: 5.10 (g/mL) G Lab File ID: V5O1073.D

Level: (TRACE/LOW/MED) LOW Date Received: 12/21/2012

% Moisture: not dec. 27 Date Analyzed: 12/26/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
179601-23-1	m,p-Xylene	6.7	U
95-47-6	o-Xylene	6.7	U
100-42-5	Styrene	6.7	U
75-25-2	Bromoform	6.7	U
98-82-8	Isopropylbenzene	6.7	U
79-34-5	1,1,2,2-Tetrachloroethane	6.7	U
541-73-1	1,3-Dichlorobenzene	6.7	U
106-46-7	1,4-Dichlorobenzene	6.7	U
95-50-1	1,2-Dichlorobenzene	6.7	U
96-12-8	1,2-Dibromo-3-chloropropane	6.7	U
120-82-1	1,2,4-Trichlorobenzene	6.7	U
87-61-6	1,2,3-Trichlorobenzene	6.7	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	6.7	U
123-91-1	1,4-Dioxane	130	U
110-82-7	Cyclohexane	6.7	U
79-20-9	Methyl acetate	6.7	U
108-87-2	Methylcyclohexane	6.7	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB-18(8-9)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L2631-16A

Sample wt/vol: 5.10 (g/mL) G Lab File ID: V5O1074.D

Level: (TRACE/LOW/MED) LOW Date Received: 12/21/2012

% Moisture: not dec. 20 Date Analyzed: 12/26/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	6.2	U
74-87-3	Chloromethane	6.2	U
75-01-4	Vinyl chloride	6.2	U
74-83-9	Bromomethane	6.2	U
75-00-3	Chloroethane	6.2	U
75-69-4	Trichlorofluoromethane	6.2	U
75-35-4	1,1-Dichloroethene	6.2	U
67-64-1	Acetone	6.2	U
75-15-0	Carbon disulfide	6.2	U
75-09-2	Methylene chloride	6.2	U
156-60-5	trans-1,2-Dichloroethene	6.2	U
1634-04-4	Methyl tert-butyl ether	6.2	U
75-34-3	1,1-Dichloroethane	6.2	U
78-93-3	2-Butanone	6.2	U
156-59-2	cis-1,2-Dichloroethene	6.2	U
74-97-5	Bromochloromethane	6.2	U
67-66-3	Chloroform	6.2	U
71-55-6	1,1,1-Trichloroethane	6.2	U
56-23-5	Carbon tetrachloride	6.2	U
107-06-2	1,2-Dichloroethane	6.2	U
71-43-2	Benzene	6.2	U
79-01-6	Trichloroethene	6.2	U
78-87-5	1,2-Dichloropropane	6.2	U
75-27-4	Bromodichloromethane	6.2	U
10061-01-5	cis-1,3-Dichloropropene	6.2	U
108-10-1	4-Methyl-2-pentanone	6.2	U
108-88-3	Toluene	6.2	U
10061-02-6	trans-1,3-Dichloropropene	6.2	U
79-00-5	1,1,2-Trichloroethane	6.2	U
127-18-4	Tetrachloroethene	140	
591-78-6	2-Hexanone	6.2	U
124-48-1	Dibromochloromethane	6.2	U
106-93-4	1,2-Dibromoethane	6.2	U
108-90-7	Chlorobenzene	6.2	U
100-41-4	Ethylbenzene	6.2	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB-18(8-9)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L2631-16A

Sample wt/vol: 5.10 (g/mL) G Lab File ID: V5O1074.D

Level: (TRACE/LOW/MED) LOW Date Received: 12/21/2012

% Moisture: not dec. 20 Date Analyzed: 12/26/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
179601-23-1	m,p-Xylene	6.2	U
95-47-6	o-Xylene	6.2	U
100-42-5	Styrene	6.2	U
75-25-2	Bromoform	6.2	U
98-82-8	Isopropylbenzene	6.2	U
79-34-5	1,1,2,2-Tetrachloroethane	6.2	U
541-73-1	1,3-Dichlorobenzene	6.2	U
106-46-7	1,4-Dichlorobenzene	6.2	U
95-50-1	1,2-Dichlorobenzene	6.2	U
96-12-8	1,2-Dibromo-3-chloropropane	6.2	U
120-82-1	1,2,4-Trichlorobenzene	6.2	U
87-61-6	1,2,3-Trichlorobenzene	6.2	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	6.2	U
123-91-1	1,4-Dioxane	120	U
110-82-7	Cyclohexane	6.2	U
79-20-9	Methyl acetate	6.2	U
108-87-2	Methylcyclohexane	6.2	U

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
SB-18(11-12)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L2631-17A

Sample wt/vol: 4.80 (g/mL) G Lab File ID: V5O1084.D

Level: (TRACE/LOW/MED) LOW Date Received: 12/21/2012

% Moisture: not dec. 24 Date Analyzed: 12/27/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	6.8	U
74-87-3	Chloromethane	6.8	U
75-01-4	Vinyl chloride	6.8	U
74-83-9	Bromomethane	6.8	U
75-00-3	Chloroethane	6.8	U
75-69-4	Trichlorofluoromethane	6.8	U
75-35-4	1,1-Dichloroethene	6.8	U
67-64-1	Acetone	6.8	U
75-15-0	Carbon disulfide	6.8	U
75-09-2	Methylene chloride	6.8	U
156-60-5	trans-1,2-Dichloroethene	6.8	U
1634-04-4	Methyl tert-butyl ether	6.8	U
75-34-3	1,1-Dichloroethane	6.8	U
78-93-3	2-Butanone	6.8	U
156-59-2	cis-1,2-Dichloroethene	6.8	U
74-97-5	Bromochloromethane	6.8	U
67-66-3	Chloroform	6.8	U
71-55-6	1,1,1-Trichloroethane	6.8	U
56-23-5	Carbon tetrachloride	6.8	U
107-06-2	1,2-Dichloroethane	6.8	U
71-43-2	Benzene	6.8	U
79-01-6	Trichloroethene	6.8	U
78-87-5	1,2-Dichloropropane	6.8	U
75-27-4	Bromodichloromethane	6.8	U
10061-01-5	cis-1,3-Dichloropropene	6.8	U
108-10-1	4-Methyl-2-pentanone	6.8	U
108-88-3	Toluene	6.8	U
10061-02-6	trans-1,3-Dichloropropene	6.8	U
79-00-5	1,1,2-Trichloroethane	6.8	U
127-18-4	Tetrachloroethene	38	
591-78-6	2-Hexanone	6.8	U
124-48-1	Dibromochloromethane	6.8	U
106-93-4	1,2-Dibromoethane	6.8	U
108-90-7	Chlorobenzene	6.8	U
100-41-4	Ethylbenzene	6.8	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB-18(11-12)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L2631-17A

Sample wt/vol: 4.80 (g/mL) G Lab File ID: V5O1084.D

Level: (TRACE/LOW/MED) LOW Date Received: 12/21/2012

% Moisture: not dec. 24 Date Analyzed: 12/27/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
179601-23-1	m,p-Xylene	6.8	U
95-47-6	o-Xylene	6.8	U
100-42-5	Styrene	6.8	U
75-25-2	Bromoform	6.8	U
98-82-8	Isopropylbenzene	6.8	U
79-34-5	1,1,2,2-Tetrachloroethane	6.8	U
541-73-1	1,3-Dichlorobenzene	6.8	U
106-46-7	1,4-Dichlorobenzene	6.8	U
95-50-1	1,2-Dichlorobenzene	6.8	U
96-12-8	1,2-Dibromo-3-chloropropane	6.8	U
120-82-1	1,2,4-Trichlorobenzene	6.8	U
87-61-6	1,2,3-Trichlorobenzene	6.8	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	6.8	U
123-91-1	1,4-Dioxane	140	U
110-82-7	Cyclohexane	6.8	U
79-20-9	Methyl acetate	6.8	U
108-87-2	Methylcyclohexane	6.8	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB-19(2-3)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L2631-18A

Sample wt/vol: 4.80 (g/mL) G Lab File ID: V5O1085.D

Level: (TRACE/LOW/MED) LOW Date Received: 12/21/2012

% Moisture: not dec. 22 Date Analyzed: 12/27/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	6.7	U
74-87-3	Chloromethane	6.7	U
75-01-4	Vinyl chloride	6.7	U
74-83-9	Bromomethane	6.7	U
75-00-3	Chloroethane	6.7	U
75-69-4	Trichlorofluoromethane	6.7	U
75-35-4	1,1-Dichloroethene	6.7	U
67-64-1	Acetone	6.7	U
75-15-0	Carbon disulfide	6.7	U
75-09-2	Methylene chloride	6.7	U
156-60-5	trans-1,2-Dichloroethene	6.7	U
1634-04-4	Methyl tert-butyl ether	6.7	U
75-34-3	1,1-Dichloroethane	6.7	U
78-93-3	2-Butanone	6.7	U
156-59-2	cis-1,2-Dichloroethene	6.7	U
74-97-5	Bromochloromethane	6.7	U
67-66-3	Chloroform	6.7	U
71-55-6	1,1,1-Trichloroethane	6.7	U
56-23-5	Carbon tetrachloride	6.7	U
107-06-2	1,2-Dichloroethane	6.7	U
71-43-2	Benzene	6.7	U
79-01-6	Trichloroethene	6.7	U
78-87-5	1,2-Dichloropropane	6.7	U
75-27-4	Bromodichloromethane	6.7	U
10061-01-5	cis-1,3-Dichloropropene	6.7	U
108-10-1	4-Methyl-2-pentanone	6.7	U
108-88-3	Toluene	6.7	U
10061-02-6	trans-1,3-Dichloropropene	6.7	U
79-00-5	1,1,2-Trichloroethane	6.7	U
127-18-4	Tetrachloroethene	2.4	J
591-78-6	2-Hexanone	6.7	U
124-48-1	Dibromochloromethane	6.7	U
106-93-4	1,2-Dibromoethane	6.7	U
108-90-7	Chlorobenzene	6.7	U
100-41-4	Ethylbenzene	6.7	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB-19(2-3)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L2631-18A

Sample wt/vol: 4.80 (g/mL) G Lab File ID: V5O1085.D

Level: (TRACE/LOW/MED) LOW Date Received: 12/21/2012

% Moisture: not dec. 22 Date Analyzed: 12/27/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
179601-23-1	m,p-Xylene	6.7	U
95-47-6	o-Xylene	6.7	U
100-42-5	Styrene	6.7	U
75-25-2	Bromoform	6.7	U
98-82-8	Isopropylbenzene	6.7	U
79-34-5	1,1,2,2-Tetrachloroethane	6.7	U
541-73-1	1,3-Dichlorobenzene	6.7	U
106-46-7	1,4-Dichlorobenzene	6.7	U
95-50-1	1,2-Dichlorobenzene	6.7	U
96-12-8	1,2-Dibromo-3-chloropropane	6.7	U
120-82-1	1,2,4-Trichlorobenzene	6.7	U
87-61-6	1,2,3-Trichlorobenzene	6.7	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	6.7	U
123-91-1	1,4-Dioxane	130	U
110-82-7	Cyclohexane	6.7	U
79-20-9	Methyl acetate	6.7	U
108-87-2	Methylcyclohexane	6.7	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB-19(7-8)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L2631-19C

Sample wt/vol: 5.00 (g/mL) G Lab File ID: V5O1086.D

Level: (TRACE/LOW/MED) LOW Date Received: 12/21/2012

% Moisture: not dec. 22 Date Analyzed: 12/27/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	6.4	U
74-87-3	Chloromethane	6.4	U
75-01-4	Vinyl chloride	6.4	U
74-83-9	Bromomethane	6.4	U
75-00-3	Chloroethane	6.4	U
75-69-4	Trichlorofluoromethane	6.4	U
75-35-4	1,1-Dichloroethene	6.4	U
67-64-1	Acetone	6.4	U
75-15-0	Carbon disulfide	6.4	U
75-09-2	Methylene chloride	6.4	U
156-60-5	trans-1,2-Dichloroethene	6.4	U
1634-04-4	Methyl tert-butyl ether	6.4	U
75-34-3	1,1-Dichloroethane	6.4	U
78-93-3	2-Butanone	6.4	U
156-59-2	cis-1,2-Dichloroethene	6.4	U
74-97-5	Bromochloromethane	6.4	U
67-66-3	Chloroform	6.4	U
71-55-6	1,1,1-Trichloroethane	6.4	U
56-23-5	Carbon tetrachloride	6.4	U
107-06-2	1,2-Dichloroethane	6.4	U
71-43-2	Benzene	6.4	U
79-01-6	Trichloroethene	6.4	U
78-87-5	1,2-Dichloropropane	6.4	U
75-27-4	Bromodichloromethane	6.4	U
10061-01-5	cis-1,3-Dichloropropene	6.4	U
108-10-1	4-Methyl-2-pentanone	6.4	U
108-88-3	Toluene	6.4	U
10061-02-6	trans-1,3-Dichloropropene	6.4	U
79-00-5	1,1,2-Trichloroethane	6.4	U
127-18-4	Tetrachloroethene	6.4	U
591-78-6	2-Hexanone	6.4	U
124-48-1	Dibromochloromethane	6.4	U
106-93-4	1,2-Dibromoethane	6.4	U
108-90-7	Chlorobenzene	6.4	U
100-41-4	Ethylbenzene	6.4	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB-19(7-8)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L2631-19C

Sample wt/vol: 5.00 (g/mL) G Lab File ID: V5O1086.D

Level: (TRACE/LOW/MED) LOW Date Received: 12/21/2012

% Moisture: not dec. 22 Date Analyzed: 12/27/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
179601-23-1	m,p-Xylene	6.4	U
95-47-6	o-Xylene	6.4	U
100-42-5	Styrene	6.4	U
75-25-2	Bromoform	6.4	U
98-82-8	Isopropylbenzene	6.4	U
79-34-5	1,1,2,2-Tetrachloroethane	6.4	U
541-73-1	1,3-Dichlorobenzene	6.4	U
106-46-7	1,4-Dichlorobenzene	6.4	U
95-50-1	1,2-Dichlorobenzene	6.4	U
96-12-8	1,2-Dibromo-3-chloropropane	6.4	U
120-82-1	1,2,4-Trichlorobenzene	6.4	U
87-61-6	1,2,3-Trichlorobenzene	6.4	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	6.4	U
123-91-1	1,4-Dioxane	130	U
110-82-7	Cyclohexane	6.4	U
79-20-9	Methyl acetate	6.4	U
108-87-2	Methylcyclohexane	6.4	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB-19(9-10)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L2631-20A

Sample wt/vol: 5.10 (g/mL) G Lab File ID: V5O1087.D

Level: (TRACE/LOW/MED) LOW Date Received: 12/21/2012

% Moisture: not dec. 27 Date Analyzed: 12/27/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	6.7	U
74-87-3	Chloromethane	6.7	U
75-01-4	Vinyl chloride	6.7	U
74-83-9	Bromomethane	6.7	U
75-00-3	Chloroethane	6.7	U
75-69-4	Trichlorofluoromethane	6.7	U
75-35-4	1,1-Dichloroethene	6.7	U
67-64-1	Acetone	6.7	U
75-15-0	Carbon disulfide	6.7	U
75-09-2	Methylene chloride	6.7	U
156-60-5	trans-1,2-Dichloroethene	6.7	U
1634-04-4	Methyl tert-butyl ether	6.7	U
75-34-3	1,1-Dichloroethane	6.7	U
78-93-3	2-Butanone	6.7	U
156-59-2	cis-1,2-Dichloroethene	6.7	U
74-97-5	Bromochloromethane	6.7	U
67-66-3	Chloroform	6.7	U
71-55-6	1,1,1-Trichloroethane	6.7	U
56-23-5	Carbon tetrachloride	6.7	U
107-06-2	1,2-Dichloroethane	6.7	U
71-43-2	Benzene	6.7	U
79-01-6	Trichloroethene	6.7	U
78-87-5	1,2-Dichloropropane	6.7	U
75-27-4	Bromodichloromethane	6.7	U
10061-01-5	cis-1,3-Dichloropropene	6.7	U
108-10-1	4-Methyl-2-pentanone	6.7	U
108-88-3	Toluene	6.7	U
10061-02-6	trans-1,3-Dichloropropene	6.7	U
79-00-5	1,1,2-Trichloroethane	6.7	U
127-18-4	Tetrachloroethene	6.7	U
591-78-6	2-Hexanone	6.7	U
124-48-1	Dibromochloromethane	6.7	U
106-93-4	1,2-Dibromoethane	6.7	U
108-90-7	Chlorobenzene	6.7	U
100-41-4	Ethylbenzene	6.7	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB-19(9-10)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L2631-20A

Sample wt/vol: 5.10 (g/mL) G Lab File ID: V5O1087.D

Level: (TRACE/LOW/MED) LOW Date Received: 12/21/2012

% Moisture: not dec. 27 Date Analyzed: 12/27/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
179601-23-1	m,p-Xylene	6.7	U
95-47-6	o-Xylene	6.7	U
100-42-5	Styrene	6.7	U
75-25-2	Bromoform	6.7	U
98-82-8	Isopropylbenzene	6.7	U
79-34-5	1,1,2,2-Tetrachloroethane	6.7	U
541-73-1	1,3-Dichlorobenzene	6.7	U
106-46-7	1,4-Dichlorobenzene	6.7	U
95-50-1	1,2-Dichlorobenzene	6.7	U
96-12-8	1,2-Dibromo-3-chloropropane	6.7	U
120-82-1	1,2,4-Trichlorobenzene	6.7	U
87-61-6	1,2,3-Trichlorobenzene	6.7	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	6.7	U
123-91-1	1,4-Dioxane	130	U
110-82-7	Cyclohexane	6.7	U
79-20-9	Methyl acetate	6.7	U
108-87-2	Methylcyclohexane	6.7	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MB-69922

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: MB-69922

Sample wt/vol: 5.00 (g/mL) G Lab File ID: V5O1053.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. 0.0 Date Analyzed: 12/26/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MB-69922

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: MB-69922

Sample wt/vol: 5.00 (g/mL) G Lab File ID: V5O1053.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. 0.0 Date Analyzed: 12/26/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
179601-23-1	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
123-91-1	1,4-Dioxane	100	U
110-82-7	Cyclohexane	5.0	U
79-20-9	Methyl acetate	5.0	U
108-87-2	Methylcyclohexane	5.0	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MB-69943

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: MB-69943

Sample wt/vol: 5.00 (g/mL) G Lab File ID: V5O1083.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. 0.0 Date Analyzed: 12/27/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	1.3	J
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MB-69943

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: MB-69943

Sample wt/vol: 5.00 (g/mL) G Lab File ID: V5O1083.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. 0.0 Date Analyzed: 12/27/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
179601-23-1	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
123-91-1	1,4-Dioxane	100	U
110-82-7	Cyclohexane	5.0	U
79-20-9	Methyl acetate	5.0	U
108-87-2	Methylcyclohexane	5.0	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MB-69963

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: MB-69963

Sample wt/vol: 5.00 (g/mL) G Lab File ID: V5O1123.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. 0.0 Date Analyzed: 12/28/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MB-69963

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: MB-69963

Sample wt/vol: 5.00 (g/mL) G Lab File ID: V5O1123.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. 0.0 Date Analyzed: 12/28/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
179601-23-1	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
123-91-1	1,4-Dioxane	100	U
110-82-7	Cyclohexane	5.0	U
79-20-9	Methyl acetate	5.0	U
108-87-2	Methylcyclohexane	5.0	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

LCS-69922

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: LCS-69922

Sample wt/vol: 5.00 (g/mL) G Lab File ID: V5O1052.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. 0.0 Date Analyzed: 12/26/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	52	
74-87-3	Chloromethane	52	
75-01-4	Vinyl chloride	52	
74-83-9	Bromomethane	53	
75-00-3	Chloroethane	53	
75-69-4	Trichlorofluoromethane	53	
75-35-4	1,1-Dichloroethene	53	
67-64-1	Acetone	56	
75-15-0	Carbon disulfide	53	
75-09-2	Methylene chloride	46	
156-60-5	trans-1,2-Dichloroethene	52	
1634-04-4	Methyl tert-butyl ether	47	
75-34-3	1,1-Dichloroethane	51	
78-93-3	2-Butanone	52	
156-59-2	cis-1,2-Dichloroethene	50	
74-97-5	Bromochloromethane	48	
67-66-3	Chloroform	50	
71-55-6	1,1,1-Trichloroethane	54	
56-23-5	Carbon tetrachloride	53	
107-06-2	1,2-Dichloroethane	49	
71-43-2	Benzene	50	
79-01-6	Trichloroethene	51	
78-87-5	1,2-Dichloropropane	49	
75-27-4	Bromodichloromethane	50	
10061-01-5	cis-1,3-Dichloropropene	49	
108-10-1	4-Methyl-2-pentanone	49	
108-88-3	Toluene	51	
10061-02-6	trans-1,3-Dichloropropene	49	
79-00-5	1,1,2-Trichloroethane	47	
127-18-4	Tetrachloroethene	50	
591-78-6	2-Hexanone	50	
124-48-1	Dibromochloromethane	50	
106-93-4	1,2-Dibromoethane	49	
108-90-7	Chlorobenzene	52	
100-41-4	Ethylbenzene	52	

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

LCS-69922

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: LCS-69922

Sample wt/vol: 5.00 (g/mL) G Lab File ID: V5O1052.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. 0.0 Date Analyzed: 12/26/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
179601-23-1	m,p-Xylene	110	
95-47-6	o-Xylene	52	
100-42-5	Styrene	52	
75-25-2	Bromoform	50	
98-82-8	Isopropylbenzene	53	
79-34-5	1,1,2,2-Tetrachloroethane	51	
541-73-1	1,3-Dichlorobenzene	52	
106-46-7	1,4-Dichlorobenzene	51	
95-50-1	1,2-Dichlorobenzene	52	
96-12-8	1,2-Dibromo-3-chloropropane	50	
120-82-1	1,2,4-Trichlorobenzene	51	
87-61-6	1,2,3-Trichlorobenzene	51	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	53	
123-91-1	1,4-Dioxane	920	
110-82-7	Cyclohexane	51	
79-20-9	Methyl acetate	45	
108-87-2	Methylcyclohexane	53	

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

LCS-69943

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: LCS-69943

Sample wt/vol: 5.00 (g/mL) G Lab File ID: V5O1082.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. 0.0 Date Analyzed: 12/27/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	47	
74-87-3	Chloromethane	50	
75-01-4	Vinyl chloride	51	
74-83-9	Bromomethane	51	
75-00-3	Chloroethane	52	
75-69-4	Trichlorofluoromethane	51	
75-35-4	1,1-Dichloroethene	51	
67-64-1	Acetone	44	
75-15-0	Carbon disulfide	50	
75-09-2	Methylene chloride	46	
156-60-5	trans-1,2-Dichloroethene	50	
1634-04-4	Methyl tert-butyl ether	49	
75-34-3	1,1-Dichloroethane	50	
78-93-3	2-Butanone	51	
156-59-2	cis-1,2-Dichloroethene	49	
74-97-5	Bromochloromethane	48	
67-66-3	Chloroform	49	B
71-55-6	1,1,1-Trichloroethane	53	
56-23-5	Carbon tetrachloride	53	
107-06-2	1,2-Dichloroethane	49	
71-43-2	Benzene	50	
79-01-6	Trichloroethene	51	
78-87-5	1,2-Dichloropropane	50	
75-27-4	Bromodichloromethane	50	
10061-01-5	cis-1,3-Dichloropropene	50	
108-10-1	4-Methyl-2-pentanone	51	
108-88-3	Toluene	50	
10061-02-6	trans-1,3-Dichloropropene	49	
79-00-5	1,1,2-Trichloroethane	50	
127-18-4	Tetrachloroethene	51	
591-78-6	2-Hexanone	51	
124-48-1	Dibromochloromethane	51	
106-93-4	1,2-Dibromoethane	50	
108-90-7	Chlorobenzene	51	
100-41-4	Ethylbenzene	53	

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

LCS-69943

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: LCS-69943

Sample wt/vol: 5.00 (g/mL) G Lab File ID: V5O1082.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. 0.0 Date Analyzed: 12/27/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
179601-23-1	m,p-Xylene	100	
95-47-6	o-Xylene	52	
100-42-5	Styrene	51	
75-25-2	Bromoform	53	
98-82-8	Isopropylbenzene	53	
79-34-5	1,1,2,2-Tetrachloroethane	50	
541-73-1	1,3-Dichlorobenzene	51	
106-46-7	1,4-Dichlorobenzene	50	
95-50-1	1,2-Dichlorobenzene	49	
96-12-8	1,2-Dibromo-3-chloropropane	52	
120-82-1	1,2,4-Trichlorobenzene	50	
87-61-6	1,2,3-Trichlorobenzene	50	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	46	
123-91-1	1,4-Dioxane	900	
110-82-7	Cyclohexane	47	
79-20-9	Methyl acetate	45	
108-87-2	Methylcyclohexane	46	

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

LCS-69963

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: LCS-69963

Sample wt/vol: 5.00 (g/mL) G Lab File ID: V5O1122.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. 0.0 Date Analyzed: 12/28/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	47	
74-87-3	Chloromethane	53	
75-01-4	Vinyl chloride	50	
74-83-9	Bromomethane	50	
75-00-3	Chloroethane	53	
75-69-4	Trichlorofluoromethane	53	
75-35-4	1,1-Dichloroethene	52	
67-64-1	Acetone	54	
75-15-0	Carbon disulfide	51	
75-09-2	Methylene chloride	51	
156-60-5	trans-1,2-Dichloroethene	50	
1634-04-4	Methyl tert-butyl ether	55	
75-34-3	1,1-Dichloroethane	53	
78-93-3	2-Butanone	58	
156-59-2	cis-1,2-Dichloroethene	52	
74-97-5	Bromochloromethane	53	
67-66-3	Chloroform	52	
71-55-6	1,1,1-Trichloroethane	53	
56-23-5	Carbon tetrachloride	53	
107-06-2	1,2-Dichloroethane	55	
71-43-2	Benzene	52	
79-01-6	Trichloroethene	53	
78-87-5	1,2-Dichloropropane	53	
75-27-4	Bromodichloromethane	55	
10061-01-5	cis-1,3-Dichloropropene	55	
108-10-1	4-Methyl-2-pentanone	59	
108-88-3	Toluene	52	
10061-02-6	trans-1,3-Dichloropropene	54	
79-00-5	1,1,2-Trichloroethane	55	
127-18-4	Tetrachloroethene	52	
591-78-6	2-Hexanone	58	
124-48-1	Dibromochloromethane	54	
106-93-4	1,2-Dibromoethane	54	
108-90-7	Chlorobenzene	52	
100-41-4	Ethylbenzene	52	

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

LCS-69963

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: LCS-69963

Sample wt/vol: 5.00 (g/mL) G Lab File ID: V5O1122.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. 0.0 Date Analyzed: 12/28/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
179601-23-1	m,p-Xylene	100	
95-47-6	o-Xylene	51	
100-42-5	Styrene	52	
75-25-2	Bromoform	55	
98-82-8	Isopropylbenzene	52	
79-34-5	1,1,2,2-Tetrachloroethane	54	
541-73-1	1,3-Dichlorobenzene	51	
106-46-7	1,4-Dichlorobenzene	52	
95-50-1	1,2-Dichlorobenzene	53	
96-12-8	1,2-Dibromo-3-chloropropane	57	
120-82-1	1,2,4-Trichlorobenzene	53	
87-61-6	1,2,3-Trichlorobenzene	54	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	52	
123-91-1	1,4-Dioxane	1100	
110-82-7	Cyclohexane	50	
79-20-9	Methyl acetate	55	
108-87-2	Methylcyclohexane	50	

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB-15(5-6)MS

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L2631-01CMS

Sample wt/vol: 4.90 (g/mL) G Lab File ID: V5O1075.D

Level: (TRACE/LOW/MED) LOW Date Received: 12/21/2012

% Moisture: not dec. 27 Date Analyzed: 12/26/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	71	
74-87-3	Chloromethane	73	
75-01-4	Vinyl chloride	69	
74-83-9	Bromomethane	72	
75-00-3	Chloroethane	70	
75-69-4	Trichlorofluoromethane	71	
75-35-4	1,1-Dichloroethene	71	
67-64-1	Acetone	65	
75-15-0	Carbon disulfide	70	
75-09-2	Methylene chloride	69	
156-60-5	trans-1,2-Dichloroethene	71	
1634-04-4	Methyl tert-butyl ether	71	
75-34-3	1,1-Dichloroethane	72	
78-93-3	2-Butanone	71	
156-59-2	cis-1,2-Dichloroethene	71	
74-97-5	Bromochloromethane	71	
67-66-3	Chloroform	72	
71-55-6	1,1,1-Trichloroethane	75	
56-23-5	Carbon tetrachloride	70	
107-06-2	1,2-Dichloroethane	74	
71-43-2	Benzene	73	
79-01-6	Trichloroethene	72	
78-87-5	1,2-Dichloropropane	75	
75-27-4	Bromodichloromethane	74	
10061-01-5	cis-1,3-Dichloropropene	73	
108-10-1	4-Methyl-2-pentanone	70	
108-88-3	Toluene	74	
10061-02-6	trans-1,3-Dichloropropene	71	
79-00-5	1,1,2-Trichloroethane	72	
127-18-4	Tetrachloroethene	74	
591-78-6	2-Hexanone	66	
124-48-1	Dibromochloromethane	73	
106-93-4	1,2-Dibromoethane	71	
108-90-7	Chlorobenzene	74	
100-41-4	Ethylbenzene	73	

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB-15(5-6)MS

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L2631-01CMS

Sample wt/vol: 4.90 (g/mL) G Lab File ID: V5O1075.D

Level: (TRACE/LOW/MED) LOW Date Received: 12/21/2012

% Moisture: not dec. 27 Date Analyzed: 12/26/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
179601-23-1	m,p-Xylene	140	
95-47-6	o-Xylene	71	
100-42-5	Styrene	72	
75-25-2	Bromoform	73	
98-82-8	Isopropylbenzene	71	
79-34-5	1,1,2,2-Tetrachloroethane	69	
541-73-1	1,3-Dichlorobenzene	73	
106-46-7	1,4-Dichlorobenzene	73	
95-50-1	1,2-Dichlorobenzene	71	
96-12-8	1,2-Dibromo-3-chloropropane	68	
120-82-1	1,2,4-Trichlorobenzene	71	
87-61-6	1,2,3-Trichlorobenzene	69	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	74	
123-91-1	1,4-Dioxane	1400	
110-82-7	Cyclohexane	68	
79-20-9	Methyl acetate	66	
108-87-2	Methylcyclohexane	73	

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB-15(5-6)MSD

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L2631-01CMSD

Sample wt/vol: 4.70 (g/mL) G Lab File ID: V5O1076.D

Level: (TRACE/LOW/MED) LOW Date Received: 12/21/2012

% Moisture: not dec. 27 Date Analyzed: 12/26/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	73	
74-87-3	Chloromethane	73	
75-01-4	Vinyl chloride	71	
74-83-9	Bromomethane	75	
75-00-3	Chloroethane	75	
75-69-4	Trichlorofluoromethane	74	
75-35-4	1,1-Dichloroethene	74	
67-64-1	Acetone	71	
75-15-0	Carbon disulfide	72	
75-09-2	Methylene chloride	72	
156-60-5	trans-1,2-Dichloroethene	73	
1634-04-4	Methyl tert-butyl ether	76	
75-34-3	1,1-Dichloroethane	75	
78-93-3	2-Butanone	75	
156-59-2	cis-1,2-Dichloroethene	75	
74-97-5	Bromochloromethane	77	
67-66-3	Chloroform	74	
71-55-6	1,1,1-Trichloroethane	77	
56-23-5	Carbon tetrachloride	76	
107-06-2	1,2-Dichloroethane	79	
71-43-2	Benzene	75	
79-01-6	Trichloroethene	76	
78-87-5	1,2-Dichloropropane	78	
75-27-4	Bromodichloromethane	79	
10061-01-5	cis-1,3-Dichloropropene	77	
108-10-1	4-Methyl-2-pentanone	79	
108-88-3	Toluene	76	
10061-02-6	trans-1,3-Dichloropropene	76	
79-00-5	1,1,2-Trichloroethane	78	
127-18-4	Tetrachloroethene	78	
591-78-6	2-Hexanone	79	
124-48-1	Dibromochloromethane	79	
106-93-4	1,2-Dibromoethane	78	
108-90-7	Chlorobenzene	78	
100-41-4	Ethylbenzene	76	

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB-15(5-6)MSD

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L2631-01CMSD

Sample wt/vol: 4.70 (g/mL) G Lab File ID: V5O1076.D

Level: (TRACE/LOW/MED) LOW Date Received: 12/21/2012

% Moisture: not dec. 27 Date Analyzed: 12/26/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
179601-23-1	m,p-Xylene	150	
95-47-6	o-Xylene	77	
100-42-5	Styrene	77	
75-25-2	Bromoform	77	
98-82-8	Isopropylbenzene	76	
79-34-5	1,1,2,2-Tetrachloroethane	78	
541-73-1	1,3-Dichlorobenzene	74	
106-46-7	1,4-Dichlorobenzene	75	
95-50-1	1,2-Dichlorobenzene	75	
96-12-8	1,2-Dibromo-3-chloropropane	84	
120-82-1	1,2,4-Trichlorobenzene	75	
87-61-6	1,2,3-Trichlorobenzene	77	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	74	
123-91-1	1,4-Dioxane	1500	
110-82-7	Cyclohexane	72	
79-20-9	Methyl acetate	75	
108-87-2	Methylcyclohexane	76	

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB-18(11-12)MS

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L2631-17AMS

Sample wt/vol: 4.80 (g/mL) G Lab File ID: V5O1096.D

Level: (TRACE/LOW/MED) LOW Date Received: 12/21/2012

% Moisture: not dec. 24 Date Analyzed: 12/27/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	58	
74-87-3	Chloromethane	68	
75-01-4	Vinyl chloride	63	
74-83-9	Bromomethane	44	
75-00-3	Chloroethane	36	
75-69-4	Trichlorofluoromethane	54	
75-35-4	1,1-Dichloroethene	67	
67-64-1	Acetone	64	
75-15-0	Carbon disulfide	64	
75-09-2	Methylene chloride	67	
156-60-5	trans-1,2-Dichloroethene	68	
1634-04-4	Methyl tert-butyl ether	71	
75-34-3	1,1-Dichloroethane	68	
78-93-3	2-Butanone	67	
156-59-2	cis-1,2-Dichloroethene	69	
74-97-5	Bromochloromethane	72	
67-66-3	Chloroform	68	B
71-55-6	1,1,1-Trichloroethane	69	
56-23-5	Carbon tetrachloride	64	
107-06-2	1,2-Dichloroethane	73	
71-43-2	Benzene	69	
79-01-6	Trichloroethene	70	
78-87-5	1,2-Dichloropropane	71	
75-27-4	Bromodichloromethane	70	
10061-01-5	cis-1,3-Dichloropropene	69	
108-10-1	4-Methyl-2-pentanone	71	
108-88-3	Toluene	70	
10061-02-6	trans-1,3-Dichloropropene	68	
79-00-5	1,1,2-Trichloroethane	70	
127-18-4	Tetrachloroethene	140	
591-78-6	2-Hexanone	65	
124-48-1	Dibromochloromethane	69	
106-93-4	1,2-Dibromoethane	68	
108-90-7	Chlorobenzene	69	
100-41-4	Ethylbenzene	68	

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB-18(11-12)MS

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L2631-17AMS

Sample wt/vol: 4.80 (g/mL) G Lab File ID: V5O1096.D

Level: (TRACE/LOW/MED) LOW Date Received: 12/21/2012

% Moisture: not dec. 24 Date Analyzed: 12/27/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
179601-23-1	m,p-Xylene	140	
95-47-6	o-Xylene	68	
100-42-5	Styrene	69	
75-25-2	Bromoform	67	
98-82-8	Isopropylbenzene	67	
79-34-5	1,1,2,2-Tetrachloroethane	69	
541-73-1	1,3-Dichlorobenzene	69	
106-46-7	1,4-Dichlorobenzene	72	
95-50-1	1,2-Dichlorobenzene	70	
96-12-8	1,2-Dibromo-3-chloropropane	70	
120-82-1	1,2,4-Trichlorobenzene	66	
87-61-6	1,2,3-Trichlorobenzene	69	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	61	
123-91-1	1,4-Dioxane	1500	
110-82-7	Cyclohexane	61	
79-20-9	Methyl acetate	69	
108-87-2	Methylcyclohexane	61	

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB-18(11-12)MSD

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L2631-17AMSD

Sample wt/vol: 5.10 (g/mL) G Lab File ID: V5O1130.D

Level: (TRACE/LOW/MED) LOW Date Received: 12/21/2012

% Moisture: not dec. 24 Date Analyzed: 12/28/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	51	
74-87-3	Chloromethane	65	
75-01-4	Vinyl chloride	57	
74-83-9	Bromomethane	42	
75-00-3	Chloroethane	35	
75-69-4	Trichlorofluoromethane	52	
75-35-4	1,1-Dichloroethene	58	
67-64-1	Acetone	58	
75-15-0	Carbon disulfide	57	
75-09-2	Methylene chloride	66	
156-60-5	trans-1,2-Dichloroethene	61	
1634-04-4	Methyl tert-butyl ether	68	
75-34-3	1,1-Dichloroethane	65	
78-93-3	2-Butanone	67	
156-59-2	cis-1,2-Dichloroethene	66	
74-97-5	Bromochloromethane	67	
67-66-3	Chloroform	66	
71-55-6	1,1,1-Trichloroethane	62	
56-23-5	Carbon tetrachloride	60	
107-06-2	1,2-Dichloroethane	73	
71-43-2	Benzene	66	
79-01-6	Trichloroethene	66	
78-87-5	1,2-Dichloropropane	68	
75-27-4	Bromodichloromethane	69	
10061-01-5	cis-1,3-Dichloropropene	60	
108-10-1	4-Methyl-2-pentanone	70	
108-88-3	Toluene	66	
10061-02-6	trans-1,3-Dichloropropene	59	
79-00-5	1,1,2-Trichloroethane	70	
127-18-4	Tetrachloroethene	140	
591-78-6	2-Hexanone	67	
124-48-1	Dibromochloromethane	68	
106-93-4	1,2-Dibromoethane	69	
108-90-7	Chlorobenzene	66	
100-41-4	Ethylbenzene	63	

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB-18(11-12)MSD

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L2631-17AMSD

Sample wt/vol: 5.10 (g/mL) G Lab File ID: V5O1130.D

Level: (TRACE/LOW/MED) LOW Date Received: 12/21/2012

% Moisture: not dec. 24 Date Analyzed: 12/28/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
179601-23-1	m,p-Xylene	120	
95-47-6	o-Xylene	63	
100-42-5	Styrene	65	
75-25-2	Bromoform	68	
98-82-8	Isopropylbenzene	61	
79-34-5	1,1,2,2-Tetrachloroethane	70	
541-73-1	1,3-Dichlorobenzene	65	
106-46-7	1,4-Dichlorobenzene	68	
95-50-1	1,2-Dichlorobenzene	68	
96-12-8	1,2-Dibromo-3-chloropropane	75	
120-82-1	1,2,4-Trichlorobenzene	61	
87-61-6	1,2,3-Trichlorobenzene	67	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	55	
123-91-1	1,4-Dioxane	1400	
110-82-7	Cyclohexane	54	
79-20-9	Methyl acetate	73	
108-87-2	Methylcyclohexane	52	

2D - FORM II VOA-4

SOIL VOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

Level: (LOW/MED) LOW

	CLIENT SAMPLE NO.	VDMC1 (DBFM) #	VDMC2 (DCE) #	VDMC3 (TOL) #	VDMC4 (BFB) #				TOT OUT
01	LCS-69922	95	91	103	98				0
02	MB-69922	97	92	102	100				0
03	SB-15(5-6)	99	93	104	99				0
04	SB-15(7-8)	98	91	105	100				0
05	SB-16(5-6)	101	95	107	94				0
06	SB-16(6-7)	99	95	101	96				0
07	SB-17(1-2)	108	101	108	96				0
08	SB-17(5-6)	103	101	109	93				0
09	SB-17(6-7)	99	99	103	100				0
10	SB-17(7-8)	98	93	104	100				0
11	SB-17(8-9)	95	97	104	101				0
12	SB-18(1-2)	102	99	106	98				0
13	SB-18(6-7)	97	102	103	101				0
14	SB-18(8-9)	98	93	103	97				0
15	SB-15(5-6)MS	102	100	101	97				0
16	SB-15(5-6)MSD	102	100	101	100				0
17	LCS-69943	98	99	104	101				0
18	MB-69943	100	96	102	103				0
19	SB-18(11-12)	99	94	102	99				0
20	SB-19(2-3)	103	99	106	97				0
21	SB-19(7-8)	99	98	102	100				0
22	SB-19(9-10)	101	96	102	101				0
23	SB-15(9-10)	103	99	101	99				0
24	SB-16(8-9)	102	90	104	94				0
25	SB-16(9-10)	101	94	101	103				0
26	SB-16(10-11)	102	98	99	100				0

		QC LIMITS
VDMC1	(DBFM) Dibromofluoromethane	(76-128)
VDMC2	(DCE) = 1,2-Dichloroethane-d4	(88-110)
VDMC3	(TOL) = Toluene-d8	(85-115)
VDMC4	(BFB) = Bromofluorobenzene	(85-120)

Column to be used to flag recovery values

* Values outside of contract required QC limits

2D - FORM II VOA-4

SOIL VOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

Level: (LOW/MED) LOW

	CLIENT SAMPLE NO.	VDMC1 (DBFM) #	VDMC2 (DCE) #	VDMC3 (TOL) #	VDMC4 (BFB) #				TOT OUT
27	SB-18(11-12) MS	102	105	99	99				0
28	LCS-69963	101	104	100	101				0
29	MB-69963	102	95	101	100				0
30	SB-18(11-12) MSD	106	107	99	100				0

		QC LIMITS
VDMC1	(DBFM) Dibromofluoromethane	(76-128)
VDMC2	(DCE) = 1,2-Dichloroethane-d4	(88-110)
VDMC3	(TOL) = Toluene-d8	(85-115)
VDMC4	(BFB) = Bromofluorobenzene	(85-120)

Column to be used to flag recovery values

* Values outside of contract required QC limits

som12.12.17.A

3B - FORM III VOA-2

SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

Matrix Spike - EPA Sample No.: SB-15(5-6) Level: (LOW/MED) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS %REC	#	QC. LIMITS REC.
Dichlorodifluoromethane	69.8435	0.0000	71.2523	102		35-135
Chloromethane	69.8435	0.0000	73.0920	105		50-130
Vinyl chloride	69.8435	0.0000	69.1076	99		60-125
Bromomethane	69.8435	0.0000	71.9875	103		30-160
Chloroethane	69.8435	0.0000	69.7819	100		40-155
Trichlorofluoromethane	69.8435	0.0000	71.1753	102		25-185
1,1-Dichloroethene	69.8435	0.0000	70.7806	101		65-135
Acetone	69.8435	0.0000	64.9778	93		20-160
Carbon disulfide	69.8435	0.0000	70.2263	101		45-160
Methylene chloride	69.8435	0.0000	68.7123	98		55-140
trans-1,2-Dichloroethene	69.8435	0.0000	70.7878	101		65-135
Methyl tert-butyl ether	69.8435	0.0000	70.9526	102		75-126
1,1-Dichloroethane	69.8435	0.0000	71.7658	103		75-125
2-Butanone	69.8435	0.0000	71.2281	102		30-160
cis-1,2-Dichloroethene	69.8435	0.0000	70.5040	101		65-125
Bromochloromethane	69.8435	0.0000	70.9462	102		70-125
Chloroform	69.8435	0.0000	71.8529	103		70-125
1,1,1-Trichloroethane	69.8435	0.0000	75.1522	108		70-135
Carbon tetrachloride	69.8435	0.0000	70.4798	101		65-135
1,2-Dichloroethane	69.8435	0.0000	73.5652	105		70-135
Benzene	69.8435	0.0000	72.7362	104		75-125
Trichloroethene	69.8435	0.0000	71.7496	103		75-125
1,2-Dichloropropane	69.8435	0.0000	74.6081	107		70-120
Bromodichloromethane	69.8435	0.0000	74.4174	107		70-130
cis-1,3-Dichloropropene	69.8435	0.0000	72.7735	104		70-125
4-Methyl-2-pentanone	69.8435	0.0000	69.5122	100		45-145
Toluene	69.8435	0.0000	73.8480	106		70-125
trans-1,3-Dichloropropene	69.8435	0.0000	71.3640	102		65-125
1,1,2-Trichloroethane	69.8435	0.0000	72.2144	103		60-125
Tetrachloroethene	69.8435	18.3533	73.8550	79		65-140
2-Hexanone	69.8435	0.0000	66.3522	95		45-145
Dibromochloromethane	69.8435	0.0000	72.7115	104		65-130
1,2-Dibromoethane	69.8435	0.0000	71.3110	102		70-125
Chlorobenzene	69.8435	0.0000	73.6498	105		75-125
Ethylbenzene	69.8435	0.0000	72.7654	104		75-125
m,p-Xylene	139.6869	0.0000	142.8927	102		80-125
o-Xylene	69.8435	0.0000	71.0381	102		75-125
Styrene	69.8435	0.0000	71.5222	102		75-125
Bromoform	69.8435	0.0000	73.3286	105		55-135
Isopropylbenzene	69.8435	0.0000	71.0849	102		75-130
1,1,2,2-Tetrachloroethane	69.8435	0.0000	69.3408	99		55-130
1,3-Dichlorobenzene	69.8435	0.0000	72.9845	104		70-125
1,4-Dichlorobenzene	69.8435	0.0000	72.5638	104		70-125
1,2-Dichlorobenzene	69.8435	0.0000	71.0910	102		75-120

3B - FORM III VOA-2

SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

Matrix Spike - EPA Sample No.: SB-15(5-6) Level: (LOW/MED) LOW

1,2-Dibromo-3-chloropropan	69.8435	0.0000	67.6742	97		40-135
1,2,4-Trichlorobenzene	69.8435	0.0000	70.6573	101		65-130
1,2,3-Trichlorobenzene	69.8435	0.0000	69.2986	99		60-135
1,1,2-Trichloro-1,2,2-trif	69.8435	0.0000	73.8016	106		70-130
1,4-Dioxane	1396.8693	0.0000	1398.5041	100		70-130
Cyclohexane	69.8435	0.0000	68.1240	98		70-130
Methyl acetate	69.8435	0.0000	66.2365	95		70-130
Methylcyclohexane	69.8435	0.0000	72.8134	104		70-130

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD %REC	#	%RPD	#	QC LIMITS RPD	QC LIMITS REC.
Dichlorodifluoromethane	72.8155	72.9182	100		2		0-40	35-135
Chloromethane	72.8155	73.3529	101		4		0-40	50-130
Vinyl chloride	72.8155	71.3370	98		1		0-40	60-125
Bromomethane	72.8155	75.3864	104		0		0-40	30-160
Chloroethane	72.8155	75.4156	104		4		0-40	40-155
Trichlorofluoromethane	72.8155	73.5203	101		1		0-40	25-185
1,1-Dichloroethene	72.8155	73.5995	101		0		0-40	65-135
Acetone	72.8155	70.8622	97		5		0-40	20-160
Carbon disulfide	72.8155	72.4214	99		1		0-40	45-160
Methylene chloride	72.8155	72.1692	99		1		0-40	55-140
trans-1,2-Dichloroethene	72.8155	73.1088	100		1		0-40	65-135
Methyl tert-butyl ether	72.8155	76.4259	105		3		0-40	75-126
1,1-Dichloroethane	72.8155	75.2191	103		1		0-40	75-125
2-Butanone	72.8155	74.9679	103		1		0-40	30-160
cis-1,2-Dichloroethene	72.8155	75.3858	104		3		0-40	65-125
Bromochloromethane	72.8155	76.7703	105		4		0-40	70-125
Chloroform	72.8155	74.4047	102		1		0-40	70-125
1,1,1-Trichloroethane	72.8155	77.1550	106		2		0-40	70-135
Carbon tetrachloride	72.8155	75.9224	104		3		0-40	65-135
1,2-Dichloroethane	72.8155	78.6376	108		3		0-40	70-135
Benzene	72.8155	75.1005	103		1		0-40	75-125
Trichloroethene	72.8155	76.4561	105		2		0-40	75-125
1,2-Dichloropropane	72.8155	78.2951	108		1		0-40	70-120
Bromodichloromethane	72.8155	79.2140	109		2		0-40	70-130
cis-1,3-Dichloropropene	72.8155	76.7878	105		1		0-40	70-125
4-Methyl-2-pentanone	72.8155	78.9851	108		9		0-40	45-145
Toluene	72.8155	76.0025	104		1		0-40	70-125
trans-1,3-Dichloropropene	72.8155	75.6941	104		2		0-40	65-125
1,1,2-Trichloroethane	72.8155	77.7987	107		3		0-40	60-125
Tetrachloroethene	72.8155	77.8460	82		3		0-40	65-140
2-Hexanone	72.8155	78.6324	108		13		0-40	45-145
Dibromochloromethane	72.8155	78.6881	108		4		0-40	65-130
1,2-Dibromoethane	72.8155	78.3961	108		5		0-40	70-125
Chlorobenzene	72.8155	77.5510	107		1		0-40	75-125
Ethylbenzene	72.8155	76.4206	105		1		0-40	75-125

3B - FORM III VOA-2

SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

Matrix Spike - EPA Sample No.: SB-15(5-6) Level: (LOW/MED) LOW

m,p-Xylene	145.6311	153.9974	106		3		0-40	80-125
o-Xylene	72.8155	76.8827	106		4		0-40	75-125
Styrene	72.8155	77.2349	106		4		0-40	75-125
Bromoform	72.8155	76.9572	106		1		0-40	55-135
Isopropylbenzene	72.8155	76.3352	105		3		0-40	75-130
1,1,2,2-Tetrachloroethane	72.8155	77.5712	107		7		0-40	55-130
1,3-Dichlorobenzene	72.8155	74.2814	102		2		0-40	70-125
1,4-Dichlorobenzene	72.8155	75.3182	103		0		0-40	70-125
1,2-Dichlorobenzene	72.8155	74.8242	103		1		0-40	75-120
1,2-Dibromo-3-chloropropan	72.8155	83.6408	115		17		0-40	40-135
1,2,4-Trichlorobenzene	72.8155	75.2057	103		2		0-40	65-130
1,2,3-Trichlorobenzene	72.8155	77.0409	106		6		0-40	60-135
1,1,2-Trichloro-1,2,2-trif	72.8155	73.9912	102		4		0-40	70-130
1,4-Dioxane	1456.3106	1514.3640	104		4		0-40	70-130
Cyclohexane	72.8155	71.8417	99		1		0-40	70-130
Methyl acetate	72.8155	74.5692	102		8		0-40	70-130
Methylcyclohexane	72.8155	76.1390	105		0		0-40	70-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 52 outside limits

Spike Recovery: 0 out of 104 outside limits

COMMENTS:

3B - FORM III VOA-2

SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

Matrix Spike - EPA Sample No.: SB-18(11-12) Level: (LOW/MED) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS %REC	#	QC. LIMITS REC.
Dichlorodifluoromethane	68.2571	0.0000	58.1432	85		35-135
Chloromethane	68.2571	0.0000	68.0215	100		50-130
Vinyl chloride	68.2571	0.0000	63.1191	92		60-125
Bromomethane	68.2571	0.0000	44.2590	65		30-160
Chloroethane	68.2571	0.0000	35.5548	52		40-155
Trichlorofluoromethane	68.2571	0.0000	54.2329	79		25-185
1,1-Dichloroethene	68.2571	0.0000	67.0308	98		65-135
Acetone	68.2571	0.0000	63.5529	93		20-160
Carbon disulfide	68.2571	0.0000	63.7454	93		45-160
Methylene chloride	68.2571	0.0000	66.5591	98		55-140
trans-1,2-Dichloroethene	68.2571	0.0000	68.0869	100		65-135
Methyl tert-butyl ether	68.2571	0.0000	71.1534	104		75-126
1,1-Dichloroethane	68.2571	0.0000	68.0022	100		75-125
2-Butanone	68.2571	0.0000	66.5361	97		30-160
cis-1,2-Dichloroethene	68.2571	0.0000	68.6634	101		65-125
Bromochloromethane	68.2571	0.0000	71.7353	105		70-125
Chloroform	68.2571	0.0000	67.8717	99		70-125
1,1,1-Trichloroethane	68.2571	0.0000	69.2877	102		70-135
Carbon tetrachloride	68.2571	0.0000	64.3668	94		65-135
1,2-Dichloroethane	68.2571	0.0000	72.5957	106		70-135
Benzene	68.2571	0.0000	69.2318	101		75-125
Trichloroethene	68.2571	0.0000	70.4153	103		75-125
1,2-Dichloropropane	68.2571	0.0000	70.5887	103		70-120
Bromodichloromethane	68.2571	0.0000	70.4907	103		70-130
cis-1,3-Dichloropropene	68.2571	0.0000	69.4396	102		70-125
4-Methyl-2-pentanone	68.2571	0.0000	71.2226	104		45-145
Toluene	68.2571	0.0000	69.8614	102		70-125
trans-1,3-Dichloropropene	68.2571	0.0000	68.4871	100		65-125
1,1,2-Trichloroethane	68.2571	0.0000	69.5937	102		60-125
Tetrachloroethene	68.2571	37.5551	137.9876	147	*	65-140
2-Hexanone	68.2571	0.0000	65.2465	96		45-145
Dibromochloromethane	68.2571	0.0000	68.5405	100		65-130
1,2-Dibromoethane	68.2571	0.0000	67.7082	99		70-125
Chlorobenzene	68.2571	0.0000	68.8979	101		75-125
Ethylbenzene	68.2571	0.0000	67.6317	99		75-125
m,p-Xylene	136.5142	0.0000	135.4622	99		80-125
o-Xylene	68.2571	0.0000	67.7669	99		75-125
Styrene	68.2571	0.0000	69.2279	101		75-125
Bromoform	68.2571	0.0000	66.8516	98		55-135
Isopropylbenzene	68.2571	0.0000	67.3640	99		75-130
1,1,2,2-Tetrachloroethane	68.2571	0.0000	68.8657	101		55-130
1,3-Dichlorobenzene	68.2571	0.0000	68.6671	101		70-125
1,4-Dichlorobenzene	68.2571	0.0000	71.5322	105		70-125
1,2-Dichlorobenzene	68.2571	0.0000	69.8490	102		75-120

3B - FORM III VOA-2

SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

Matrix Spike - EPA Sample No.: SB-18(11-12) Level: (LOW/MED) LOW

1,2-Dibromo-3-chloropropan	68.2571	0.0000	70.0019	103		40-135
1,2,4-Trichlorobenzene	68.2571	0.0000	66.2571	97		65-130
1,2,3-Trichlorobenzene	68.2571	0.0000	68.9245	101		60-135
1,1,2-Trichloro-1,2,2-trif	68.2571	0.0000	61.3426	90		70-130
1,4-Dioxane	1365.1418	0.0000	1519.2423	111		70-130
Cyclohexane	68.2571	0.0000	60.5477	89		70-130
Methyl acetate	68.2571	0.0000	68.7871	101		70-130
Methylcyclohexane	68.2571	0.0000	60.7054	89		70-130

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD %REC	#	%RPD	#	QC LIMITS RPD	QC LIMITS REC.
Dichlorodifluoromethane	64.2420	50.8038	79		7		0-40	35-135
Chloromethane	64.2420	64.8629	101		1		0-40	50-130
Vinyl chloride	64.2420	56.6648	88		5		0-40	60-125
Bromomethane	64.2420	41.7601	65		0		0-40	30-160
Chloroethane	64.2420	35.4032	55		6		0-40	40-155
Trichlorofluoromethane	64.2420	51.6788	80		1		0-40	25-185
1,1-Dichloroethene	64.2420	57.8345	90		9		0-40	65-135
Acetone	64.2420	57.9654	90		3		0-40	20-160
Carbon disulfide	64.2420	57.1789	89		5		0-40	45-160
Methylene chloride	64.2420	65.6400	102		5		0-40	55-140
trans-1,2-Dichloroethene	64.2420	61.2631	95		4		0-40	65-135
Methyl tert-butyl ether	64.2420	68.4822	107		2		0-40	75-126
1,1-Dichloroethane	64.2420	65.4771	102		2		0-40	75-125
2-Butanone	64.2420	66.8831	104		7		0-40	30-160
cis-1,2-Dichloroethene	64.2420	66.4651	103		3		0-40	65-125
Bromochloromethane	64.2420	66.9963	104		1		0-40	70-125
Chloroform	64.2420	66.1216	103		3		0-40	70-125
1,1,1-Trichloroethane	64.2420	62.3608	97		4		0-40	70-135
Carbon tetrachloride	64.2420	60.0412	93		1		0-40	65-135
1,2-Dichloroethane	64.2420	73.2663	114		7		0-40	70-135
Benzene	64.2420	66.3864	103		2		0-40	75-125
Trichloroethene	64.2420	65.9150	103		1		0-40	75-125
1,2-Dichloropropane	64.2420	68.4057	106		3		0-40	70-120
Bromodichloromethane	64.2420	69.3436	108		4		0-40	70-130
cis-1,3-Dichloropropene	64.2420	59.9188	93		9		0-40	70-125
4-Methyl-2-pentanone	64.2420	70.1162	109		4		0-40	45-145
Toluene	64.2420	66.2430	103		1		0-40	70-125
trans-1,3-Dichloropropene	64.2420	59.0560	92		9		0-40	65-125
1,1,2-Trichloroethane	64.2420	69.6075	108		6		0-40	60-125
Tetrachloroethene	64.2420	137.5629	156	*	6		0-40	65-140
2-Hexanone	64.2420	66.8009	104		8		0-40	45-145
Dibromochloromethane	64.2420	67.7934	106		5		0-40	65-130
1,2-Dibromoethane	64.2420	68.7659	107		8		0-40	70-125
Chlorobenzene	64.2420	65.8380	102		2		0-40	75-125
Ethylbenzene	64.2420	63.0712	98		1		0-40	75-125

3B - FORM III VOA-2

SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

Matrix Spike - EPA Sample No.: SB-18(11-12) Level: (LOW/MED) LOW

m,p-Xylene	128.4839	124.6080	97		2		0-40	80-125
o-Xylene	64.2420	63.2286	98		1		0-40	75-125
Styrene	64.2420	65.0580	101		0		0-40	75-125
Bromoform	64.2420	67.7881	106		7		0-40	55-135
Isopropylbenzene	64.2420	61.0995	95		4		0-40	75-130
1,1,2,2-Tetrachloroethane	64.2420	70.0675	109		8		0-40	55-130
1,3-Dichlorobenzene	64.2420	65.0618	101		1		0-40	70-125
1,4-Dichlorobenzene	64.2420	67.6452	105		0		0-40	70-125
1,2-Dichlorobenzene	64.2420	67.9114	106		3		0-40	75-120
1,2-Dibromo-3-chloropropan	64.2420	75.4162	117		13		0-40	40-135
1,2,4-Trichlorobenzene	64.2420	61.2267	95		2		0-40	65-130
1,2,3-Trichlorobenzene	64.2420	66.6019	104		3		0-40	60-135
1,1,2-Trichloro-1,2,2-trif	64.2420	54.7262	85		5		0-40	70-130
1,4-Dioxane	1284.8393	1414.7310	110		1		0-40	70-130
Cyclohexane	64.2420	53.5149	83		6		0-40	70-130
Methyl acetate	64.2420	73.3893	114		13		0-40	70-130
Methylcyclohexane	64.2420	52.0406	81		9		0-40	70-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 52 outside limits

Spike Recovery: 2 out of 104 outside limits

COMMENTS:

3 - FORM III
SOIL LABORATORY CONTROL
SAMPLE RECOVERY

CLIENT SAMPLE NO.
LCS-69922

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

Lab Sample ID: LCS-69922 LCS Lot No.:

Date Extracted: 12/26/2012 Date Analyzed (1): 12/26/2012

COMPOUND	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS %REC	#	QC. LIMITS REC.
Dichlorodifluoromethane	50.0000	0.0000	51.8573	104		35 - 135
Chloromethane	50.0000	0.0000	52.4628	105		50 - 130
Vinyl chloride	50.0000	0.0000	51.7874	104		60 - 125
Bromomethane	50.0000	0.0000	52.5112	105		30 - 160
Chloroethane	50.0000	0.0000	53.2934	107		40 - 155
Trichlorofluoromethane	50.0000	0.0000	53.1641	106		25 - 185
1,1-Dichloroethene	50.0000	0.0000	53.0619	106		65 - 135
Acetone	50.0000	0.0000	55.6706	111		20 - 160
Carbon disulfide	50.0000	0.0000	53.4356	107		45 - 160
Methylene chloride	50.0000	0.0000	45.9511	92		55 - 140
trans-1,2-Dichloroethene	50.0000	0.0000	51.5487	103		65 - 135
Methyl tert-butyl ether	50.0000	0.0000	46.5630	93		75 - 126
1,1-Dichloroethane	50.0000	0.0000	51.1021	102		75 - 125
2-Butanone	50.0000	0.0000	52.1583	104		30 - 160
cis-1,2-Dichloroethene	50.0000	0.0000	49.6745	99		65 - 125
Bromochloromethane	50.0000	0.0000	48.0219	96		70 - 125
Chloroform	50.0000	0.0000	49.5400	99		70 - 125
1,1,1-Trichloroethane	50.0000	0.0000	53.8149	108		70 - 135
Carbon tetrachloride	50.0000	0.0000	53.2860	107		65 - 135
1,2-Dichloroethane	50.0000	0.0000	48.5031	97		70 - 135
Benzene	50.0000	0.0000	50.4514	101		75 - 125
Trichloroethene	50.0000	0.0000	50.8862	102		75 - 125
1,2-Dichloropropane	50.0000	0.0000	49.4866	99		70 - 120
Bromodichloromethane	50.0000	0.0000	49.9756	100		70 - 130
cis-1,3-Dichloropropene	50.0000	0.0000	49.0923	98		70 - 125
4-Methyl-2-pentanone	50.0000	0.0000	48.9504	98		45 - 145
Toluene	50.0000	0.0000	51.3573	103		70 - 125
trans-1,3-Dichloropropene	50.0000	0.0000	48.9868	98		65 - 125
1,1,2-Trichloroethane	50.0000	0.0000	46.5973	93		60 - 125
Tetrachloroethene	50.0000	0.0000	49.8914	100		65 - 140
2-Hexanone	50.0000	0.0000	49.9442	100		45 - 145
Dibromochloromethane	50.0000	0.0000	50.4670	101		65 - 130
1,2-Dibromoethane	50.0000	0.0000	49.4185	99		70 - 125
Chlorobenzene	50.0000	0.0000	51.7396	103		75 - 125
Ethylbenzene	50.0000	0.0000	52.0167	104		75 - 125
m,p-Xylene	100.0000	0.0000	106.6631	107		80 - 125
o-Xylene	50.0000	0.0000	51.9819	104		75 - 125
Styrene	50.0000	0.0000	51.8377	104		75 - 125
Bromoform	50.0000	0.0000	50.0100	100		55 - 135
Isopropylbenzene	50.0000	0.0000	52.5782	105		75 - 130
1,1,2,2-Tetrachloroethane	50.0000	0.0000	50.7374	101		55 - 130
1,3-Dichlorobenzene	50.0000	0.0000	51.6288	103		70 - 125
1,4-Dichlorobenzene	50.0000	0.0000	50.9267	102		70 - 125
1,2-Dichlorobenzene	50.0000	0.0000	52.0422	104		75 - 120

3 - FORM III
SOIL LABORATORY CONTROL
SAMPLE RECOVERY

CLIENT SAMPLE NO.
LCS-69922

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

Lab Sample ID: LCS-69922 LCS Lot No.:

Date Extracted: 12/26/2012 Date Analyzed (1): 12/26/2012

COMPOUND	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS %REC	#	QC. LIMITS REC.
1,2-Dibromo-3-chloropropan	50.0000	0.0000	50.0579	100		40 - 135
1,2,4-Trichlorobenzene	50.0000	0.0000	51.0419	102		65 - 130
1,2,3-Trichlorobenzene	50.0000	0.0000	50.8838	102		60 - 135
1,1,2-Trichloro-1,2,2-trif	50.0000	0.0000	53.2953	107		70 - 130
1,4-Dioxane	1000.0000	0.0000	922.6960	92		70 - 130
Cyclohexane	50.0000	0.0000	50.8410	102		70 - 130
Methyl acetate	50.0000	0.0000	45.3460	91		70 - 130
Methylcyclohexane	50.0000	0.0000	52.9327	106		70 - 130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 0 out of 52 outside limits

COMMENTS:

3 - FORM III
SOIL LABORATORY CONTROL
SAMPLE RECOVERY

CLIENT SAMPLE NO.
LCS-69943

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

Lab Sample ID: LCS-69943 LCS Lot No.:

Date Extracted: 12/27/2012 Date Analyzed (1): 12/27/2012

COMPOUND	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS %REC	#	QC. LIMITS REC.
Dichlorodifluoromethane	50.0000	0.0000	47.2111	94		35 - 135
Chloromethane	50.0000	0.0000	50.4332	101		50 - 130
Vinyl chloride	50.0000	0.0000	50.8376	102		60 - 125
Bromomethane	50.0000	0.0000	51.2763	103		30 - 160
Chloroethane	50.0000	0.0000	51.9754	104		40 - 155
Trichlorofluoromethane	50.0000	0.0000	51.3902	103		25 - 185
1,1-Dichloroethene	50.0000	0.0000	50.8905	102		65 - 135
Acetone	50.0000	0.0000	43.6206	87		20 - 160
Carbon disulfide	50.0000	0.0000	50.1894	100		45 - 160
Methylene chloride	50.0000	0.0000	46.1528	92		55 - 140
trans-1,2-Dichloroethene	50.0000	0.0000	49.9897	100		65 - 135
Methyl tert-butyl ether	50.0000	0.0000	48.8601	98		75 - 126
1,1-Dichloroethane	50.0000	0.0000	50.0635	100		75 - 125
2-Butanone	50.0000	0.0000	50.9416	102		30 - 160
cis-1,2-Dichloroethene	50.0000	0.0000	49.4345	99		65 - 125
Bromochloromethane	50.0000	0.0000	47.9664	96		70 - 125
Chloroform	50.0000	0.0000	48.5253	97		70 - 125
1,1,1-Trichloroethane	50.0000	0.0000	53.3730	107		70 - 135
Carbon tetrachloride	50.0000	0.0000	52.7679	106		65 - 135
1,2-Dichloroethane	50.0000	0.0000	49.1451	98		70 - 135
Benzene	50.0000	0.0000	50.1541	100		75 - 125
Trichloroethene	50.0000	0.0000	51.4254	103		75 - 125
1,2-Dichloropropane	50.0000	0.0000	49.7329	99		70 - 120
Bromodichloromethane	50.0000	0.0000	49.7767	100		70 - 130
cis-1,3-Dichloropropene	50.0000	0.0000	50.1206	100		70 - 125
4-Methyl-2-pentanone	50.0000	0.0000	50.8170	102		45 - 145
Toluene	50.0000	0.0000	50.4563	101		70 - 125
trans-1,3-Dichloropropene	50.0000	0.0000	49.4312	99		65 - 125
1,1,2-Trichloroethane	50.0000	0.0000	49.5552	99		60 - 125
Tetrachloroethene	50.0000	0.0000	51.3134	103		65 - 140
2-Hexanone	50.0000	0.0000	51.4065	103		45 - 145
Dibromochloromethane	50.0000	0.0000	50.7014	101		65 - 130
1,2-Dibromoethane	50.0000	0.0000	50.0289	100		70 - 125
Chlorobenzene	50.0000	0.0000	50.9886	102		75 - 125
Ethylbenzene	50.0000	0.0000	53.3265	107		75 - 125
m,p-Xylene	100.0000	0.0000	103.4136	103		80 - 125
o-Xylene	50.0000	0.0000	51.9101	104		75 - 125
Styrene	50.0000	0.0000	51.3481	103		75 - 125
Bromoform	50.0000	0.0000	52.5291	105		55 - 135
Isopropylbenzene	50.0000	0.0000	53.4867	107		75 - 130
1,1,2,2-Tetrachloroethane	50.0000	0.0000	50.1957	100		55 - 130
1,3-Dichlorobenzene	50.0000	0.0000	51.0914	102		70 - 125
1,4-Dichlorobenzene	50.0000	0.0000	49.9466	100		70 - 125
1,2-Dichlorobenzene	50.0000	0.0000	49.3009	99		75 - 120

3 - FORM III
SOIL LABORATORY CONTROL
SAMPLE RECOVERY

CLIENT SAMPLE NO.
LCS-69943

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

Lab Sample ID: LCS-69943 LCS Lot No.:

Date Extracted: 12/27/2012 Date Analyzed (1): 12/27/2012

COMPOUND	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS %REC	#	QC. LIMITS REC.
1,2-Dibromo-3-chloropropan	50.0000	0.0000	51.7226	103		40 - 135
1,2,4-Trichlorobenzene	50.0000	0.0000	50.0966	100		65 - 130
1,2,3-Trichlorobenzene	50.0000	0.0000	50.3390	101		60 - 135
1,1,2-Trichloro-1,2,2-trif	50.0000	0.0000	45.9700	92		70 - 130
1,4-Dioxane	1000.0000	0.0000	898.6189	90		70 - 130
Cyclohexane	50.0000	0.0000	47.0163	94		70 - 130
Methyl acetate	50.0000	0.0000	45.2162	90		70 - 130
Methylcyclohexane	50.0000	0.0000	46.2320	92		70 - 130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 0 out of 52 outside limits

COMMENTS:

3 - FORM III
SOIL LABORATORY CONTROL
SAMPLE RECOVERY

CLIENT SAMPLE NO.
LCS-69963

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

Lab Sample ID: LCS-69963 LCS Lot No.:

Date Extracted: 12/28/2012 Date Analyzed (1): 12/28/2012

COMPOUND	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS %REC	#	QC. LIMITS REC.
Dichlorodifluoromethane	50.0000	0.0000	46.9347	94		35 - 135
Chloromethane	50.0000	0.0000	52.6897	105		50 - 130
Vinyl chloride	50.0000	0.0000	49.7819	100		60 - 125
Bromomethane	50.0000	0.0000	49.8450	100		30 - 160
Chloroethane	50.0000	0.0000	53.4400	107		40 - 155
Trichlorofluoromethane	50.0000	0.0000	52.6755	105		25 - 185
1,1-Dichloroethene	50.0000	0.0000	51.5376	103		65 - 135
Acetone	50.0000	0.0000	54.1581	108		20 - 160
Carbon disulfide	50.0000	0.0000	50.5806	101		45 - 160
Methylene chloride	50.0000	0.0000	50.5476	101		55 - 140
trans-1,2-Dichloroethene	50.0000	0.0000	50.4028	101		65 - 135
Methyl tert-butyl ether	50.0000	0.0000	55.1863	110		75 - 126
1,1-Dichloroethane	50.0000	0.0000	52.5973	105		75 - 125
2-Butanone	50.0000	0.0000	57.9565	116		30 - 160
cis-1,2-Dichloroethene	50.0000	0.0000	51.8460	104		65 - 125
Bromochloromethane	50.0000	0.0000	53.1265	106		70 - 125
Chloroform	50.0000	0.0000	51.5956	103		70 - 125
1,1,1-Trichloroethane	50.0000	0.0000	53.1162	106		70 - 135
Carbon tetrachloride	50.0000	0.0000	53.3549	107		65 - 135
1,2-Dichloroethane	50.0000	0.0000	54.9594	110		70 - 135
Benzene	50.0000	0.0000	52.3677	105		75 - 125
Trichloroethene	50.0000	0.0000	52.6425	105		75 - 125
1,2-Dichloropropane	50.0000	0.0000	52.8978	106		70 - 120
Bromodichloromethane	50.0000	0.0000	54.7810	110		70 - 130
cis-1,3-Dichloropropene	50.0000	0.0000	54.5640	109		70 - 125
4-Methyl-2-pentanone	50.0000	0.0000	58.9283	118		45 - 145
Toluene	50.0000	0.0000	52.3935	105		70 - 125
trans-1,3-Dichloropropene	50.0000	0.0000	54.0994	108		65 - 125
1,1,2-Trichloroethane	50.0000	0.0000	54.6788	109		60 - 125
Tetrachloroethene	50.0000	0.0000	51.8162	104		65 - 140
2-Hexanone	50.0000	0.0000	58.3381	117		45 - 145
Dibromochloromethane	50.0000	0.0000	54.4306	109		65 - 130
1,2-Dibromoethane	50.0000	0.0000	53.7691	108		70 - 125
Chlorobenzene	50.0000	0.0000	52.3632	105		75 - 125
Ethylbenzene	50.0000	0.0000	51.9785	104		75 - 125
m,p-Xylene	100.0000	0.0000	104.6965	105		80 - 125
o-Xylene	50.0000	0.0000	51.3974	103		75 - 125
Styrene	50.0000	0.0000	52.2462	104		75 - 125
Bromoform	50.0000	0.0000	54.7619	110		55 - 135
Isopropylbenzene	50.0000	0.0000	52.1439	104		75 - 130
1,1,2,2-Tetrachloroethane	50.0000	0.0000	53.8840	108		55 - 130
1,3-Dichlorobenzene	50.0000	0.0000	51.1692	102		70 - 125
1,4-Dichlorobenzene	50.0000	0.0000	52.2244	104		70 - 125
1,2-Dichlorobenzene	50.0000	0.0000	52.7970	106		75 - 120

3 - FORM III
SOIL LABORATORY CONTROL
SAMPLE RECOVERY

CLIENT SAMPLE NO.
LCS-69963

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

Lab Sample ID: LCS-69963 LCS Lot No.:

Date Extracted: 12/28/2012 Date Analyzed (1): 12/28/2012

COMPOUND	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS %REC	#	QC. LIMITS REC.
1,2-Dibromo-3-chloropropan	50.0000	0.0000	57.0214	114		40 - 135
1,2,4-Trichlorobenzene	50.0000	0.0000	53.3848	107		65 - 130
1,2,3-Trichlorobenzene	50.0000	0.0000	53.8008	108		60 - 135
1,1,2-Trichloro-1,2,2-trif	50.0000	0.0000	51.6358	103		70 - 130
1,4-Dioxane	1000.0000	0.0000	1064.0859	106		70 - 130
Cyclohexane	50.0000	0.0000	50.0211	100		70 - 130
Methyl acetate	50.0000	0.0000	55.4246	111		70 - 130
Methylcyclohexane	50.0000	0.0000	50.2299	100		70 - 130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 0 out of 52 outside limits

COMMENTS:

4A - FORM IV VOA

VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

MB-69922

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

Lab File ID: V5O1053.D Lab Sample ID: MB-69922

Instrument ID: V5

Matrix: (SOIL/SED/WATER) SOIL Date Analyzed: 12/26/2012

Level: (TRACE or LOW/MED) LOW Time Analyzed: 11:26

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	LCS-69922	LCS-69922	V5O1052.D	10:32
02	SB-15(5-6)	L2631-01C	V5O1059.D	14:05
03	SB-15(7-8)	L2631-02A	V5O1060.D	14:31
04	SB-16(5-6)	L2631-04A	V5O1062.D	15:24
05	SB-16(6-7)	L2631-05A	V5O1063.D	15:50
06	SB-17(1-2)	L2631-09A	V5O1067.D	17:36
07	SB-17(5-6)	L2631-10A	V5O1068.D	18:02
08	SB-17(6-7)	L2631-11A	V5O1069.D	18:29
09	SB-17(7-8)	L2631-12A	V5O1070.D	18:55
10	SB-17(8-9)	L2631-13C	V5O1071.D	19:21
11	SB-18(1-2)	L2631-14A	V5O1072.D	19:47
12	SB-18(6-7)	L2631-15C	V5O1073.D	20:13
13	SB-18(8-9)	L2631-16A	V5O1074.D	20:40
14	SB-15(5-6)MS	L2631-01CMS	V5O1075.D	21:06
15	SB-15(5-6)MSD	L2631-01CMSD	V5O1076.D	21:32

COMMENTS:

4A - FORM IV VOA

VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

MB-69943

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

Lab File ID: V5O1083.D Lab Sample ID: MB-69943

Instrument ID: V5

Matrix: (SOIL/SED/WATER) SOIL Date Analyzed: 12/27/2012

Level: (TRACE or LOW/MED) LOW Time Analyzed: 13:14

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	LCS-69943	LCS-69943	V5O1082.D	12:18
02	SB-18(11-12)	L2631-17A	V5O1084.D	13:42
03	SB-19(2-3)	L2631-18A	V5O1085.D	14:10
04	SB-19(7-8)	L2631-19C	V5O1086.D	14:38
05	SB-19(9-10)	L2631-20A	V5O1087.D	15:06
06	SB-15(9-10)	L2631-03A	V5O1092.D	17:21
07	SB-16(8-9)	L2631-06A	V5O1093.D	17:48
08	SB-16(9-10)	L2631-07C	V5O1094.D	18:15
09	SB-16(10-11)	L2631-08A	V5O1095.D	18:41
10	SB-18(11-12) MS	L2631-17AMS	V5O1096.D	19:08

COMMENTS:

4A - FORM IV VOA

VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

MB-69963

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

Lab File ID: V5O1123.D Lab Sample ID: MB-69963

Instrument ID: V5

Matrix: (SOIL/SED/WATER) SOIL Date Analyzed: 12/28/2012

Level: (TRACE or LOW/MED) LOW Time Analyzed: 18:28

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	LCS-69963	LCS-69963	V5O1122.D	17:36
02	SB-18(11-12) MSD	L2631-17AMSD	V5O1130.D	22:26

COMMENTS:

som12.12.17.A

8A - FORM VIII VOA

VOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

GC Column: DB-624 ID: 0.25 (mm) Init. Calib. Date(s): 12/19/2012 12/19/2012

EPA Sample No.(VSTD#####): VSTD0505G Date Analyzed: 12/26/2012

Lab File ID (Standard): V5O1051.D Time Analyzed: 10:05

Instrument ID: V5 Heated Purge: (Y/N) Y

		IS1 (S1) AREA	#	RT	#	IS2 (S2) AREA	#	RT	#	IS3 (S3) AREA	#	RT	#
	12 HOUR STD	975815		4.47		578955		7.665		233464		10.732	
	UPPER LIMIT	1951630		4.97		1157910		8.165		466928		11.232	
	LOWER LIMIT	487908		3.97		289478		7.165		116732		10.232	
	SAMPLE NO.												
01	LCS-69922	926468		4.466		569677		7.661		236297		10.727	
02	MB-69922	1111052		4.466		691702		7.660		283611		10.727	
03	SB-15(5-6)	1072021		4.462		673659		7.657		274696		10.724	
04	SB-15(7-8)	1073952		4.471		655504		7.666		270147		10.733	
05	SB-16(5-6)	1002536		4.466		591548		7.661		215747		10.728	
06	SB-16(6-7)	1009706		4.466		654575		7.660		263445		10.727	
07	SB-17(1-2)	880909		4.472		516251		7.667		189618		10.734	
08	SB-17(5-6)	847198		4.472		495167		7.667		172093		10.734	
09	SB-17(6-7)	994623		4.472		629834		7.667		251382		10.733	
10	SB-17(7-8)	1026957		4.466		623913		7.660		262431		10.727	
11	SB-17(8-9)	997576		4.472		611955		7.667		246020		10.734	
12	SB-18(1-2)	959573		4.472		577574		7.667		226033		10.733	
13	SB-18(6-7)	976536		4.466		605461		7.661		248559		10.727	
14	SB-18(8-9)	1077081		4.465		662858		7.660		261527		10.727	
15	SB-15(5-6)MS	896116		4.464		580538		7.659		242496		10.726	

IS1 () = Fluorobenzene
IS2 () = Chlorobenzene-d5
IS3 () = 1,4-Dichlorobenzene-d4
AREA UPPER LIMIT = 200% (Low-Medium Volatiles) and 140% (Trace Volatiles) of internal standard area
AREA LOWER LIMIT = 50% (Low-Medium Volatiles) and 60% (Trace Volatiles) of internal standard area
RT UPPER LIMIT = +0.50 (Low-Medium Volatiles) and +0.33 (Trace Volatiles) minutes of internal standard RT
RT LOWER LIMIT = -0.50 (Low-Medium Volatiles) and -0.33 (Trace Volatiles) minutes of internal standard RT

Column used to flag values outside contract required QC limits with an asterisk.

8A - FORM VIII VOA

VOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

GC Column: DB-624 ID: 0.25 (mm) Init. Calib. Date(s): 12/19/2012 12/19/2012

EPA Sample No.(VSTD#####): VSTD0505G Date Analyzed: 12/26/2012

Lab File ID (Standard): V5O1051.D Time Analyzed: 10:05

Instrument ID: V5 Heated Purge: (Y/N) Y

		IS1 (S1) AREA	#	RT	#	IS2 (S2) AREA	#	RT	#	IS3 (S3) AREA	#	RT	#
	12 HOUR STD	975815		4.47		578955		7.665		233464		10.732	
	UPPER LIMIT	1951630		4.97		1157910		8.165		466928		11.232	
	LOWER LIMIT	487908		3.97		289478		7.165		116732		10.232	
	SAMPLE NO.												
16	SB-15(5-6)MSD	910770		4.477		584317		7.660		250356		10.727	

IS1 () = Fluorobenzene
IS2 () = Chlorobenzene-d5
IS3 () = 1,4-Dichlorobenzene-d4
AREA UPPER LIMIT = 200% (Low-Medium Volatiles) and 140% (Trace Volatiles) of internal standard area
AREA LOWER LIMIT = 50% (Low-Medium Volatiles) and 60% (Trace Volatiles) of internal standard area
RT UPPER LIMIT = +0.50 (Low-Medium Volatiles) and +0.33 (Trace Volatiles) minutes of internal standard RT
RT LOWER LIMIT = -0.50 (Low-Medium Volatiles) and -0.33 (Trace Volatiles) minutes of internal standard RT

Column used to flag values outside contract required QC limits with an asterisk.

8A - FORM VIII VOA

VOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

GC Column: DB-624 ID: 0.25 (mm) Init. Calib. Date(s): 12/19/2012 12/19/2012

EPA Sample No.(VSTD#####): VSTD0505H Date Analyzed: 12/27/2012

Lab File ID (Standard): V5O1081.D Time Analyzed: 11:51

Instrument ID: V5 Heated Purge: (Y/N) Y

		IS1 (S1) AREA	#	RT	#	IS2 (S2) AREA	#	RT	#	IS3 (S3) AREA	#	RT	#
	12 HOUR STD	917613		4.472		568702		7.666		236408		10.733	
	UPPER LIMIT	1835226		4.972		1137404		8.166		472816		11.233	
	LOWER LIMIT	458807		3.972		284351		7.166		118204		10.233	
	SAMPLE NO.												
01	LCS-69943	857430		4.471		534800		7.666		226182		10.732	
02	MB-69943	922087		4.474		582361		7.669		246759		10.724	
03	SB-18(11-12)	1038134		4.473		663243		7.668		280790		10.735	
04	SB-19(2-3)	991334		4.476		602346		7.659		234224		10.725	
05	SB-19(7-8)	1014783		4.465		643106		7.660		273598		10.727	
06	SB-19(9-10)	918344		4.474		580464		7.669		248118		10.724	
07	SB-15(9-10)	1003226		4.477		644227		7.660		267321		10.727	
08	SB-16(8-9)	791585		4.458		499260		7.664		210146		10.730	
09	SB-16(9-10)	894862		4.450		567716		7.656		244318		10.723	
10	SB-16(10-11)	900090		4.464		581690		7.658		241446		10.725	
11	SB-18(11-12) MS	777688		4.466		508075		7.660		207309		10.727	

IS1 () = Fluorobenzene
IS2 () = Chlorobenzene-d5
IS3 () = 1,4-Dichlorobenzene-d4
AREA UPPER LIMIT = 200% (Low-Medium Volatiles) and 140% (Trace Volatiles) of internal standard area
AREA LOWER LIMIT = 50% (Low-Medium Volatiles) and 60% (Trace Volatiles) of internal standard area
RT UPPER LIMIT = +0.50 (Low-Medium Volatiles) and +0.33 (Trace Volatiles) minutes of internal standard RT
RT LOWER LIMIT = -0.50 (Low-Medium Volatiles) and -0.33 (Trace Volatiles) minutes of internal standard RT

Column used to flag values outside contract required QC limits with an asterisk.

8A - FORM VIII VOA

VOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

GC Column: DB-624 ID: 0.25 (mm) Init. Calib. Date(s): 12/19/2012 12/19/2012

EPA Sample No.(VSTD#####): VSTD0505J Date Analyzed: 12/28/2012

Lab File ID (Standard): V5O1121.D Time Analyzed: 17:09

Instrument ID: V5 Heated Purge: (Y/N) Y

		IS1 (S1) AREA	#	RT	#	IS2 (S2) AREA	#	RT	#	IS3 (S3) AREA	#	RT	#
	12 HOUR STD	798545		4.472		511340		7.666		212189		10.733	
	UPPER LIMIT	1597090		4.972		1022680		8.166		424378		11.233	
	LOWER LIMIT	399273		3.972		255670		7.166		106095		10.233	
	SAMPLE NO.												
01	LCS-69963	783930		4.472		507800		7.667		217308		10.733	
02	MB-69963	965740		4.472		607913		7.666		249143		10.733	
03	SB-18(11-12) MSD	733583		4.466		476626		7.660		188705		10.727	

IS1 () = Fluorobenzene
IS2 () = Chlorobenzene-d5
IS3 () = 1,4-Dichlorobenzene-d4
AREA UPPER LIMIT = 200% (Low-Medium Volatiles) and 140% (Trace Volatiles) of internal standard area
AREA LOWER LIMIT = 50% (Low-Medium Volatiles) and 60% (Trace Volatiles) of internal standard area
RT UPPER LIMIT = +0.50 (Low-Medium Volatiles) and +0.33 (Trace Volatiles) minutes of internal standard RT
RT LOWER LIMIT = -0.50 (Low-Medium Volatiles) and -0.33 (Trace Volatiles) minutes of internal standard RT

Column used to flag values outside contract required QC limits with an asterisk.

* Semivolatile Organics *

REPORT NARRATIVE

Spectrum Analytical, Inc. Featuring Hanibal Technology, RI Division.

Client : ARCADIS U.S., Inc.

Project: S&S Dry Cleaners & Dyers

Laboratory Workorder / SDG #: L2631

SW846 8270D, SVOA by GC-MS

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code: SW846 8270D

IV. PREPARATION

Soil Samples were prepared following procedures in laboratory test code: SW3550

V. INSTRUMENTATION

The following instrumentation was used

Instrument Code: S6
Instrument Type: GCMS-Semi
Description: HP7890A
Manufacturer: Agilent
Model: 7890A/5973

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

Surrogate standard percent recoveries were within the QC limits.

D. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits.

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

Matrix spikes were performed on samples: SB-15(5-6) (L2631-01AMS) and SB-15(5-6) (L2631-01AMSD).

Percent recoveries were within the QC limits.

Replicate RPDs were within the advisory QC limits.

E. Internal Standards:

Internal standard peak areas were within the QC limits.

F. Dilutions:

No sample in this SDG required analysis at dilution.

G. Samples:

No other unusual occurrences were noted during sample analysis.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Signed:_____ _____

Date:_____1/7/2013_____

Data Flag/Qualifiers:

U Not Detected. This compound was analyzed-for but not detected. For most analyses the reporting limit (lowest standard concentration) is the value listed. For Department of Defense programs, this is the Limit of Detection (LOD).

J This flag indicates an estimated value due to either
- the compound was detected below the reporting limit, or
- estimated concentration for Tentatively Identified Compound

B This flag indicates the compound was also detected in the associated Method Blank. The B flag has an alternative meaning for Inorganics analyses reported using CLP ILM-type metals forms, indicating a "trace" concentration below the reporting limit and equal to or above the detection limit.

D For Organics analysis, this flag indicates the compound concentration was obtained from a secondary dilution analysis

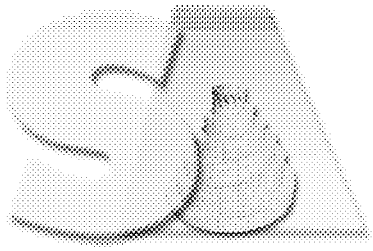
E This flag indicates the compound concentration exceeded the Calibration Range. The E flag has an alternative meaning for Inorganics analyses reported using CLP metals forms, indicating an estimated concentration due to the presence of interferences, as determined by the serial dilution analysis.

P This flag is used for pesticides/PCB/herbicide compound when there is a greater than 40% difference for detected concentration between the two GC columns used for primary and confirmation analyses. This difference typically indicates an interference, causing one value to be unusually high. The **lower** of the two values is generally reported on the Form 1, and both values reported on the Form 10.

A Used to flag semivolatile organic Tentatively Identified Compound library search results for compounds identified as aldol condensation byproducts.

N Used to flag results for volatile and semivolatile Organics analysis Tentatively Identified Compounds where an analyte has passed the identification criteria, and is considered to be positively identified. For Inorganics analysis the N flag indicates the matrix spike recovery falls outside of the control limit.

* For Inorganics analysis the * flag indicates Relative Percent Difference for duplicate analyses is outside of the control limit.



Sample ID Suffixes

DL Diluted analysis. The sample was diluted and reanalyzed. The DL may be followed by a digit if more than one diluted reanalysis is provided. The DL suffix is not attached to an analysis initially performed at dilution, only to reanalyses performed at dilution

RE Reanalysis. Appended to the client sample ID to indicate a reextraction and reanalysis or a reanalysis of the original sample extract.

RA Reanalysis. Appended to the laboratory sample ID indicates a reanalysis of the original sample extract.

RX Reextraction. Appended to the laboratory sample ID indicates a reextraction of the sample.

MS Matrix Spike.

MSD Matrix Spike Duplicate

DUP Duplicate analysis

SD Serial Dilution

PS Post-digestion or Post-distillation spike. For metals or inorganic analyses

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-15(5-6)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L2631-01A

Sample wt/vol: 15.2 (g/mL) G Lab File ID: S6B2194.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 27 Decanted: (Y/N) N Date Received: 12/21/2012

Concentrated Extract Volume: 1000 (uL) Date Extracted: 12/28/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 12/28/2012

GPC Cleanup:(Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	450	U
111-44-4	Bis(2-chloroethyl)ether	450	U
95-57-8	2-Chlorophenol	450	U
95-48-7	2-Methylphenol	450	U
108-60-1	2,2´-oxybis(1-Chloropropane)	450	U
106-44-5	4-Methylphenol	450	U
621-64-7	N-Nitroso-di-n-propylamine	450	U
67-72-1	Hexachloroethane	450	U
98-95-3	Nitrobenzene	450	U
78-59-1	Isophorone	450	U
88-75-5	2-Nitrophenol	450	U
105-67-9	2,4-Dimethylphenol	450	U
120-83-2	2,4-Dichlorophenol	450	U
91-20-3	Naphthalene	450	U
106-47-8	4-Chloroaniline	450	U
111-91-1	Bis(2-chloroethoxy)methane	450	U
87-68-3	Hexachlorobutadiene	450	U
59-50-7	4-Chloro-3-methylphenol	450	U
91-57-6	2-Methylnaphthalene	450	U
77-47-4	Hexachlorocyclopentadiene	450	U
88-06-2	2,4,6-Trichlorophenol	450	U
95-95-4	2,4,5-Trichlorophenol	910	U
91-58-7	2-Chloronaphthalene	450	U
88-74-4	2-Nitroaniline	910	U
131-11-3	Dimethylphthalate	450	U
208-96-8	Acenaphthylene	450	U
606-20-2	2,6-Dinitrotoluene	450	U
99-09-2	3-Nitroaniline	910	U
83-32-9	Acenaphthene	450	U
51-28-5	2,4-Dinitrophenol	910	U
100-02-7	4-Nitrophenol	910	U
132-64-9	Dibenzofuran	450	U
121-14-2	2,4-Dinitrotoluene	450	U
84-66-2	Diethylphthalate	450	U
7005-72-3	4-Chlorophenyl-phenylether	450	U
86-73-7	Fluorene	450	U

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-15(5-6)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L2631-01A

Sample wt/vol: 15.2 (g/mL) G Lab File ID: S6B2194.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 27 Decanted: (Y/N) N Date Received: 12/21/2012

Concentrated Extract Volume: 1000 (uL) Date Extracted: 12/28/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 12/28/2012

GPC Cleanup:(Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-01-6	4-Nitroaniline	910	U
534-52-1	4,6-Dinitro-2-methylphenol	910	U
86-30-6	N-Nitrosodiphenylamine	450	U
101-55-3	4-Bromophenyl-phenylether	450	U
118-74-1	Hexachlorobenzene	450	U
87-86-5	Pentachlorophenol	910	U
85-01-8	Phenanthrene	450	U
120-12-7	Anthracene	450	U
86-74-8	Carbazole	450	U
84-74-2	Di-n-butylphthalate	430	J
206-44-0	Fluoranthene	450	U
129-00-0	Pyrene	450	U
85-68-7	Butylbenzylphthalate	450	U
91-94-1	3,3´-Dichlorobenzidine	450	U
56-55-3	Benzo(a)anthracene	450	U
218-01-9	Chrysene	450	U
117-81-7	Bis(2-ethylhexyl)phthalate	360	J
117-84-0	Di-n-octylphthalate	450	U
205-99-2	Benzo(b)fluoranthene	450	U
207-08-9	Benzo(k)fluoranthene	450	U
50-32-8	Benzo(a)pyrene	450	U
193-39-5	Indeno(1,2,3-cd)pyrene	450	U
53-70-3	Dibenzo(a,h)anthracene	450	U
191-24-2	Benzo(g,h,i)perylene	450	U
92-52-4	1,1´-Biphenyl	450	U
95-94-3	1,2,4,5-Tetrachlorobenzene	450	U
58-90-2	2,3,4,6-Tetrachlorophenol	450	U
98-86-2	Acetophenone	450	U
1912-24-9	Atrazine	450	U
100-52-7	Benzaldehyde	450	U
105-60-2	Caprolactam	450	U

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-16(9-10)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L2631-07A

Sample wt/vol: 15.5 (g/mL) G Lab File ID: S6B2197.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 21 Decanted: (Y/N) N Date Received: 12/21/2012

Concentrated Extract Volume: 1000 (uL) Date Extracted: 12/28/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 12/28/2012

GPC Cleanup:(Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	400	U
111-44-4	Bis(2-chloroethyl)ether	400	U
95-57-8	2-Chlorophenol	400	U
95-48-7	2-Methylphenol	400	U
108-60-1	2,2´-oxybis(1-Chloropropane)	400	U
106-44-5	4-Methylphenol	400	U
621-64-7	N-Nitroso-di-n-propylamine	400	U
67-72-1	Hexachloroethane	400	U
98-95-3	Nitrobenzene	400	U
78-59-1	Isophorone	400	U
88-75-5	2-Nitrophenol	400	U
105-67-9	2,4-Dimethylphenol	400	U
120-83-2	2,4-Dichlorophenol	400	U
91-20-3	Naphthalene	400	U
106-47-8	4-Chloroaniline	400	U
111-91-1	Bis(2-chloroethoxy)methane	400	U
87-68-3	Hexachlorobutadiene	400	U
59-50-7	4-Chloro-3-methylphenol	400	U
91-57-6	2-Methylnaphthalene	400	U
77-47-4	Hexachlorocyclopentadiene	400	U
88-06-2	2,4,6-Trichlorophenol	400	U
95-95-4	2,4,5-Trichlorophenol	820	U
91-58-7	2-Chloronaphthalene	400	U
88-74-4	2-Nitroaniline	820	U
131-11-3	Dimethylphthalate	400	U
208-96-8	Acenaphthylene	400	U
606-20-2	2,6-Dinitrotoluene	400	U
99-09-2	3-Nitroaniline	820	U
83-32-9	Acenaphthene	400	U
51-28-5	2,4-Dinitrophenol	820	U
100-02-7	4-Nitrophenol	820	U
132-64-9	Dibenzofuran	400	U
121-14-2	2,4-Dinitrotoluene	400	U
84-66-2	Diethylphthalate	400	U
7005-72-3	4-Chlorophenyl-phenylether	400	U
86-73-7	Fluorene	400	U

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-16(9-10)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L2631-07A

Sample wt/vol: 15.5 (g/mL) G Lab File ID: S6B2197.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 21 Decanted: (Y/N) N Date Received: 12/21/2012

Concentrated Extract Volume: 1000 (uL) Date Extracted: 12/28/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 12/28/2012

GPC Cleanup:(Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-01-6	4-Nitroaniline	820	U
534-52-1	4,6-Dinitro-2-methylphenol	820	U
86-30-6	N-Nitrosodiphenylamine	400	U
101-55-3	4-Bromophenyl-phenylether	400	U
118-74-1	Hexachlorobenzene	400	U
87-86-5	Pentachlorophenol	820	U
85-01-8	Phenanthrene	400	U
120-12-7	Anthracene	400	U
86-74-8	Carbazole	400	U
84-74-2	Di-n-butylphthalate	450	
206-44-0	Fluoranthene	400	U
129-00-0	Pyrene	400	U
85-68-7	Butylbenzylphthalate	400	U
91-94-1	3,3´-Dichlorobenzidine	400	U
56-55-3	Benzo(a)anthracene	400	U
218-01-9	Chrysene	400	U
117-81-7	Bis(2-ethylhexyl)phthalate	400	U
117-84-0	Di-n-octylphthalate	400	U
205-99-2	Benzo(b)fluoranthene	400	U
207-08-9	Benzo(k)fluoranthene	400	U
50-32-8	Benzo(a)pyrene	400	U
193-39-5	Indeno(1,2,3-cd)pyrene	400	U
53-70-3	Dibenzo(a,h)anthracene	400	U
191-24-2	Benzo(g,h,i)perylene	400	U
92-52-4	1,1´-Biphenyl	400	U
95-94-3	1,2,4,5-Tetrachlorobenzene	400	U
58-90-2	2,3,4,6-Tetrachlorophenol	400	U
98-86-2	Acetophenone	400	U
1912-24-9	Atrazine	400	U
100-52-7	Benzaldehyde	400	U
105-60-2	Caprolactam	400	U

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-17(8-9)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L2631-13A

Sample wt/vol: 15.4 (g/mL) G Lab File ID: S6B2198.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 19 Decanted: (Y/N) N Date Received: 12/21/2012

Concentrated Extract Volume: 1000 (uL) Date Extracted: 12/28/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 12/28/2012

GPC Cleanup:(Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	400	U
111-44-4	Bis(2-chloroethyl)ether	400	U
95-57-8	2-Chlorophenol	400	U
95-48-7	2-Methylphenol	400	U
108-60-1	2,2´-oxybis(1-Chloropropane)	400	U
106-44-5	4-Methylphenol	400	U
621-64-7	N-Nitroso-di-n-propylamine	400	U
67-72-1	Hexachloroethane	400	U
98-95-3	Nitrobenzene	400	U
78-59-1	Isophorone	400	U
88-75-5	2-Nitrophenol	400	U
105-67-9	2,4-Dimethylphenol	400	U
120-83-2	2,4-Dichlorophenol	400	U
91-20-3	Naphthalene	400	U
106-47-8	4-Chloroaniline	400	U
111-91-1	Bis(2-chloroethoxy)methane	400	U
87-68-3	Hexachlorobutadiene	400	U
59-50-7	4-Chloro-3-methylphenol	400	U
91-57-6	2-Methylnaphthalene	400	U
77-47-4	Hexachlorocyclopentadiene	400	U
88-06-2	2,4,6-Trichlorophenol	400	U
95-95-4	2,4,5-Trichlorophenol	810	U
91-58-7	2-Chloronaphthalene	400	U
88-74-4	2-Nitroaniline	810	U
131-11-3	Dimethylphthalate	400	U
208-96-8	Acenaphthylene	400	U
606-20-2	2,6-Dinitrotoluene	400	U
99-09-2	3-Nitroaniline	810	U
83-32-9	Acenaphthene	400	U
51-28-5	2,4-Dinitrophenol	810	U
100-02-7	4-Nitrophenol	810	U
132-64-9	Dibenzofuran	400	U
121-14-2	2,4-Dinitrotoluene	400	U
84-66-2	Diethylphthalate	400	U
7005-72-3	4-Chlorophenyl-phenylether	400	U
86-73-7	Fluorene	400	U

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-17(8-9)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L2631-13A

Sample wt/vol: 15.4 (g/mL) G Lab File ID: S6B2198.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 19 Decanted: (Y/N) N Date Received: 12/21/2012

Concentrated Extract Volume: 1000 (uL) Date Extracted: 12/28/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 12/28/2012

GPC Cleanup:(Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-01-6	4-Nitroaniline	810	U
534-52-1	4,6-Dinitro-2-methylphenol	810	U
86-30-6	N-Nitrosodiphenylamine	400	U
101-55-3	4-Bromophenyl-phenylether	400	U
118-74-1	Hexachlorobenzene	400	U
87-86-5	Pentachlorophenol	810	U
85-01-8	Phenanthrene	400	U
120-12-7	Anthracene	400	U
86-74-8	Carbazole	400	U
84-74-2	Di-n-butylphthalate	370	J
206-44-0	Fluoranthene	400	U
129-00-0	Pyrene	400	U
85-68-7	Butylbenzylphthalate	400	U
91-94-1	3,3´-Dichlorobenzidine	400	U
56-55-3	Benzo(a)anthracene	400	U
218-01-9	Chrysene	400	U
117-81-7	Bis(2-ethylhexyl)phthalate	110	J
117-84-0	Di-n-octylphthalate	400	U
205-99-2	Benzo(b)fluoranthene	400	U
207-08-9	Benzo(k)fluoranthene	400	U
50-32-8	Benzo(a)pyrene	400	U
193-39-5	Indeno(1,2,3-cd)pyrene	400	U
53-70-3	Dibenzo(a,h)anthracene	400	U
191-24-2	Benzo(g,h,i)perylene	400	U
92-52-4	1,1´-Biphenyl	400	U
95-94-3	1,2,4,5-Tetrachlorobenzene	400	U
58-90-2	2,3,4,6-Tetrachlorophenol	400	U
98-86-2	Acetophenone	400	U
1912-24-9	Atrazine	400	U
100-52-7	Benzaldehyde	400	U
105-60-2	Caprolactam	400	U

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-18(6-7)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L2631-15A

Sample wt/vol: 15.0 (g/mL) G Lab File ID: S6B2199.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 27 Decanted: (Y/N) N Date Received: 12/21/2012

Concentrated Extract Volume: 1000 (uL) Date Extracted: 12/28/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 12/28/2012

GPC Cleanup:(Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	450	U
111-44-4	Bis(2-chloroethyl)ether	450	U
95-57-8	2-Chlorophenol	450	U
95-48-7	2-Methylphenol	450	U
108-60-1	2,2´-oxybis(1-Chloropropane)	450	U
106-44-5	4-Methylphenol	450	U
621-64-7	N-Nitroso-di-n-propylamine	450	U
67-72-1	Hexachloroethane	450	U
98-95-3	Nitrobenzene	450	U
78-59-1	Isophorone	450	U
88-75-5	2-Nitrophenol	450	U
105-67-9	2,4-Dimethylphenol	450	U
120-83-2	2,4-Dichlorophenol	450	U
91-20-3	Naphthalene	450	U
106-47-8	4-Chloroaniline	450	U
111-91-1	Bis(2-chloroethoxy)methane	450	U
87-68-3	Hexachlorobutadiene	450	U
59-50-7	4-Chloro-3-methylphenol	450	U
91-57-6	2-Methylnaphthalene	450	U
77-47-4	Hexachlorocyclopentadiene	450	U
88-06-2	2,4,6-Trichlorophenol	450	U
95-95-4	2,4,5-Trichlorophenol	920	U
91-58-7	2-Chloronaphthalene	450	U
88-74-4	2-Nitroaniline	920	U
131-11-3	Dimethylphthalate	450	U
208-96-8	Acenaphthylene	450	U
606-20-2	2,6-Dinitrotoluene	450	U
99-09-2	3-Nitroaniline	920	U
83-32-9	Acenaphthene	450	U
51-28-5	2,4-Dinitrophenol	920	U
100-02-7	4-Nitrophenol	920	U
132-64-9	Dibenzofuran	450	U
121-14-2	2,4-Dinitrotoluene	450	U
84-66-2	Diethylphthalate	450	U
7005-72-3	4-Chlorophenyl-phenylether	450	U
86-73-7	Fluorene	450	U

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-18(6-7)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L2631-15A

Sample wt/vol: 15.0 (g/mL) G Lab File ID: S6B2199.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 27 Decanted: (Y/N) N Date Received: 12/21/2012

Concentrated Extract Volume: 1000 (uL) Date Extracted: 12/28/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 12/28/2012

GPC Cleanup:(Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-01-6	4-Nitroaniline	920	U
534-52-1	4,6-Dinitro-2-methylphenol	920	U
86-30-6	N-Nitrosodiphenylamine	450	U
101-55-3	4-Bromophenyl-phenylether	450	U
118-74-1	Hexachlorobenzene	450	U
87-86-5	Pentachlorophenol	920	U
85-01-8	Phenanthrene	450	U
120-12-7	Anthracene	450	U
86-74-8	Carbazole	450	U
84-74-2	Di-n-butylphthalate	510	
206-44-0	Fluoranthene	450	U
129-00-0	Pyrene	450	U
85-68-7	Butylbenzylphthalate	450	U
91-94-1	3,3´-Dichlorobenzidine	450	U
56-55-3	Benzo(a)anthracene	450	U
218-01-9	Chrysene	450	U
117-81-7	Bis(2-ethylhexyl)phthalate	450	U
117-84-0	Di-n-octylphthalate	450	U
205-99-2	Benzo(b)fluoranthene	450	U
207-08-9	Benzo(k)fluoranthene	450	U
50-32-8	Benzo(a)pyrene	450	U
193-39-5	Indeno(1,2,3-cd)pyrene	450	U
53-70-3	Dibenzo(a,h)anthracene	450	U
191-24-2	Benzo(g,h,i)perylene	450	U
92-52-4	1,1´-Biphenyl	450	U
95-94-3	1,2,4,5-Tetrachlorobenzene	450	U
58-90-2	2,3,4,6-Tetrachlorophenol	450	U
98-86-2	Acetophenone	450	U
1912-24-9	Atrazine	450	U
100-52-7	Benzaldehyde	450	U
105-60-2	Caprolactam	450	U

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-19(7-8)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L2631-19A

Sample wt/vol: 15.3 (g/mL) G Lab File ID: S6B2200.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 22 Decanted: (Y/N) N Date Received: 12/21/2012

Concentrated Extract Volume: 1000 (uL) Date Extracted: 12/28/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 12/28/2012

GPC Cleanup:(Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	410	U
111-44-4	Bis(2-chloroethyl)ether	410	U
95-57-8	2-Chlorophenol	410	U
95-48-7	2-Methylphenol	410	U
108-60-1	2,2´-oxybis(1-Chloropropane)	410	U
106-44-5	4-Methylphenol	410	U
621-64-7	N-Nitroso-di-n-propylamine	410	U
67-72-1	Hexachloroethane	410	U
98-95-3	Nitrobenzene	410	U
78-59-1	Isophorone	410	U
88-75-5	2-Nitrophenol	410	U
105-67-9	2,4-Dimethylphenol	410	U
120-83-2	2,4-Dichlorophenol	410	U
91-20-3	Naphthalene	410	U
106-47-8	4-Chloroaniline	410	U
111-91-1	Bis(2-chloroethoxy)methane	410	U
87-68-3	Hexachlorobutadiene	410	U
59-50-7	4-Chloro-3-methylphenol	410	U
91-57-6	2-Methylnaphthalene	410	U
77-47-4	Hexachlorocyclopentadiene	410	U
88-06-2	2,4,6-Trichlorophenol	410	U
95-95-4	2,4,5-Trichlorophenol	840	U
91-58-7	2-Chloronaphthalene	410	U
88-74-4	2-Nitroaniline	840	U
131-11-3	Dimethylphthalate	410	U
208-96-8	Acenaphthylene	410	U
606-20-2	2,6-Dinitrotoluene	410	U
99-09-2	3-Nitroaniline	840	U
83-32-9	Acenaphthene	410	U
51-28-5	2,4-Dinitrophenol	840	U
100-02-7	4-Nitrophenol	840	U
132-64-9	Dibenzofuran	410	U
121-14-2	2,4-Dinitrotoluene	410	U
84-66-2	Diethylphthalate	410	U
7005-72-3	4-Chlorophenyl-phenylether	410	U
86-73-7	Fluorene	410	U

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-19(7-8)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L2631-19A

Sample wt/vol: 15.3 (g/mL) G Lab File ID: S6B2200.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 22 Decanted: (Y/N) N Date Received: 12/21/2012

Concentrated Extract Volume: 1000 (uL) Date Extracted: 12/28/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 12/28/2012

GPC Cleanup:(Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-01-6	4-Nitroaniline	840	U
534-52-1	4,6-Dinitro-2-methylphenol	840	U
86-30-6	N-Nitrosodiphenylamine	410	U
101-55-3	4-Bromophenyl-phenylether	410	U
118-74-1	Hexachlorobenzene	410	U
87-86-5	Pentachlorophenol	840	U
85-01-8	Phenanthrene	410	U
120-12-7	Anthracene	410	U
86-74-8	Carbazole	410	U
84-74-2	Di-n-butylphthalate	380	J
206-44-0	Fluoranthene	410	U
129-00-0	Pyrene	410	U
85-68-7	Butylbenzylphthalate	410	U
91-94-1	3,3´-Dichlorobenzidine	410	U
56-55-3	Benzo(a)anthracene	410	U
218-01-9	Chrysene	410	U
117-81-7	Bis(2-ethylhexyl)phthalate	120	J
117-84-0	Di-n-octylphthalate	410	U
205-99-2	Benzo(b)fluoranthene	410	U
207-08-9	Benzo(k)fluoranthene	410	U
50-32-8	Benzo(a)pyrene	410	U
193-39-5	Indeno(1,2,3-cd)pyrene	410	U
53-70-3	Dibenzo(a,h)anthracene	410	U
191-24-2	Benzo(g,h,i)perylene	410	U
92-52-4	1,1´-Biphenyl	410	U
95-94-3	1,2,4,5-Tetrachlorobenzene	410	U
58-90-2	2,3,4,6-Tetrachlorophenol	410	U
98-86-2	Acetophenone	410	U
1912-24-9	Atrazine	410	U
100-52-7	Benzaldehyde	410	U
105-60-2	Caprolactam	410	U

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MB-69951

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: MB-69951

Sample wt/vol: 15.0 (g/mL) G Lab File ID: S6B2192.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: Decanted: (Y/N) Date Received:

Concentrated Extract Volume: 1000 (uL) Date Extracted: 12/28/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 12/28/2012

GPC Cleanup:(Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	330	U
111-44-4	Bis(2-chloroethyl)ether	330	U
95-57-8	2-Chlorophenol	330	U
95-48-7	2-Methylphenol	330	U
108-60-1	2,2´-oxybis(1-Chloropropane)	330	U
106-44-5	4-Methylphenol	330	U
621-64-7	N-Nitroso-di-n-propylamine	330	U
67-72-1	Hexachloroethane	330	U
98-95-3	Nitrobenzene	330	U
78-59-1	Isophorone	330	U
88-75-5	2-Nitrophenol	330	U
105-67-9	2,4-Dimethylphenol	330	U
120-83-2	2,4-Dichlorophenol	330	U
91-20-3	Naphthalene	330	U
106-47-8	4-Chloroaniline	330	U
111-91-1	Bis(2-chloroethoxy)methane	330	U
87-68-3	Hexachlorobutadiene	330	U
59-50-7	4-Chloro-3-methylphenol	330	U
91-57-6	2-Methylnaphthalene	330	U
77-47-4	Hexachlorocyclopentadiene	330	U
88-06-2	2,4,6-Trichlorophenol	330	U
95-95-4	2,4,5-Trichlorophenol	670	U
91-58-7	2-Chloronaphthalene	330	U
88-74-4	2-Nitroaniline	670	U
131-11-3	Dimethylphthalate	330	U
208-96-8	Acenaphthylene	330	U
606-20-2	2,6-Dinitrotoluene	330	U
99-09-2	3-Nitroaniline	670	U
83-32-9	Acenaphthene	330	U
51-28-5	2,4-Dinitrophenol	670	U
100-02-7	4-Nitrophenol	670	U
132-64-9	Dibenzofuran	330	U
121-14-2	2,4-Dinitrotoluene	330	U
84-66-2	Diethylphthalate	330	U
7005-72-3	4-Chlorophenyl-phenylether	330	U
86-73-7	Fluorene	330	U

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MB-69951

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: MB-69951

Sample wt/vol: 15.0 (g/mL) G Lab File ID: S6B2192.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: Decanted: (Y/N) Date Received:

Concentrated Extract Volume: 1000 (uL) Date Extracted: 12/28/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 12/28/2012

GPC Cleanup:(Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-01-6	4-Nitroaniline	670	U
534-52-1	4,6-Dinitro-2-methylphenol	670	U
86-30-6	N-Nitrosodiphenylamine	330	U
101-55-3	4-Bromophenyl-phenylether	330	U
118-74-1	Hexachlorobenzene	330	U
87-86-5	Pentachlorophenol	670	U
85-01-8	Phenanthrene	330	U
120-12-7	Anthracene	330	U
86-74-8	Carbazole	330	U
84-74-2	Di-n-butylphthalate	330	U
206-44-0	Fluoranthene	330	U
129-00-0	Pyrene	330	U
85-68-7	Butylbenzylphthalate	330	U
91-94-1	3,3´-Dichlorobenzidine	330	U
56-55-3	Benzo(a)anthracene	330	U
218-01-9	Chrysene	330	U
117-81-7	Bis(2-ethylhexyl)phthalate	330	U
117-84-0	Di-n-octylphthalate	330	U
205-99-2	Benzo(b)fluoranthene	330	U
207-08-9	Benzo(k)fluoranthene	330	U
50-32-8	Benzo(a)pyrene	330	U
193-39-5	Indeno(1,2,3-cd)pyrene	330	U
53-70-3	Dibenzo(a,h)anthracene	330	U
191-24-2	Benzo(g,h,i)perylene	330	U
92-52-4	1,1´-Biphenyl	330	U
95-94-3	1,2,4,5-Tetrachlorobenzene	330	U
58-90-2	2,3,4,6-Tetrachlorophenol	330	U
98-86-2	Acetophenone	330	U
1912-24-9	Atrazine	330	U
100-52-7	Benzaldehyde	330	U
105-60-2	Caprolactam	330	U

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCS-69951

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: LCS-69951

Sample wt/vol: 15.0 (g/mL) G Lab File ID: S6B2193.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: Decanted: (Y/N) Date Received:

Concentrated Extract Volume: 1000 (uL) Date Extracted: 12/28/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 12/28/2012

GPC Cleanup:(Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	2700	
111-44-4	Bis(2-chloroethyl)ether	2700	
95-57-8	2-Chlorophenol	2700	
95-48-7	2-Methylphenol	2800	
108-60-1	2,2´-oxybis(1-Chloropropane)	2400	
106-44-5	4-Methylphenol	2700	
621-64-7	N-Nitroso-di-n-propylamine	2600	
67-72-1	Hexachloroethane	2800	
98-95-3	Nitrobenzene	3100	
78-59-1	Isophorone	2900	
88-75-5	2-Nitrophenol	3000	
105-67-9	2,4-Dimethylphenol	3300	
120-83-2	2,4-Dichlorophenol	3100	
91-20-3	Naphthalene	3000	
106-47-8	4-Chloroaniline	1700	
111-91-1	Bis(2-chloroethoxy)methane	2900	
87-68-3	Hexachlorobutadiene	3600	
59-50-7	4-Chloro-3-methylphenol	3100	
91-57-6	2-Methylnaphthalene	3000	
77-47-4	Hexachlorocyclopentadiene	3300	
88-06-2	2,4,6-Trichlorophenol	3100	
95-95-4	2,4,5-Trichlorophenol	2900	
91-58-7	2-Chloronaphthalene	2800	
88-74-4	2-Nitroaniline	3000	
131-11-3	Dimethylphthalate	2800	
208-96-8	Acenaphthylene	2600	
606-20-2	2,6-Dinitrotoluene	2800	
99-09-2	3-Nitroaniline	1800	
83-32-9	Acenaphthene	2700	
51-28-5	2,4-Dinitrophenol	2500	
100-02-7	4-Nitrophenol	3200	
132-64-9	Dibenzofuran	2800	
121-14-2	2,4-Dinitrotoluene	2900	
84-66-2	Diethylphthalate	2900	
7005-72-3	4-Chlorophenyl-phenylether	3100	
86-73-7	Fluorene	2900	

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCS-69951

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: LCS-69951

Sample wt/vol: 15.0 (g/mL) G Lab File ID: S6B2193.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: Decanted: (Y/N) Date Received:

Concentrated Extract Volume: 1000 (uL) Date Extracted: 12/28/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 12/28/2012

GPC Cleanup:(Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-01-6	4-Nitroaniline	2100	
534-52-1	4,6-Dinitro-2-methylphenol	2600	
86-30-6	N-Nitrosodiphenylamine	2700	
101-55-3	4-Bromophenyl-phenylether	3100	
118-74-1	Hexachlorobenzene	3200	
87-86-5	Pentachlorophenol	2800	
85-01-8	Phenanthrene	2800	
120-12-7	Anthracene	2800	
86-74-8	Carbazole	2600	
84-74-2	Di-n-butylphthalate	2700	
206-44-0	Fluoranthene	2800	
129-00-0	Pyrene	2900	
85-68-7	Butylbenzylphthalate	2800	
91-94-1	3,3´-Dichlorobenzidine	1700	
56-55-3	Benzo(a)anthracene	2800	
218-01-9	Chrysene	2800	
117-81-7	Bis(2-ethylhexyl)phthalate	2800	
117-84-0	Di-n-octylphthalate	2700	
205-99-2	Benzo(b)fluoranthene	2600	
207-08-9	Benzo(k)fluoranthene	2900	
50-32-8	Benzo(a)pyrene	2600	
193-39-5	Indeno(1,2,3-cd)pyrene	2600	
53-70-3	Dibenzo(a,h)anthracene	2700	
191-24-2	Benzo(g,h,i)perylene	2600	
92-52-4	1,1´-Biphenyl	2600	
95-94-3	1,2,4,5-Tetrachlorobenzene	3600	
58-90-2	2,3,4,6-Tetrachlorophenol	3100	
98-86-2	Acetophenone	2400	
1912-24-9	Atrazine	4100	
100-52-7	Benzaldehyde	340	
105-60-2	Caprolactam	2600	

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-15(5-6)MS

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L2631-01AMS

Sample wt/vol: 15.3 (g/mL) G Lab File ID: S6B2195.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 27 Decanted: (Y/N) N Date Received: 12/21/2012

Concentrated Extract Volume: 1000 (uL) Date Extracted: 12/28/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 12/28/2012

GPC Cleanup:(Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	3000	
111-44-4	Bis(2-chloroethyl)ether	3000	
95-57-8	2-Chlorophenol	3100	
95-48-7	2-Methylphenol	3000	
108-60-1	2,2´-oxybis(1-Chloropropane)	2800	
106-44-5	4-Methylphenol	3000	
621-64-7	N-Nitroso-di-n-propylamine	3000	
67-72-1	Hexachloroethane	3200	
98-95-3	Nitrobenzene	3700	
78-59-1	Isophorone	3400	
88-75-5	2-Nitrophenol	3500	
105-67-9	2,4-Dimethylphenol	4300	
120-83-2	2,4-Dichlorophenol	3600	
91-20-3	Naphthalene	3400	
106-47-8	4-Chloroaniline	1600	
111-91-1	Bis(2-chloroethoxy)methane	3400	
87-68-3	Hexachlorobutadiene	4200	
59-50-7	4-Chloro-3-methylphenol	3600	
91-57-6	2-Methylnaphthalene	3400	
77-47-4	Hexachlorocyclopentadiene	4200	
88-06-2	2,4,6-Trichlorophenol	3800	
95-95-4	2,4,5-Trichlorophenol	3700	
91-58-7	2-Chloronaphthalene	3400	
88-74-4	2-Nitroaniline	3500	
131-11-3	Dimethylphthalate	3300	
208-96-8	Acenaphthylene	3100	
606-20-2	2,6-Dinitrotoluene	3300	
99-09-2	3-Nitroaniline	2100	
83-32-9	Acenaphthene	3300	
51-28-5	2,4-Dinitrophenol	3200	
100-02-7	4-Nitrophenol	4100	
132-64-9	Dibenzofuran	3400	
121-14-2	2,4-Dinitrotoluene	3300	
84-66-2	Diethylphthalate	3300	
7005-72-3	4-Chlorophenyl-phenylether	3600	
86-73-7	Fluorene	3400	

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-15(5-6)MS

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L2631-01AMS

Sample wt/vol: 15.3 (g/mL) G Lab File ID: S6B2195.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 27 Decanted: (Y/N) N Date Received: 12/21/2012

Concentrated Extract Volume: 1000 (uL) Date Extracted: 12/28/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 12/28/2012

GPC Cleanup:(Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-01-6	4-Nitroaniline	2500	
534-52-1	4,6-Dinitro-2-methylphenol	3200	
86-30-6	N-Nitrosodiphenylamine	3200	
101-55-3	4-Bromophenyl-phenylether	3700	
118-74-1	Hexachlorobenzene	3900	
87-86-5	Pentachlorophenol	3800	
85-01-8	Phenanthrene	3300	
120-12-7	Anthracene	3300	
86-74-8	Carbazole	3100	
84-74-2	Di-n-butylphthalate	3700	
206-44-0	Fluoranthene	3300	
129-00-0	Pyrene	3400	
85-68-7	Butylbenzylphthalate	3200	
91-94-1	3,3´-Dichlorobenzidine	2300	
56-55-3	Benzo(a)anthracene	3300	
218-01-9	Chrysene	3300	
117-81-7	Bis(2-ethylhexyl)phthalate	3300	
117-84-0	Di-n-octylphthalate	2900	
205-99-2	Benzo(b)fluoranthene	3200	
207-08-9	Benzo(k)fluoranthene	3200	
50-32-8	Benzo(a)pyrene	3100	
193-39-5	Indeno(1,2,3-cd)pyrene	3300	
53-70-3	Dibenzo(a,h)anthracene	3400	
191-24-2	Benzo(g,h,i)perylene	3300	
92-52-4	1,1´-Biphenyl	3100	
95-94-3	1,2,4,5-Tetrachlorobenzene	4300	
58-90-2	2,3,4,6-Tetrachlorophenol	3700	
98-86-2	Acetophenone	2800	
1912-24-9	Atrazine	4700	
100-52-7	Benzaldehyde	2900	
105-60-2	Caprolactam	3000	

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-15(5-6)MSD

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L2631-01AMSD

Sample wt/vol: 15.5 (g/mL) G Lab File ID: S6B2196.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 27 Decanted: (Y/N) N Date Received: 12/21/2012

Concentrated Extract Volume: 1000 (uL) Date Extracted: 12/28/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 12/28/2012

GPC Cleanup:(Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	2600	
111-44-4	Bis(2-chloroethyl)ether	2700	
95-57-8	2-Chlorophenol	2800	
95-48-7	2-Methylphenol	2700	
108-60-1	2,2´-oxybis(1-Chloropropane)	2300	
106-44-5	4-Methylphenol	2700	
621-64-7	N-Nitroso-di-n-propylamine	2600	
67-72-1	Hexachloroethane	2900	
98-95-3	Nitrobenzene	3300	
78-59-1	Isophorone	3000	
88-75-5	2-Nitrophenol	3200	
105-67-9	2,4-Dimethylphenol	4000	
120-83-2	2,4-Dichlorophenol	3400	
91-20-3	Naphthalene	3100	
106-47-8	4-Chloroaniline	1600	
111-91-1	Bis(2-chloroethoxy)methane	3000	
87-68-3	Hexachlorobutadiene	3600	
59-50-7	4-Chloro-3-methylphenol	3300	
91-57-6	2-Methylnaphthalene	3000	
77-47-4	Hexachlorocyclopentadiene	3400	
88-06-2	2,4,6-Trichlorophenol	3400	
95-95-4	2,4,5-Trichlorophenol	3200	
91-58-7	2-Chloronaphthalene	2900	
88-74-4	2-Nitroaniline	3100	
131-11-3	Dimethylphthalate	2900	
208-96-8	Acenaphthylene	2800	
606-20-2	2,6-Dinitrotoluene	3100	
99-09-2	3-Nitroaniline	2000	
83-32-9	Acenaphthene	2900	
51-28-5	2,4-Dinitrophenol	2400	
100-02-7	4-Nitrophenol	3600	
132-64-9	Dibenzofuran	3000	
121-14-2	2,4-Dinitrotoluene	3000	
84-66-2	Diethylphthalate	2900	
7005-72-3	4-Chlorophenyl-phenylether	3200	
86-73-7	Fluorene	3000	

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-15(5-6)MSD

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L2631-01AMSD

Sample wt/vol: 15.5 (g/mL) G Lab File ID: S6B2196.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 27 Decanted: (Y/N) N Date Received: 12/21/2012

Concentrated Extract Volume: 1000 (uL) Date Extracted: 12/28/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 12/28/2012

GPC Cleanup:(Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-01-6	4-Nitroaniline	2200	
534-52-1	4,6-Dinitro-2-methylphenol	2700	
86-30-6	N-Nitrosodiphenylamine	2900	
101-55-3	4-Bromophenyl-phenylether	3200	
118-74-1	Hexachlorobenzene	3500	
87-86-5	Pentachlorophenol	3300	
85-01-8	Phenanthrene	2900	
120-12-7	Anthracene	2900	
86-74-8	Carbazole	2800	
84-74-2	Di-n-butylphthalate	3300	
206-44-0	Fluoranthene	3000	
129-00-0	Pyrene	2900	
85-68-7	Butylbenzylphthalate	2800	
91-94-1	3,3´-Dichlorobenzidine	2000	
56-55-3	Benzo(a)anthracene	2900	
218-01-9	Chrysene	2900	
117-81-7	Bis(2-ethylhexyl)phthalate	2900	
117-84-0	Di-n-octylphthalate	2600	
205-99-2	Benzo(b)fluoranthene	2800	
207-08-9	Benzo(k)fluoranthene	2800	
50-32-8	Benzo(a)pyrene	2800	
193-39-5	Indeno(1,2,3-cd)pyrene	3000	
53-70-3	Dibenzo(a,h)anthracene	3000	
191-24-2	Benzo(g,h,i)perylene	2900	
92-52-4	1,1´-Biphenyl	2700	
95-94-3	1,2,4,5-Tetrachlorobenzene	3800	
58-90-2	2,3,4,6-Tetrachlorophenol	3400	
98-86-2	Acetophenone	2400	
1912-24-9	Atrazine	4300	
100-52-7	Benzaldehyde	2600	
105-60-2	Caprolactam	2700	

2K - FORM II SV-4

SOIL SEMIVOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

Level: (LOW/MED) LOW

	EPA SAMPLE NO.	SDMC1 (NBZ) #	SDMC2 (FBP) #	SDMC3 (TPH) #	SDMC4 (PHL) #	SDMC5 (2FP) #	SDMC6 (TBP) #			TOT OUT
01	MB-69951	93	83	101	82	86	97			0
02	LCS-69951	90	83	99	81	82	99			0
03	SB-15(5-6)	67	62	78	59	62	85			0
04	SB-15(5-6)MS	79	73	85	69	71	93			0
05	SB-15(5-6)MSD	68	66	76	61	62	86			0
06	SB-16(9-10)	71	66	78	63	66	91			0
07	SB-17(8-9)	78	72	89	66	70	100			0
08	SB-18(6-7)	77	69	81	63	68	89			0
09	SB-19(7-8)	79	70	86	66	69	94			0

			QC LIMITS
SDMC1	(NBZ)	= Nitrobenzene-d5	(35-100)
SDMC2	(FBP)	= 2-Fluorobiphenyl	(45-105)
SDMC3	(TPH)	= Terphenyl-d14	(30-125)
SDMC4	(PHL)	= Phenol-d5	(40-100)
SDMC5	(2FP)	= 2-Fluorophenol	(35-105)
SDMC6	(TBP)	= 2,4,6-Tribromophenol	(35-125)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D DMC diluted out

som12.12.17.A

3D - FORM III SV-2

SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

Matrix Spike - EPA Sample No.: SB-15(5-6)

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS %REC	#	QC. LIMITS REC.
Phenol	4473.1865	0.0000	3018.3180	67		40-100
Bis(2-chloroethyl)ether	4473.1865	0.0000	2963.2628	66		40-105
2-Chlorophenol	4473.1865	0.0000	3148.6961	70		45-105
2-Methylphenol	4473.1865	0.0000	3025.0179	68		40-105
2,2´-oxybis(1-Chloropropan	4473.1865	0.0000	2801.3943	63		20-115
4-Methylphenol	4473.1865	0.0000	3034.0526	68		40-105
N-Nitroso-di-n-propylamine	4473.1865	0.0000	2972.0597	66		40-115
Hexachloroethane	4473.1865	0.0000	3172.5631	71		35-110
Nitrobenzene	4473.1865	0.0000	3663.9065	82		40-115
Isophorone	4473.1865	0.0000	3390.9028	76		45-110
2-Nitrophenol	4473.1865	0.0000	3511.8956	79		40-110
2,4-Dimethylphenol	4473.1865	0.0000	4293.2072	96		30-105
2,4-Dichlorophenol	4473.1865	0.0000	3618.4943	81		45-110
Naphthalene	4473.1865	0.0000	3417.6169	76		40-105
4-Chloroaniline	4473.1865	0.0000	1575.9811	35		10-100
Bis(2-chloroethoxy)methane	4473.1865	0.0000	3414.2906	76		45-110
Hexachlorobutadiene	4473.1865	0.0000	4207.5543	94		40-115
4-Chloro-3-methylphenol	4473.1865	0.0000	3610.7675	81		45-115
2-Methylnaphthalene	4473.1865	0.0000	3412.1522	76		45-105
Hexachlorocyclopentadiene	4473.1865	0.0000	4161.2598	93		8-148
2,4,6-Trichlorophenol	4473.1865	0.0000	3790.3272	85		45-110
2,4,5-Trichlorophenol	4473.1865	0.0000	3697.5563	83		50-110
2-Chloronaphthalene	4473.1865	0.0000	3361.3814	75		45-105
2-Nitroaniline	4473.1865	0.0000	3452.1454	77		45-120
Dimethylphthalate	4473.1865	0.0000	3309.9028	74		50-110
Acenaphthylene	4473.1865	0.0000	3147.0931	70		45-105
2,6-Dinitrotoluene	4473.1865	0.0000	3267.7431	73		50-110
3-Nitroaniline	4473.1865	0.0000	2059.0554	46		25-110
Acenaphthene	4473.1865	0.0000	3320.8053	74		45-110
2,4-Dinitrophenol	4473.1865	0.0000	3203.7843	72		15-130
4-Nitrophenol	4473.1865	0.0000	4050.6127	91		15-140
Dibenzofuran	4473.1865	0.0000	3388.4140	76		50-105
2,4-Dinitrotoluene	4473.1865	0.0000	3283.8864	73		50-115
Diethylphthalate	4473.1865	0.0000	3305.3585	74		50-115
4-Chlorophenyl-phenylether	4473.1865	0.0000	3557.3702	80		45-110
Fluorene	4473.1865	0.0000	3385.8302	76		50-110
4-Nitroaniline	4473.1865	0.0000	2520.9782	56		35-115
4,6-Dinitro-2-methylphenol	4473.1865	0.0000	3170.3936	71		30-135
N-Nitrosodiphenylamine	4473.1865	0.0000	3239.1346	72		50-115
4-Bromophenyl-phenylether	4473.1865	0.0000	3745.1293	84		45-115
Hexachlorobenzene	4473.1865	0.0000	3906.0006	87		45-120
Pentachlorophenol	4473.1865	0.0000	3805.4663	85		25-120
Phenanthrene	4473.1865	0.0000	3332.2749	74		50-110
Anthracene	4473.1865	0.0000	3288.2260	74		55-105

3D - FORM III SV-2

SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

Matrix Spike - EPA Sample No.: SB-15(5-6)

Carbazole	4473.1865	0.0000	3136.9777	70		45-115
Di-n-butylphthalate	4473.1865	428.5359	3660.4378	72		55-110
Fluoranthene	4473.1865	0.0000	3317.2713	74		55-115
Pyrene	4473.1865	0.0000	3395.0848	76		45-125
Butylbenzylphthalate	4473.1865	0.0000	3166.2799	71		50-125
3,3´-Dichlorobenzidine	4473.1865	0.0000	2314.9490	52		10-130
Benzo(a)anthracene	4473.1865	0.0000	3337.0097	75		50-110
Chrysene	4473.1865	0.0000	3318.8154	74		55-110
Bis(2-ethylhexyl)phthalate	4473.1865	361.1991	3293.4127	66		45-125
Di-n-octylphthalate	4473.1865	0.0000	2945.1849	66		40-130
Benzo(b)fluoranthene	4473.1865	0.0000	3180.5699	71		45-115
Benzo(k)fluoranthene	4473.1865	0.0000	3195.3308	71		45-125
Benzo(a)pyrene	4473.1865	0.0000	3118.0286	70		50-110
Indeno(1,2,3-cd)pyrene	4473.1865	0.0000	3327.0901	74		40-120
Dibenzo(a,h)anthracene	4473.1865	0.0000	3397.8637	76		40-125
Benzo(g,h,i)perylene	4473.1865	0.0000	3345.7845	75		40-125
1,1´-Biphenyl	4473.1865	0.0000	3105.0058	69		50-121
1,2,4,5-Tetrachlorobenzene	4473.1865	0.0000	4316.9282	97		50-126
2,3,4,6-Tetrachlorophenol	4473.1865	0.0000	3714.0836	83		41-139
Acetophenone	4473.1865	0.0000	2780.3238	62		50-150
Atrazine	4473.1865	0.0000	4661.7727	104		50-150
Benzaldehyde	4473.1865	0.0000	2894.9826	65		10-118
Caprolactam	4473.1865	0.0000	2957.2127	66		41-115

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD %REC	#	%RPD	#	QC LIMITS RPD	QC LIMITS REC.
Phenol	4415.4679	2622.5004	59		13		0-40	40-100
Bis(2-chloroethyl)ether	4415.4679	2660.9264	60		9		0-40	40-105
2-Chlorophenol	4415.4679	2813.4177	64		10		0-40	45-105
2-Methylphenol	4415.4679	2723.1776	62		9		0-40	40-105
2,2´-oxybis(1-Chloropropan	4415.4679	2317.7105	52		18		0-40	20-115
4-Methylphenol	4415.4679	2725.9498	62		9		0-40	40-105
N-Nitroso-di-n-propylamine	4415.4679	2600.1143	59		12		0-40	40-115
Hexachloroethane	4415.4679	2858.2351	65		9		0-40	35-110
Nitrobenzene	4415.4679	3253.2649	74		11		0-40	40-115
Isophorone	4415.4679	2992.3795	68		11		0-40	45-110
2-Nitrophenol	4415.4679	3161.4463	72		9		0-40	40-110
2,4-Dimethylphenol	4415.4679	3967.8978	90		7		0-40	30-105
2,4-Dichlorophenol	4415.4679	3383.2570	77		5		0-40	45-110
Naphthalene	4415.4679	3093.2057	70		9		0-40	40-105
4-Chloroaniline	4415.4679	1612.9833	37		4		0-40	10-100
Bis(2-chloroethoxy)methane	4415.4679	3036.3452	69		10		0-40	45-110
Hexachlorobutadiene	4415.4679	3617.9891	82		14		0-40	40-115
4-Chloro-3-methylphenol	4415.4679	3289.3418	74		8		0-40	45-115
2-Methylnaphthalene	4415.4679	3018.3918	68		11		0-40	45-105
Hexachlorocyclopentadiene	4415.4679	3373.3654	76		20		0-40	8-148

3D - FORM III SV-2

SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

Matrix Spike - EPA Sample No.: SB-15(5-6)

2,4,6-Trichlorophenol	4415.4679	3385.9809	77		10		0-40	45-110
2,4,5-Trichlorophenol	4415.4679	3184.2245	72		14		0-40	50-110
2-Chloronaphthalene	4415.4679	2935.8142	66		12		0-40	45-105
2-Nitroaniline	4415.4679	3143.5617	71		8		0-40	45-120
Dimethylphthalate	4415.4679	2946.3101	67		10		0-40	50-110
Acenaphthylene	4415.4679	2754.3589	62		12		0-40	45-105
2,6-Dinitrotoluene	4415.4679	3050.5745	69		6		0-40	50-110
3-Nitroaniline	4415.4679	2026.0607	46		0		0-40	25-110
Acenaphthene	4415.4679	2921.6684	66		11		0-40	45-110
2,4-Dinitrophenol	4415.4679	2425.9086	55		26		0-40	15-130
4-Nitrophenol	4415.4679	3563.9172	81		11		0-40	15-140
Dibenzofuran	4415.4679	2961.8519	67		12		0-40	50-105
2,4-Dinitrotoluene	4415.4679	3006.4548	68		8		0-40	50-115
Diethylphthalate	4415.4679	2943.5381	67		10		0-40	50-115
4-Chlorophenyl-phenylether	4415.4679	3152.7363	71		11		0-40	45-110
Fluorene	4415.4679	2968.8252	67		12		0-40	50-110
4-Nitroaniline	4415.4679	2176.9837	49		13		0-40	35-115
4,6-Dinitro-2-methylphenol	4415.4679	2680.7617	61		15		0-40	30-135
N-Nitrosodiphenylamine	4415.4679	2887.4147	65		10		0-40	50-115
4-Bromophenyl-phenylether	4415.4679	3242.5488	73		13		0-40	45-115
Hexachlorobenzene	4415.4679	3482.7325	79		10		0-40	45-120
Pentachlorophenol	4415.4679	3287.8671	74		13		0-40	25-120
Phenanthrene	4415.4679	2948.6128	67		11		0-40	50-110
Anthracene	4415.4679	2880.5801	65		12		0-40	55-105
Carbazole	4415.4679	2786.6243	63		11		0-40	45-115
Di-n-butylphthalate	4415.4679	3275.0292	64		11		0-40	55-110
Fluoranthene	4415.4679	2971.3691	67		10		0-40	55-115
Pyrene	4415.4679	2928.1483	66		13		0-40	45-125
Butylbenzylphthalate	4415.4679	2772.2488	63		12		0-40	50-125
3,3´-Dichlorobenzidine	4415.4679	2003.1285	45		13		0-40	10-130
Benzo(a)anthracene	4415.4679	2949.7858	67		11		0-40	50-110
Chrysene	4415.4679	2888.6342	65		13		0-40	55-110
Bis(2-ethylhexyl)phthalate	4415.4679	2887.6866	57		14		0-40	45-125
Di-n-octylphthalate	4415.4679	2604.6960	59		11		0-40	40-130
Benzo(b)fluoranthene	4415.4679	2842.3247	64		10		0-40	45-115
Benzo(k)fluoranthene	4415.4679	2789.1391	63		12		0-40	45-125
Benzo(a)pyrene	4415.4679	2784.8284	63		10		0-40	50-110
Indeno(1,2,3-cd)pyrene	4415.4679	2961.5687	67		10		0-40	40-120
Dibenzo(a,h)anthracene	4415.4679	2962.3122	67		12		0-40	40-125
Benzo(g,h,i)perylene	4415.4679	2926.3142	66		12		0-40	40-125
1,1´-Biphenyl	4415.4679	2678.4855	61		13		0-40	50-121
1,2,4,5-Tetrachlorobenzene	4415.4679	3792.8461	86		12		0-40	50-126
2,3,4,6-Tetrachlorophenol	4415.4679	3375.2927	76		8		0-40	41-139
Acetophenone	4415.4679	2434.8632	55		12		0-40	50-150
Atrazine	4415.4679	4270.8460	97		7		0-40	50-150
Benzaldehyde	4415.4679	2565.7730	58		11		0-40	10-118
Caprolactam	4415.4679	2675.3360	61		9		0-40	41-115

3D - FORM III SV-2

SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

Matrix Spike - EPA Sample No.: SB-15(5-6)

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 67 outside limits

Spike Recovery: 0 out of 134 outside limits

COMMENTS:

3 - FORM III
SOIL LABORATORY CONTROL
SAMPLE RECOVERY

EPA SAMPLE NO.
LCS-69951

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

Lab Sample ID: LCS-69951 LCS Lot No.: A087697

Date Extracted: 12/28/2012 Date Analyzed (1): 12/28/2012

COMPOUND	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS %REC	#	QC. LIMITS REC.
Phenol	3333.0000	0.0000	2660.2734	80		40 - 100
Bis(2-chloroethyl)ether	3333.0000	0.0000	2709.1529	81		40 - 105
2-Chlorophenol	3333.0000	0.0000	2721.0088	82		45 - 105
2-Methylphenol	3333.0000	0.0000	2766.0416	83		40 - 105
2,2´-oxybis(1-Chloropropan	3333.0000	0.0000	2399.9600	72		20 - 115
4-Methylphenol	3333.0000	0.0000	2666.6488	80		40 - 105
N-Nitroso-di-n-propylamine	3333.0000	0.0000	2604.6134	78		40 - 115
Hexachloroethane	3333.0000	0.0000	2830.7593	85		35 - 110
Nitrobenzene	3333.0000	0.0000	3131.3933	94		40 - 115
Isophorone	3333.0000	0.0000	2882.3402	86		45 - 110
2-Nitrophenol	3333.0000	0.0000	3049.0286	91		40 - 110
2,4-Dimethylphenol	3333.0000	0.0000	3308.0829	99		30 - 105
2,4-Dichlorophenol	3333.0000	0.0000	3120.1202	94		45 - 110
Naphthalene	3333.0000	0.0000	2972.7070	89		40 - 105
4-Chloroaniline	3333.0000	0.0000	1726.0080	52		10 - 100
Bis(2-chloroethoxy)methane	3333.0000	0.0000	2940.8639	88		45 - 110
Hexachlorobutadiene	3333.0000	0.0000	3590.3133	108		40 - 115
4-Chloro-3-methylphenol	3333.0000	0.0000	3104.6075	93		45 - 115
2-Methylnaphthalene	3333.0000	0.0000	2965.3157	89		45 - 105
Hexachlorocyclopentadiene	3333.0000	0.0000	3325.6461	100		8 - 148
2,4,6-Trichlorophenol	3333.0000	0.0000	3090.8713	93		45 - 110
2,4,5-Trichlorophenol	3333.0000	0.0000	2908.3918	87		50 - 110
2-Chloronaphthalene	3333.0000	0.0000	2782.1734	83		45 - 105
2-Nitroaniline	3333.0000	0.0000	3031.2915	91		45 - 120
Dimethylphthalate	3333.0000	0.0000	2814.8428	84		50 - 110
Acenaphthylene	3333.0000	0.0000	2615.8531	78		45 - 105
2,6-Dinitrotoluene	3333.0000	0.0000	2819.6356	85		50 - 110
3-Nitroaniline	3333.0000	0.0000	1798.1187	54		25 - 110
Acenaphthene	3333.0000	0.0000	2738.8686	82		45 - 110
2,4-Dinitrophenol	3333.0000	0.0000	2522.4896	76		15 - 130
4-Nitrophenol	3333.0000	0.0000	3230.7638	97		15 - 140
Dibenzofuran	3333.0000	0.0000	2802.7640	84		50 - 105
2,4-Dinitrotoluene	3333.0000	0.0000	2853.9262	86		50 - 115
Diethylphthalate	3333.0000	0.0000	2850.4853	86		50 - 115
4-Chlorophenyl-phenylether	3333.0000	0.0000	3082.0707	92		45 - 110
Fluorene	3333.0000	0.0000	2871.2085	86		50 - 110
4-Nitroaniline	3333.0000	0.0000	2099.4741	63		35 - 115
4,6-Dinitro-2-methylphenol	3333.0000	0.0000	2563.2635	77		30 - 135
N-Nitrosodiphenylamine	3333.0000	0.0000	2678.6996	80		50 - 115
4-Bromophenyl-phenylether	3333.0000	0.0000	3107.8340	93		45 - 115
Hexachlorobenzene	3333.0000	0.0000	3246.6177	97		45 - 120
Pentachlorophenol	3333.0000	0.0000	2771.4029	83		25 - 120
Phenanthrene	3333.0000	0.0000	2777.1538	83		50 - 110
Anthracene	3333.0000	0.0000	2795.9977	84		55 - 105

3 - FORM III
SOIL LABORATORY CONTROL
SAMPLE RECOVERY

EPA SAMPLE NO.
LCS-69951

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

Lab Sample ID: LCS-69951 LCS Lot No.: A087697

Date Extracted: 12/28/2012 Date Analyzed (1): 12/28/2012

COMPOUND	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS %REC	#	QC. LIMITS REC.
Carbazole	3333.0000	0.0000	2629.2340	79		45 - 115
Di-n-butylphthalate	3333.0000	0.0000	2746.2132	82		55 - 110
Fluoranthene	3333.0000	0.0000	2820.4432	85		55 - 115
Pyrene	3333.0000	0.0000	2882.4201	86		45 - 125
Butylbenzylphthalate	3333.0000	0.0000	2753.2080	83		50 - 125
3,3´-Dichlorobenzidine	3333.0000	0.0000	1700.9631	51		10 - 130
Benzo(a)anthracene	3333.0000	0.0000	2823.5356	85		50 - 110
Chrysene	3333.0000	0.0000	2772.9725	83		55 - 110
Bis(2-ethylhexyl)phthalate	3333.0000	0.0000	2766.5514	83		45 - 125
Di-n-octylphthalate	3333.0000	0.0000	2652.0715	80		40 - 130
Benzo(b)fluoranthene	3333.0000	0.0000	2562.1754	77		45 - 115
Benzo(k)fluoranthene	3333.0000	0.0000	2888.8983	87		45 - 125
Benzo(a)pyrene	3333.0000	0.0000	2618.8545	79		50 - 110
Indeno(1,2,3-cd)pyrene	3333.0000	0.0000	2649.1825	79		40 - 120
Dibenzo(a,h)anthracene	3333.0000	0.0000	2710.5539	81		40 - 125
Benzo(g,h,i)perylene	3333.0000	0.0000	2617.7263	79		40 - 125
1,1´-Biphenyl	3333.0000	0.0000	2564.2701	77		50 - 121
1,2,4,5-Tetrachlorobenzene	3333.0000	0.0000	3581.3499	107		50 - 126
2,3,4,6-Tetrachlorophenol	3333.0000	0.0000	3073.1298	92		41 - 139
Acetophenone	3333.0000	0.0000	2381.5664	71		50 - 150
Atrazine	3333.0000	0.0000	4095.7078	123		50 - 150
Benzaldehyde	3333.0000	0.0000	336.6403	10		10 - 118
Caprolactam	3333.0000	0.0000	2607.9064	78		41 - 115

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 0 out of 67 outside limits

COMMENTS:

4C - FORM IV SV

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

MB-69951

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

Lab File ID: S6B2192.D Lab Sample ID: MB-69951

Instrument ID: S6 Date Extracted: 12/28/2012

Matrix: (SOIL/SED/WATER) SOIL Date Analyzed: 12/28/2012

Level: (LOW/MED) LOW Time Analyzed: 14:35

Extraction: (Type) SONC GPC Cleanup: (Y/N) N

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	LCS-69951	LCS-69951	S6B2193.D	12/28/2012
02	SB-15(5-6)	L2631-01A	S6B2194.D	12/28/2012
03	SB-15(5-6)MS	L2631-01AMS	S6B2195.D	12/28/2012
04	SB-15(5-6)MSD	L2631-01AMSD	S6B2196.D	12/28/2012
05	SB-16(9-10)	L2631-07A	S6B2197.D	12/28/2012
06	SB-17(8-9)	L2631-13A	S6B2198.D	12/28/2012
07	SB-18(6-7)	L2631-15A	S6B2199.D	12/28/2012
08	SB-19(7-8)	L2631-19A	S6B2200.D	12/28/2012

COMMENTS:

8C - FORM VIII SV-1

SEMIVOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

GC Column: Rxi-5sil MS ID: 0.25 (mm) Init. Calib. Date(s): 12/18/2012 12/18/2012

EPA Sample No.(SSTD020##) SSTD0256K Date Analyzed: 12/28/2012

Lab File ID (Standard): S6B2191A.D Time Analyzed: 13:57

Instrument ID: S6

		IS1 (DCB) AREA	#	RT	#	IS2 (NPT) AREA	#	RT	#	IS3 (ANT) AREA	#	RT	#
	12 HOUR STD	40802		4.389		148757		5.511		109008		6.992	
	UPPER LIMIT	81604		4.889		297514		6.011		218016		7.492	
	LOWER LIMIT	20401		3.889		74379		5.011		54504		6.492	
	EPA SAMPLE NO.												
01	MB-69951	38143		4.383		136851		5.506		97723		6.992	
02	LCS-69951	40836		4.389		149044		5.511		107706		6.992	
03	SB-15(5-6)	38332		4.389		131498		5.505		92320		6.986	
04	SB-15(5-6)MS	39049		4.395		138243		5.511		95591		6.992	
05	SB-15(5-6)MSD	36996		4.395		129003		5.511		91267		6.992	
06	SB-16(9-10)	37182		4.389		129947		5.505		89387		6.986	
07	SB-17(8-9)	36727		4.395		127468		5.506		90369		6.986	
08	SB-18(6-7)	37012		4.389		128295		5.505		91267		6.986	
09	SB-19(7-8)	35589		4.389		124913		5.505		89439		6.986	

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10
AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside contract required QC limits with an asterisk.

8D - FORM VIII SV-2

SEMIVOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

EPA Sample No.(SSTD020##) SSTD0256K Date Analyzed: 12/28/2012

Lab File ID (Standard): S6B2191A.D Time Analyzed: 13:57

Instrument ID: S6 GC Column: Rxi-5sil MS ID: 0.25 (mm)

		IS4 (PHN) AREA	#	RT	#	IS5 (CRY) AREA	#	RT	#	IS6 (PRY) AREA	#	RT	#
	12 HOUR STD	222198		8.226		255566		10.5		230079		11.945	
	UPPER LIMIT	444396		8.726		511132		11		460158		12.445	
	LOWER LIMIT	111099		7.726		127783		10		115040		11.445	
	EPA SAMPLE NO.												
01	MB-69951	200754		8.226		225988		10.529		216183		11.986	
02	LCS-69951	221702		8.226		252629		10.482		235460		11.910	
03	SB-15(5-6)	185728		8.220		211239		10.459		212105		11.880	
04	SB-15(5-6)MS	192155		8.226		220137		10.459		217216		11.875	
05	SB-15(5-6)MSD	184531		8.226		221023		10.464		220085		11.881	
06	SB-16(9-10)	183448		8.220		223276		10.453		225456		11.875	
07	SB-17(8-9)	180566		8.220		215213		10.459		216368		11.875	
08	SB-18(6-7)	183903		8.220		214012		10.464		216241		11.886	
09	SB-19(7-8)	181191		8.220		218363		10.459		218369		11.875	

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12
AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside contract required QC limits with an asterisk.

* Pesticide Organics *

REPORT NARRATIVE

Spectrum Analytical, Inc. Featuring Hanibal Technology, RI Division.

Client : ARCADIS U.S., Inc.

Project: S&S Dry Cleaners & Dyers

Laboratory Workorder / SDG #: L2631

SW846 8081B, Organochlorine Pesticides by GC-ECD

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code: SW846 8081B

IV. PREPARATION

Soil Samples were prepared following procedures in laboratory test code: SW3550

V. INSTRUMENTATION

The following instrumentation was used

Instrument Code: E5
Instrument Type: GC-ECD
Description: HP6890
Manufacturer: Hewlett-Packard
Model: 6890
GC Column used: 30 m X 0.53 mm ID [0.50 um thickness] CLPPest capillary column.

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

Surrogate standard percent recoveries were within the QC limits with the following exceptions. Please note that the acceptance criteria allow one surrogate recovery outside of the QC limits per fraction.

SB-15(5-6) (L2631-01A), recovery is below criteria for Decachlorobiphenyl on front column, at 51% with criteria of (55-130).

SB-16(9-10) (L2631-07A), recovery is below criteria for Decachlorobiphenyl on front column, at 54% with criteria of (55-130).

D. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits.

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

Matrix spikes were performed on samples: SB-15(5-6) (L2631-01AMS) and SB-15(5-6) (L2631-01AMSD).

Percent recoveries were within the QC limits with the following exceptions:

SB-15(5-6) (L2631-01AMS)Percent Recovery is outside QC Limits, recovery is below criteria for 4,4´-DDE on rear column, at 69% with criteria of (70-125), 4,4´-DDE on front column, at 61% with criteria of (70-125), Dieldrin on front column, at 64% with criteria of (65-125), Endosulfan sulfate on front column, at 59% with criteria of (60-135), Endrin ketone on front column, at 57% with criteria of (65-135), gamma-Chlordane on rear column, at 48% with criteria of (65-125), gamma-Chlordane on front column, at 58% with criteria of (65-125) and Heptachlor epoxide on front column, at 63% with criteria of (65-130).

SB-15(5-6) (L2631-01AMSD)Percent Recovery is outside QC Limits, recovery is below criteria for 4,4´-DDE on rear column, at 64% with criteria of (70-125), 4,4´-DDE on front column, at 61% with criteria of (70-125), alpha-Chlordane on rear column, at 64% with criteria of (65-120), alpha-Chlordane on front column, at 62% with criteria of (65-120), Dieldrin on front column, at 62% with criteria of (65-125), Endosulfan sulfate on rear column, at 59% with criteria of (60-135), Endosulfan sulfate on front column, at 54% with criteria of (60-135), Endrin ketone on front column, at 53% with criteria of (65-135), gamma-Chlordane on rear column, at 57% with criteria of (65-125), gamma-Chlordane on front column, at 58% with criteria of (65-125), Heptachlor epoxide on rear column, at 65% with criteria of (65-130) and Heptachlor epoxide on front column, at 61% with criteria of (65-130).

Replicate RPDs were within the advisory QC limits.

E. Dilutions:

No sample in this SDG required analysis at dilution.

F. Samples:

The lower concentration between the primary and confirmatory GC column concentrations is reported due to the presence of interferences unless otherwise indicated. P flags are assigned to compounds when D% between the two columns are greater than 40%.

No other unusual occurrences were noted during sample analysis.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.



Signed:_____ _____

Date:_____1/7/2013_____

Data Flag/Qualifiers:

U Not Detected. This compound was analyzed-for but not detected. For most analyses the reporting limit (lowest standard concentration) is the value listed. For Department of Defense programs, this is the Limit of Detection (LOD).

J This flag indicates an estimated value due to either
- the compound was detected below the reporting limit, or
- estimated concentration for Tentatively Identified Compound

B This flag indicates the compound was also detected in the associated Method Blank. The B flag has an alternative meaning for Inorganics analyses reported using CLP ILM-type metals forms, indicating a "trace" concentration below the reporting limit and equal to or above the detection limit.

D For Organics analysis, this flag indicates the compound concentration was obtained from a secondary dilution analysis

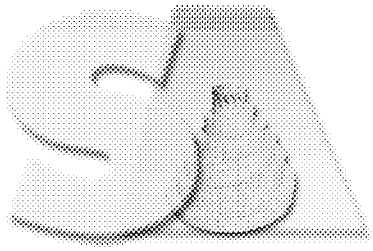
E This flag indicates the compound concentration exceeded the Calibration Range. The E flag has an alternative meaning for Inorganics analyses reported using CLP metals forms, indicating an estimated concentration due to the presence of interferences, as determined by the serial dilution analysis.

P This flag is used for pesticides/PCB/herbicide compound when there is a greater than 40% difference for detected concentration between the two GC columns used for primary and confirmation analyses. This difference typically indicates an interference, causing one value to be unusually high. The **lower** of the two values is generally reported on the Form 1, and both values reported on the Form 10.

A Used to flag semivolatile organic Tentatively Identified Compound library search results for compounds identified as aldol condensation byproducts.

N Used to flag results for volatile and semivolatile Organics analysis Tentatively Identified Compounds where an analyte has passed the identification criteria, and is considered to be positively identified. For Inorganics analysis the N flag indicates the matrix spike recovery falls outside of the control limit.

* For Inorganics analysis the * flag indicates Relative Percent Difference for duplicate analyses is outside of the control limit.



Sample ID Suffixes

DL Diluted analysis. The sample was diluted and reanalyzed. The DL may be followed by a digit if more than one diluted reanalysis is provided. The DL suffix is not attached to an analysis initially performed at dilution, only to reanalyses performed at dilution

RE Reanalysis. Appended to the client sample ID to indicate a reextraction and reanalysis or a reanalysis of the original sample extract.

RA Reanalysis. Appended to the laboratory sample ID indicates a reanalysis of the original sample extract.

RX Reextraction. Appended to the laboratory sample ID indicates a reextraction of the sample.

MS Matrix Spike.

MSD Matrix Spike Duplicate

DUP Duplicate analysis

SD Serial Dilution

PS Post-digestion or Post-distillation spike. For metals or inorganic analyses

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-15(5-6)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L2631-01A

Sample wt/vol: 30.6 (g/mL) G Lab File ID: E5J3760F.D/E5J3760R.D

% Moisture: 27 Decanted: (Y/N) N Date Received: 12/21/2012

Extraction: (Type) SONC Date Extracted: 12/28/2012

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/28/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0

GPC Cleanup:(Y/N) N pH: Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.3	U
319-85-7	beta-BHC	2.3	U
319-86-8	delta-BHC	2.3	U
58-89-9	gamma-BHC (Lindane)	2.3	U
76-44-8	Heptachlor	2.3	U
309-00-2	Aldrin	2.3	U
1024-57-3	Heptachlor epoxide	2.3	U
959-98-8	Endosulfan I	2.3	U
60-57-1	Dieldrin	4.4	U
72-55-9	4,4´-DDE	4.4	U
72-20-8	Endrin	4.4	U
33213-65-9	Endosulfan II	4.4	U
72-54-8	4,4´-DDD	4.4	U
1031-07-8	Endosulfan sulfate	4.4	U
50-29-3	4,4´-DDT	4.4	U
72-43-5	Methoxychlor	23	U
53494-70-5	Endrin ketone	4.4	U
7421-93-4	Endrin aldehyde	4.4	U
5103-71-9	alpha-Chlordane	2.3	U
5103-74-2	gamma-Chlordane	2.3	U
8001-35-2	Toxaphene	230	U

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-16(9-10)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L2631-07A

Sample wt/vol: 30.4 (g/mL) G Lab File ID: E5J3763F.D/E5J3763R.D

% Moisture: 21 Decanted: (Y/N) N Date Received: 12/21/2012

Extraction: (Type) SONC Date Extracted: 12/28/2012

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/28/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0

GPC Cleanup:(Y/N) N pH: Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.1	U
319-85-7	beta-BHC	2.1	U
319-86-8	delta-BHC	2.1	U
58-89-9	gamma-BHC (Lindane)	2.1	U
76-44-8	Heptachlor	2.1	U
309-00-2	Aldrin	2.1	U
1024-57-3	Heptachlor epoxide	2.1	U
959-98-8	Endosulfan I	2.1	U
60-57-1	Dieldrin	4.1	U
72-55-9	4,4´-DDE	4.1	U
72-20-8	Endrin	4.1	U
33213-65-9	Endosulfan II	4.1	U
72-54-8	4,4´-DDD	4.1	U
1031-07-8	Endosulfan sulfate	4.1	U
50-29-3	4,4´-DDT	4.1	U
72-43-5	Methoxychlor	21	U
53494-70-5	Endrin ketone	4.1	U
7421-93-4	Endrin aldehyde	4.1	U
5103-71-9	alpha-Chlordane	2.1	U
5103-74-2	gamma-Chlordane	2.1	U
8001-35-2	Toxaphene	210	U

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-17(8-9)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L2631-13A

Sample wt/vol: 30.4 (g/mL) G Lab File ID: E5J3764F.D/E5J3764R.D

% Moisture: 19 Decanted: (Y/N) N Date Received: 12/21/2012

Extraction: (Type) SONC Date Extracted: 12/28/2012

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/28/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0

GPC Cleanup:(Y/N) N pH: Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.1	U
319-85-7	beta-BHC	2.1	U
319-86-8	delta-BHC	2.1	U
58-89-9	gamma-BHC (Lindane)	2.1	U
76-44-8	Heptachlor	2.1	U
309-00-2	Aldrin	2.1	U
1024-57-3	Heptachlor epoxide	2.1	U
959-98-8	Endosulfan I	2.1	U
60-57-1	Dieldrin	4.0	U
72-55-9	4,4´-DDE	4.0	U
72-20-8	Endrin	4.0	U
33213-65-9	Endosulfan II	4.0	U
72-54-8	4,4´-DDD	4.0	U
1031-07-8	Endosulfan sulfate	4.0	U
50-29-3	4,4´-DDT	4.0	U
72-43-5	Methoxychlor	21	U
53494-70-5	Endrin ketone	4.0	U
7421-93-4	Endrin aldehyde	4.0	U
5103-71-9	alpha-Chlordane	2.1	U
5103-74-2	gamma-Chlordane	2.1	U
8001-35-2	Toxaphene	210	U

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-18(6-7)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L2631-15A

Sample wt/vol: 30.4 (g/mL) G Lab File ID: E5J3765F.D/E5J3765R.D

% Moisture: 27 Decanted: (Y/N) N Date Received: 12/21/2012

Extraction: (Type) SONC Date Extracted: 12/28/2012

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/28/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0

GPC Cleanup:(Y/N) N pH: Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.3	U
319-85-7	beta-BHC	2.3	U
319-86-8	delta-BHC	2.3	U
58-89-9	gamma-BHC (Lindane)	2.3	U
76-44-8	Heptachlor	2.3	U
309-00-2	Aldrin	2.3	U
1024-57-3	Heptachlor epoxide	2.3	U
959-98-8	Endosulfan I	2.3	U
60-57-1	Dieldrin	4.4	U
72-55-9	4,4´-DDE	4.4	U
72-20-8	Endrin	4.4	U
33213-65-9	Endosulfan II	4.4	U
72-54-8	4,4´-DDD	4.4	U
1031-07-8	Endosulfan sulfate	4.4	U
50-29-3	4,4´-DDT	4.4	U
72-43-5	Methoxychlor	23	U
53494-70-5	Endrin ketone	4.4	U
7421-93-4	Endrin aldehyde	4.4	U
5103-71-9	alpha-Chlordane	2.3	U
5103-74-2	gamma-Chlordane	2.3	U
8001-35-2	Toxaphene	230	U

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-19(7-8)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L2631-19A

Sample wt/vol: 30.3 (g/mL) G Lab File ID: E5J3766F.D/E5J3766R.D

% Moisture: 22 Decanted: (Y/N) N Date Received: 12/21/2012

Extraction: (Type) SONC Date Extracted: 12/28/2012

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/28/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0

GPC Cleanup:(Y/N) N pH: Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.2	U
319-85-7	beta-BHC	2.2	U
319-86-8	delta-BHC	2.2	U
58-89-9	gamma-BHC (Lindane)	2.2	U
76-44-8	Heptachlor	2.2	U
309-00-2	Aldrin	2.2	U
1024-57-3	Heptachlor epoxide	2.2	U
959-98-8	Endosulfan I	2.2	U
60-57-1	Dieldrin	4.2	U
72-55-9	4,4´-DDE	4.2	U
72-20-8	Endrin	4.2	U
33213-65-9	Endosulfan II	4.2	U
72-54-8	4,4´-DDD	4.2	U
1031-07-8	Endosulfan sulfate	4.2	U
50-29-3	4,4´-DDT	4.2	U
72-43-5	Methoxychlor	22	U
53494-70-5	Endrin ketone	4.2	U
7421-93-4	Endrin aldehyde	4.2	U
5103-71-9	alpha-Chlordane	2.2	U
5103-74-2	gamma-Chlordane	2.2	U
8001-35-2	Toxaphene	220	U

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MB-69952

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: MB-69952

Sample wt/vol: 30.0 (g/mL) G Lab File ID: E5J3758F.D/E5J3758R.D

% Moisture: Decanted: (Y/N) Date Received:

Extraction: (Type) SONC Date Extracted: 12/28/2012

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/28/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0

GPC Cleanup:(Y/N) N pH: Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.7	U
319-85-7	beta-BHC	1.7	U
319-86-8	delta-BHC	1.7	U
58-89-9	gamma-BHC (Lindane)	1.7	U
76-44-8	Heptachlor	1.7	U
309-00-2	Aldrin	1.7	U
1024-57-3	Heptachlor epoxide	1.7	U
959-98-8	Endosulfan I	1.7	U
60-57-1	Dieldrin	3.3	U
72-55-9	4,4´-DDE	3.3	U
72-20-8	Endrin	3.3	U
33213-65-9	Endosulfan II	3.3	U
72-54-8	4,4´-DDD	3.3	U
1031-07-8	Endosulfan sulfate	3.3	U
50-29-3	4,4´-DDT	3.3	U
72-43-5	Methoxychlor	17	U
53494-70-5	Endrin ketone	3.3	U
7421-93-4	Endrin aldehyde	3.3	U
5103-71-9	alpha-Chlordane	1.7	U
5103-74-2	gamma-Chlordane	1.7	U
8001-35-2	Toxaphene	170	U

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCS-69952(1)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: LCS-69952

Sample wt/vol: 30 (g/mL) G Lab File ID: E5J3759F.D

% Moisture: Decanted: (Y/N) Date Received:

Extraction: (Type) SONC Date Extracted: 12/28/2012

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/28/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0

GPC Cleanup:(Y/N) N pH: Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	5.4	
319-85-7	beta-BHC	5.6	
319-86-8	delta-BHC	5.4	
58-89-9	gamma-BHC (Lindane)	5.4	
76-44-8	Heptachlor	5.3	
309-00-2	Aldrin	5.3	
1024-57-3	Heptachlor epoxide	5.3	
959-98-8	Endosulfan I	5.1	
60-57-1	Dieldrin	11	
72-55-9	4,4´-DDE	11	
72-20-8	Endrin	11	
33213-65-9	Endosulfan II	10	
72-54-8	4,4´-DDD	11	
1031-07-8	Endosulfan sulfate	10	
50-29-3	4,4´-DDT	9.8	
72-43-5	Methoxychlor	52	
53494-70-5	Endrin ketone	10	
7421-93-4	Endrin aldehyde	10	
5103-71-9	alpha-Chlordane	5.6	
5103-74-2	gamma-Chlordane	5.2	
8001-35-2	Toxaphene	170	U

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCS-69952(2)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: LCS-69952

Sample wt/vol: 30 (g/mL) G Lab File ID: E5J3759R.D

% Moisture: Decanted: (Y/N) Date Received:

Extraction: (Type) SONC Date Extracted: 12/28/2012

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/28/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0

GPC Cleanup:(Y/N) N pH: Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	5.6	
319-85-7	beta-BHC	5.7	
319-86-8	delta-BHC	5.7	
58-89-9	gamma-BHC (Lindane)	5.7	
76-44-8	Heptachlor	6.2	
309-00-2	Aldrin	5.6	
1024-57-3	Heptachlor epoxide	5.6	
959-98-8	Endosulfan I	5.1	
60-57-1	Dieldrin	11	
72-55-9	4,4´-DDE	11	
72-20-8	Endrin	11	
33213-65-9	Endosulfan II	10	
72-54-8	4,4´-DDD	12	
1031-07-8	Endosulfan sulfate	10	
50-29-3	4,4´-DDT	11	
72-43-5	Methoxychlor	66	
53494-70-5	Endrin ketone	12	
7421-93-4	Endrin aldehyde	11	
5103-71-9	alpha-Chlordane	5.6	
5103-74-2	gamma-Chlordane	5.8	
8001-35-2	Toxaphene	170	U

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
SB-15(5-6)MS(1)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L2631-01AMS

Sample wt/vol: 30.1 (g/mL) G Lab File ID: E5J3761F.D

% Moisture: 27 Decanted: (Y/N) N Date Received: 12/21/2012

Extraction: (Type) SONC Date Extracted: 12/28/2012

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/28/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0

GPC Cleanup:(Y/N) N pH: Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	5.9	
319-85-7	beta-BHC	6.3	
319-86-8	delta-BHC	6.1	
58-89-9	gamma-BHC (Lindane)	5.9	
76-44-8	Heptachlor	7.0	
309-00-2	Aldrin	6.1	
1024-57-3	Heptachlor epoxide	5.7	
959-98-8	Endosulfan I	5.3	
60-57-1	Dieldrin	12	
72-55-9	4,4´-DDE	11	
72-20-8	Endrin	12	
33213-65-9	Endosulfan II	10	
72-54-8	4,4´-DDD	11	
1031-07-8	Endosulfan sulfate	11	
50-29-3	4,4´-DDT	12	
72-43-5	Methoxychlor	60	
53494-70-5	Endrin ketone	10	
7421-93-4	Endrin aldehyde	11	
5103-71-9	alpha-Chlordane	6.0	
5103-74-2	gamma-Chlordane	5.2	
8001-35-2	Toxaphene	230	U

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
SB-15(5-6)MS(2)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L2631-01AMS

Sample wt/vol: 30.1 (g/mL) G Lab File ID: E5J3761R.D

% Moisture: 27 Decanted: (Y/N) N Date Received: 12/21/2012

Extraction: (Type) SONC Date Extracted: 12/28/2012

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/28/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0

GPC Cleanup:(Y/N) N pH: Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	6.3	
319-85-7	beta-BHC	6.2	
319-86-8	delta-BHC	6.8	
58-89-9	gamma-BHC (Lindane)	6.6	
76-44-8	Heptachlor	7.0	
309-00-2	Aldrin	6.2	
1024-57-3	Heptachlor epoxide	6.1	
959-98-8	Endosulfan I	6.1	
60-57-1	Dieldrin	13	
72-55-9	4,4´-DDE	13	
72-20-8	Endrin	14	
33213-65-9	Endosulfan II	12	
72-54-8	4,4´-DDD	13	
1031-07-8	Endosulfan sulfate	11	
50-29-3	4,4´-DDT	15	
72-43-5	Methoxychlor	84	
53494-70-5	Endrin ketone	13	
7421-93-4	Endrin aldehyde	12	
5103-71-9	alpha-Chlordane	6.1	
5103-74-2	gamma-Chlordane	4.3	
8001-35-2	Toxaphene	230	U

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
SB-15(5-6)MSD(1)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L2631-01AMSD

Sample wt/vol: 30.2 (g/mL) G Lab File ID: E5J3762F.D

% Moisture: 27 Decanted: (Y/N) N Date Received: 12/21/2012

Extraction: (Type) SONC Date Extracted: 12/28/2012

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/28/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0

GPC Cleanup:(Y/N) N pH: Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	5.8	
319-85-7	beta-BHC	6.4	
319-86-8	delta-BHC	5.9	
58-89-9	gamma-BHC (Lindane)	5.7	
76-44-8	Heptachlor	6.4	
309-00-2	Aldrin	5.7	
1024-57-3	Heptachlor epoxide	5.5	
959-98-8	Endosulfan I	5.2	
60-57-1	Dieldrin	11	
72-55-9	4,4´-DDE	11	
72-20-8	Endrin	11	
33213-65-9	Endosulfan II	10	
72-54-8	4,4´-DDD	11	
1031-07-8	Endosulfan sulfate	9.7	
50-29-3	4,4´-DDT	11	
72-43-5	Methoxychlor	58	
53494-70-5	Endrin ketone	9.6	
7421-93-4	Endrin aldehyde	10	
5103-71-9	alpha-Chlordane	5.6	
5103-74-2	gamma-Chlordane	5.2	
8001-35-2	Toxaphene	230	U

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
SB-15(5-6)MSD(2)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L2631-01AMSD

Sample wt/vol: 30.2 (g/mL) G Lab File ID: E5J3762R.D

% Moisture: 27 Decanted: (Y/N) N Date Received: 12/21/2012

Extraction: (Type) SONC Date Extracted: 12/28/2012

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/28/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0

GPC Cleanup:(Y/N) N pH: Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	6.0	
319-85-7	beta-BHC	6.5	
319-86-8	delta-BHC	6.5	
58-89-9	gamma-BHC (Lindane)	6.4	
76-44-8	Heptachlor	6.7	
309-00-2	Aldrin	5.8	
1024-57-3	Heptachlor epoxide	5.9	
959-98-8	Endosulfan I	5.7	
60-57-1	Dieldrin	12	
72-55-9	4,4´-DDE	12	
72-20-8	Endrin	12	
33213-65-9	Endosulfan II	11	
72-54-8	4,4´-DDD	12	
1031-07-8	Endosulfan sulfate	11	
50-29-3	4,4´-DDT	14	
72-43-5	Methoxychlor	79	
53494-70-5	Endrin ketone	13	
7421-93-4	Endrin aldehyde	11	
5103-71-9	alpha-Chlordane	5.8	
5103-74-2	gamma-Chlordane	5.2	
8001-35-2	Toxaphene	230	U

2P - FORM II PEST-2

SOIL PESTICIDE SURROGATE RECOVERY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

GC Column(1): CLPPest ID: 0.53 (mm) GC Column(2): CLPPestII ID: 0.53 (mm)

	EPA SAMPLE NO.	TCX 1 %REC	#	TCX 2 %REC	#	DCB 1 %REC	#	DCB 2 %REC	#	OTHER (1)	OTHER (2)	TOT OUT
01	MB-69952	81		88		76		84				0
02	LCS-69952	80		84		75		83				0
03	SB-15(5-6)	68		72		51	*	69				1
04	SB-15(5-6)MS	69		70		56		69				0
05	SB-15(5-6)MSD	65		65		55		65				0
06	SB-16(9-10)	66		66		54	*	66				1
07	SB-17(8-9)	66		66		57		68				0
08	SB-18(6-7)	66		65		57		65				0
09	SB-19(7-8)	70		71		60		70				0

	QC LIMITS
TCX = Tetrachloro-m-xylene	(14-113)
DCB = Decachlorobiphenyl	(55-130)

Column to be used to flag recovery values

* Values outside of QC limits

D Surrogate diluted out

3H - FORM III PEST-2

SOIL PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

Matrix Spike - EPA Sample No.: SB-15(5-6)

Instrument ID: E5 GC Column : CLPPest ID: 0.53 (mm)

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS %REC	#	QC. LIMITS REC.
alpha-BHC	9.0963	0.0000	5.9469	65		60-125
beta-BHC	9.0963	0.0000	6.3298	70		60-125
delta-BHC	9.0963	0.0000	6.0976	67		55-130
gamma-BHC (Lindane)	9.0963	0.0000	5.9235	65		60-125
Heptachlor	9.0963	0.0000	7.0275	77		50-140
Aldrin	9.0963	0.0000	6.1316	67		45-140
Heptachlor epoxide	9.0963	0.0000	5.6996	63	*	65-130
Endosulfan I	9.0963	0.0000	5.3443	59		15-135
Dieldrin	18.1913	0.0000	11.6102	64	*	65-125
4,4´-DDE	18.1913	0.0000	11.1874	61	*	70-125
Endrin	18.1913	0.0000	11.7235	64		60-135
Endosulfan II	18.1913	0.0000	10.3508	57		35-140
4,4´-DDD	18.1913	0.0000	11.4735	63		30-135
Endosulfan sulfate	18.1913	0.0000	10.6898	59	*	60-135
4,4´-DDT	18.1913	0.0000	11.9701	66		45-140
Methoxychlor	90.9594	0.0000	60.2768	66		55-145
Endrin ketone	18.1913	0.0000	10.3646	57	*	65-135
Endrin aldehyde	18.1913	0.0000	10.7705	59		35-145
alpha-Chlordane	9.0963	0.0000	5.9626	66		65-120
gamma-Chlordane	9.0963	0.0000	5.2391	58	*	65-125

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD %REC	#	%RPD	#	QC LIMITS RPD	QC LIMITS REC.
alpha-BHC	9.0662	5.7526	63		3		0-30	60-125
beta-BHC	9.0662	6.3578	70		1		0-30	60-125
delta-BHC	9.0662	5.8590	65		4		0-30	55-130
gamma-BHC (Lindane)	9.0662	5.7060	63		3		0-30	60-125
Heptachlor	9.0662	6.3909	70		9		0-30	50-140
Aldrin	9.0662	5.7209	63		7		0-30	45-140
Heptachlor epoxide	9.0662	5.4932	61	*	3		0-30	65-130
Endosulfan I	9.0662	5.2121	57		2		0-30	15-135
Dieldrin	18.1311	11.2241	62	*	3		0-30	65-125
4,4´-DDE	18.1311	11.0373	61	*	1		0-30	70-125
Endrin	18.1311	11.3106	62		3		0-30	60-135
Endosulfan II	18.1311	9.9846	55		3		0-30	35-140
4,4´-DDD	18.1311	11.0021	61		4		0-30	30-135
Endosulfan sulfate	18.1311	9.7227	54	*	9		0-30	60-135
4,4´-DDT	18.1311	11.0064	61		8		0-30	45-140
Methoxychlor	90.6582	57.8631	64		4		0-30	55-145
Endrin ketone	18.1311	9.6474	53	*	7		0-30	65-135
Endrin aldehyde	18.1311	10.1809	56		5		0-30	35-145
alpha-Chlordane	9.0662	5.6344	62	*	5		0-30	65-120
gamma-Chlordane	9.0662	5.2249	58	*	0		0-30	65-125

3H - FORM III PEST-2

SOIL PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

Matrix Spike - EPA Sample No.: SB-15(5-6)

Instrument ID: E5 GC Column : CLPPest ID: 0.53 (mm)

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 20 outside limits

Spike Recovery: 13 out of 40 outside limits

COMMENTS:

3H - FORM III PEST-2

SOIL PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

Matrix Spike - EPA Sample No.: SB-15(5-6)

Instrument ID: E5 GC Column : CLPPestII ID: 0.53 (mm)

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS %REC	#	QC. LIMITS REC.
alpha-BHC	9.0963	0.0000	6.3338	70		60-125
beta-BHC	9.0963	0.0000	6.1928	68		60-125
delta-BHC	9.0963	0.0000	6.8263	75		55-130
gamma-BHC (Lindane)	9.0963	0.0000	6.5771	72		60-125
Heptachlor	9.0963	0.0000	7.0463	77		50-140
Aldrin	9.0963	0.0000	6.1620	68		45-140
Heptachlor epoxide	9.0963	0.0000	6.1202	67		65-130
Endosulfan I	9.0963	0.0000	6.0787	67		15-135
Dieldrin	18.1913	0.0000	13.0092	72		65-125
4,4´-DDE	18.1913	0.0000	12.5643	69	*	70-125
Endrin	18.1913	0.0000	13.5165	74		60-135
Endosulfan II	18.1913	0.0000	11.6540	64		35-140
4,4´-DDD	18.1913	0.0000	13.0428	72		30-135
Endosulfan sulfate	18.1913	0.0000	11.1526	61		60-135
4,4´-DDT	18.1913	0.0000	15.2810	84		45-140
Methoxychlor	90.9594	0.0000	83.6990	92		55-145
Endrin ketone	18.1913	0.0000	13.3792	74		65-135
Endrin aldehyde	18.1913	0.0000	12.3205	68		35-145
alpha-Chlordane	9.0963	0.0000	6.1461	68		65-120
gamma-Chlordane	9.0963	0.0000	4.3341	48	*	65-125

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD %REC	#	%RPD	#	QC LIMITS RPD	QC LIMITS REC.
alpha-BHC	9.0662	6.0097	66		5		0-30	60-125
beta-BHC	9.0662	6.4835	72		5		0-30	60-125
delta-BHC	9.0662	6.5447	72		4		0-30	55-130
gamma-BHC (Lindane)	9.0662	6.4179	71		2		0-30	60-125
Heptachlor	9.0662	6.7166	74		4		0-30	50-140
Aldrin	9.0662	5.7987	64		6		0-30	45-140
Heptachlor epoxide	9.0662	5.8794	65	*	4		0-30	65-130
Endosulfan I	9.0662	5.7186	63		6		0-30	15-135
Dieldrin	18.1311	11.8263	65		9		0-30	65-125
4,4´-DDE	18.1311	11.5347	64	*	8		0-30	70-125
Endrin	18.1311	12.4537	69		8		0-30	60-135
Endosulfan II	18.1311	10.8539	60		7		0-30	35-140
4,4´-DDD	18.1311	12.0608	67		7		0-30	30-135
Endosulfan sulfate	18.1311	10.6487	59	*	4		0-30	60-135
4,4´-DDT	18.1311	13.6991	76		11		0-30	45-140
Methoxychlor	90.6582	79.4743	88		5		0-30	55-145
Endrin ketone	18.1311	12.5331	69		6		0-30	65-135
Endrin aldehyde	18.1311	11.4455	63		7		0-30	35-145
alpha-Chlordane	9.0662	5.8215	64	*	5		0-30	65-120
gamma-Chlordane	9.0662	5.1853	57	*	18		0-30	65-125

3H - FORM III PEST-2

SOIL PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

Matrix Spike - EPA Sample No.: SB-15(5-6)

Instrument ID: E5 GC Column : CLPPestII ID: 0.53 (mm)

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 20 outside limits

Spike Recovery: 7 out of 40 outside limits

COMMENTS:

3M - FORM III PEST-3

SOIL PESTICIDE LABORATORY CONTROL SAMPLE RECOVERY

EPA SAMPLE NO.

LCS-69952

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

Lab Sample ID: LCS-69952 LCS Lot No.: A085100

Date Extracted: 12/28/2012 Date Analyzed (1): 12/28/2012

Instrument ID (1): E5 GC Column(1): CLPPest ID: 0.53 (mm)

COMPOUND	AMOUNT ADDED (UG/KG)	AMOUNT RECOVERED (UG/KG)	%REC #	QC LIMITS
alpha-BHC	6.6670	5.3805	81	60-125
beta-BHC	6.6670	5.6156	84	60-125
delta-BHC	6.6670	5.4050	81	55-130
gamma-BHC (Lindane)	6.6670	5.3713	81	60-125
Heptachlor	6.6670	5.3175	80	50-140
Aldrin	6.6670	5.3168	80	45-140
Heptachlor epoxide	6.6670	5.3434	80	65-130
Endosulfan I	6.6670	5.0674	76	15-135
Dieldrin	13.3330	10.7266	80	65-125
4,4´-DDE	13.3330	10.5900	79	70-125
Endrin	13.3330	10.7258	80	60-135
Endosulfan II	13.3330	10.1101	76	35-140
4,4´-DDD	13.3330	11.0164	83	30-135
Endosulfan sulfate	13.3330	10.4343	78	60-135
4,4´-DDT	13.3330	9.7859	73	45-140
Methoxychlor	66.6670	51.6381	77	55-145
Endrin ketone	13.3330	10.1139	76	65-135
Endrin aldehyde	13.3330	10.2836	77	35-145
alpha-Chlordane	6.6670	5.5568	83	65-120
gamma-Chlordane	6.6670	5.1635	77	65-125

Instrument ID (2): E5 GC Column(2): CLPPestII ID: 0.53 (mm)

Date Analyzed (2): 12/28/2012

COMPOUND	AMOUNT ADDED (UG/KG)	AMOUNT RECOVERED (UG/KG)	%REC #	QC LIMITS
alpha-BHC	6.6670	5.6260	84	60-125
beta-BHC	6.6670	5.6905	85	60-125
delta-BHC	6.6670	5.7308	86	55-130
gamma-BHC (Lindane)	6.6670	5.6910	85	60-125

COMMENTS:

som12.12.17.A

3M - FORM III PEST-3

SOIL PESTICIDE LABORATORY CONTROL SAMPLE RECOVERY

EPA SAMPLE NO.

LCS-69952

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

Lab Sample ID: LCS-69952 LCS Lot No.: A085100

Date Extracted: 12/28/2012 Date Analyzed (1): 12/28/2012

Heptachlor	6.6670	6.1983	93	50-140
Aldrin	6.6670	5.6115	84	45-140
Heptachlor epoxide	6.6670	5.6184	84	65-130
Endosulfan I	6.6670	5.1438	77	15-135
Dieldrin	13.3330	11.1712	84	65-125
4,4´-DDE	13.3330	11.0009	83	70-125
Endrin	13.3330	11.0980	83	60-135
Endosulfan II	13.3330	10.2897	77	35-140
4,4´-DDD	13.3330	11.5140	86	30-135
Endosulfan sulfate	13.3330	10.2203	77	60-135
4,4´-DDT	13.3330	11.0935	83	45-140
Methoxychlor	66.6670	65.5074	98	55-145
Endrin ketone	13.3330	11.5518	87	65-135
Endrin aldehyde	13.3330	10.5924	79	35-145
alpha-Chlordane	6.6670	5.5627	83	65-120
gamma-Chlordane	6.6670	5.7817	87	65-125

Column to be used to flag recovery values with an asterisk

* Values outside of QC limits

LCS Recovery: 0 out of 40 outside limits.

COMMENTS:

4E - FORM IV PEST

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

MB-69952

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

Lab File ID: E5J3758F.D / E5J3758R.D Lab Sample ID: MB-69952

Matrix: (SOIL/SED/WATER) SOIL Extraction: (Type) SONC Date Extracted: 12/28/2012

Sulfur Cleanup: (Y/N) Y GPC Cleanup:(Y/N) N

Date Analyzed (1): 12/28/2012 Date Analyzed (2): 12/28/2012

Time Analyzed (1): 15:04 Time Analyzed (2): 15:04

Instrument ID (1): E5 Instrument ID (2): E5

GC Column(1): CLPPest ID: 0.53 (mm) GC Column(2): CLPPestII ID: 0.53 (mm)

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED (1)	DATE ANALYZED (2)
01	LCS-69952	LCS-69952	12/28/2012	12/28/2012
02	SB-15(5-6)	L2631-01A	12/28/2012	12/28/2012
03	SB-15(5-6)MS	L2631-01AMS	12/28/2012	12/28/2012
04	SB-15(5-6)MSD	L2631-01AMSD	12/28/2012	12/28/2012
05	SB-16(9-10)	L2631-07A	12/28/2012	12/28/2012
06	SB-17(8-9)	L2631-13A	12/28/2012	12/28/2012
07	SB-18(6-7)	L2631-15A	12/28/2012	12/28/2012
08	SB-19(7-8)	L2631-19A	12/28/2012	12/28/2012

COMMENTS:



SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

* PCB Organics *

REPORT NARRATIVE

Spectrum Analytical, Inc. Featuring Hanibal Technology, RI Division.

Client : ARCADIS U.S., Inc.

Project: S&S Dry Cleaners & Dyers

Laboratory Workorder / SDG #: L2631

SW846 8082A, PCB by GC-ECD

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code: SW846 8082A

IV. PREPARATION

Soil Samples were prepared following procedures in laboratory test code: SW3550

V. INSTRUMENTATION

The following instrumentation was used

Instrument Code: E2
Instrument Type: GC-ECD
Description: HP5890 II +
Manufacturer: Hewlett-Packard
Model: 5890
GC Column used: 30 m X 0.53 mm ID [0.50 um thickness] CLPPest capillary column.

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

Surrogate standard percent recoveries were within the QC limits.

D. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits.

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

Matrix spikes were performed on samples: SB-15(5-6) (L2631-01AMS) and SB-15(5-6) (L2631-01AMSD).

Percent recoveries were within the QC limits.

Replicate RPDs were within the advisory QC limits.

E. Dilutions:

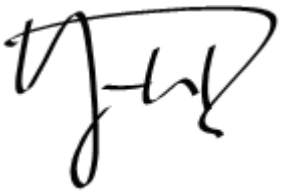
No sample in this SDG required analysis at dilution.

F. Samples:

The lower concentration between the primary and confirmatory GC column concentrations is reported due to the presence of interferences unless otherwise indicated. P flags are assigned to compounds when D% between the two columns are greater than 40%.

No other unusual occurrences were noted during sample analysis.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.



Signed:_____ _____

Date:_____1/7/2013_____

Data Flag/Qualifiers:

U Not Detected. This compound was analyzed-for but not detected. For most analyses the reporting limit (lowest standard concentration) is the value listed. For Department of Defense programs, this is the Limit of Detection (LOD).

J This flag indicates an estimated value due to either
- the compound was detected below the reporting limit, or
- estimated concentration for Tentatively Identified Compound

B This flag indicates the compound was also detected in the associated Method Blank. The B flag has an alternative meaning for Inorganics analyses reported using CLP ILM-type metals forms, indicating a "trace" concentration below the reporting limit and equal to or above the detection limit.

D For Organics analysis, this flag indicates the compound concentration was obtained from a secondary dilution analysis

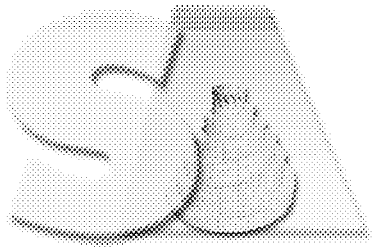
E This flag indicates the compound concentration exceeded the Calibration Range. The E flag has an alternative meaning for Inorganics analyses reported using CLP metals forms, indicating an estimated concentration due to the presence of interferences, as determined by the serial dilution analysis.

P This flag is used for pesticides/PCB/herbicide compound when there is a greater than 40% difference for detected concentration between the two GC columns used for primary and confirmation analyses. This difference typically indicates an interference, causing one value to be unusually high. The **lower** of the two values is generally reported on the Form 1, and both values reported on the Form 10.

A Used to flag semivolatile organic Tentatively Identified Compound library search results for compounds identified as aldol condensation byproducts.

N Used to flag results for volatile and semivolatile Organics analysis Tentatively Identified Compounds where an analyte has passed the identification criteria, and is considered to be positively identified. For Inorganics analysis the N flag indicates the matrix spike recovery falls outside of the control limit.

* For Inorganics analysis the * flag indicates Relative Percent Difference for duplicate analyses is outside of the control limit.



Sample ID Suffixes

DL Diluted analysis. The sample was diluted and reanalyzed. The DL may be followed by a digit if more than one diluted reanalysis is provided. The DL suffix is not attached to an analysis initially performed at dilution, only to reanalyses performed at dilution

RE Reanalysis. Appended to the client sample ID to indicate a reextraction and reanalysis or a reanalysis of the original sample extract.

RA Reanalysis. Appended to the laboratory sample ID indicates a reanalysis of the original sample extract.

RX Reextraction. Appended to the laboratory sample ID indicates a reextraction of the sample.

MS Matrix Spike.

MSD Matrix Spike Duplicate

DUP Duplicate analysis

SD Serial Dilution

PS Post-digestion or Post-distillation spike. For metals or inorganic analyses

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-15(5-6)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L2631-01A

Sample wt/vol: 30.6 (g/mL) G Lab File ID: E2L7926F.D/E2L7926R.D

% Moisture: 27 Decanted: (Y/N) N Date Received: 12/21/2012

Extraction: (Type) SONC Date Extracted: 12/28/2012

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/28/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0

GPC Cleanup:(Y/N) N pH: Sulfur Cleanup: (Y/N) Y

Acid Cleanup:(Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	44	U
11104-28-2	Aroclor-1221	44	U
11141-16-5	Aroclor-1232	44	U
53469-21-9	Aroclor-1242	44	U
12672-29-6	Aroclor-1248	44	U
11097-69-1	Aroclor-1254	44	U
11096-82-5	Aroclor-1260	44	U
37324-23-5	Aroclor-1262	44	U
11100-14-4	Aroclor-1268	44	U

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-16(9-10)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L2631-07A

Sample wt/vol: 30.4 (g/mL) G Lab File ID: E2L7929F.D/E2L7929R.D

% Moisture: 21 Decanted: (Y/N) N Date Received: 12/21/2012

Extraction: (Type) SONC Date Extracted: 12/28/2012

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/28/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0

GPC Cleanup:(Y/N) N pH: Sulfur Cleanup: (Y/N) Y

Acid Cleanup:(Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	41	U
11104-28-2	Aroclor-1221	41	U
11141-16-5	Aroclor-1232	41	U
53469-21-9	Aroclor-1242	41	U
12672-29-6	Aroclor-1248	41	U
11097-69-1	Aroclor-1254	41	U
11096-82-5	Aroclor-1260	41	U
37324-23-5	Aroclor-1262	41	U
11100-14-4	Aroclor-1268	41	U

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-17(8-9)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L2631-13A

Sample wt/vol: 30.4 (g/mL) G Lab File ID: E2L7930F.D/E2L7930R.D

% Moisture: 19 Decanted: (Y/N) N Date Received: 12/21/2012

Extraction: (Type) SONC Date Extracted: 12/28/2012

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/28/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0

GPC Cleanup:(Y/N) N pH: Sulfur Cleanup: (Y/N) Y

Acid Cleanup:(Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	40	U
11104-28-2	Aroclor-1221	40	U
11141-16-5	Aroclor-1232	40	U
53469-21-9	Aroclor-1242	40	U
12672-29-6	Aroclor-1248	40	U
11097-69-1	Aroclor-1254	40	U
11096-82-5	Aroclor-1260	40	U
37324-23-5	Aroclor-1262	40	U
11100-14-4	Aroclor-1268	40	U

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-18(6-7)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L2631-15A

Sample wt/vol: 30.4 (g/mL) G Lab File ID: E2L7931F.D/E2L7931R.D

% Moisture: 27 Decanted: (Y/N) N Date Received: 12/21/2012

Extraction: (Type) SONC Date Extracted: 12/28/2012

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/28/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0

GPC Cleanup:(Y/N) N pH: Sulfur Cleanup: (Y/N) Y

Acid Cleanup:(Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	44	U
11104-28-2	Aroclor-1221	44	U
11141-16-5	Aroclor-1232	44	U
53469-21-9	Aroclor-1242	44	U
12672-29-6	Aroclor-1248	44	U
11097-69-1	Aroclor-1254	44	U
11096-82-5	Aroclor-1260	44	U
37324-23-5	Aroclor-1262	44	U
11100-14-4	Aroclor-1268	44	U

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-19(7-8)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L2631-19A

Sample wt/vol: 30.3 (g/mL) G Lab File ID: E2L7932F.D/E2L7932R.D

% Moisture: 22 Decanted: (Y/N) N Date Received: 12/21/2012

Extraction: (Type) SONC Date Extracted: 12/28/2012

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/28/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0

GPC Cleanup:(Y/N) N pH: Sulfur Cleanup: (Y/N) Y

Acid Cleanup:(Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	42	U
11104-28-2	Aroclor-1221	42	U
11141-16-5	Aroclor-1232	42	U
53469-21-9	Aroclor-1242	42	U
12672-29-6	Aroclor-1248	42	U
11097-69-1	Aroclor-1254	42	U
11096-82-5	Aroclor-1260	42	U
37324-23-5	Aroclor-1262	42	U
11100-14-4	Aroclor-1268	42	U

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MB-69953

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: MB-69953

Sample wt/vol: 30.0 (g/mL) G Lab File ID: E2L7924F.D/E2L7924R.D

% Moisture: Decanted: (Y/N) Date Received:

Extraction: (Type) SONC Date Extracted: 12/28/2012

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/28/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0

GPC Cleanup:(Y/N) N pH: Sulfur Cleanup: (Y/N) Y

Acid Cleanup:(Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	33	U
11104-28-2	Aroclor-1221	33	U
11141-16-5	Aroclor-1232	33	U
53469-21-9	Aroclor-1242	33	U
12672-29-6	Aroclor-1248	33	U
11097-69-1	Aroclor-1254	33	U
11096-82-5	Aroclor-1260	33	U
37324-23-5	Aroclor-1262	33	U
11100-14-4	Aroclor-1268	33	U

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCS-69953(1)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: LCS-69953

Sample wt/vol: 30 (g/mL) G Lab File ID: E2L7925F.D

% Moisture: Decanted: (Y/N) Date Received:

Extraction: (Type) SONC Date Extracted: 12/28/2012

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/28/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0

GPC Cleanup:(Y/N) N pH: Sulfur Cleanup: (Y/N) Y

Acid Cleanup:(Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	100	
11104-28-2	Aroclor-1221	33	U
11141-16-5	Aroclor-1232	33	U
53469-21-9	Aroclor-1242	33	U
12672-29-6	Aroclor-1248	33	U
11097-69-1	Aroclor-1254	33	U
11096-82-5	Aroclor-1260	100	
37324-23-5	Aroclor-1262	33	U
11100-14-4	Aroclor-1268	33	U

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCS-69953(2)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: LCS-69953

Sample wt/vol: 30 (g/mL) G Lab File ID: E2L7925R.D

% Moisture: Decanted: (Y/N) Date Received:

Extraction: (Type) SONC Date Extracted: 12/28/2012

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/28/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0

GPC Cleanup:(Y/N) N pH: Sulfur Cleanup: (Y/N) Y

Acid Cleanup:(Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	110	
11104-28-2	Aroclor-1221	33	U
11141-16-5	Aroclor-1232	33	U
53469-21-9	Aroclor-1242	33	U
12672-29-6	Aroclor-1248	33	U
11097-69-1	Aroclor-1254	33	U
11096-82-5	Aroclor-1260	110	
37324-23-5	Aroclor-1262	33	U
11100-14-4	Aroclor-1268	33	U

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
SB-15(5-6)MS(1)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L2631-01AMS

Sample wt/vol: 30.1 (g/mL) G Lab File ID: E2L7927F.D

% Moisture: 27 Decanted: (Y/N) N Date Received: 12/21/2012

Extraction: (Type) SONC Date Extracted: 12/28/2012

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/28/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0

GPC Cleanup:(Y/N) N pH: Sulfur Cleanup: (Y/N) Y

Acid Cleanup:(Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	120	
11104-28-2	Aroclor-1221	45	U
11141-16-5	Aroclor-1232	45	U
53469-21-9	Aroclor-1242	45	U
12672-29-6	Aroclor-1248	45	U
11097-69-1	Aroclor-1254	45	U
11096-82-5	Aroclor-1260	120	
37324-23-5	Aroclor-1262	45	U
11100-14-4	Aroclor-1268	45	U

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
SB-15(5-6)MS(2)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L2631-01AMS

Sample wt/vol: 30.1 (g/mL) G Lab File ID: E2L7927R.D

% Moisture: 27 Decanted: (Y/N) N Date Received: 12/21/2012

Extraction: (Type) SONC Date Extracted: 12/28/2012

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/28/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0

GPC Cleanup:(Y/N) N pH: Sulfur Cleanup: (Y/N) Y

Acid Cleanup:(Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	120	
11104-28-2	Aroclor-1221	45	U
11141-16-5	Aroclor-1232	45	U
53469-21-9	Aroclor-1242	45	U
12672-29-6	Aroclor-1248	45	U
11097-69-1	Aroclor-1254	45	U
11096-82-5	Aroclor-1260	130	
37324-23-5	Aroclor-1262	45	U
11100-14-4	Aroclor-1268	45	U

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
SB-15(5-6)MSD(1)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L2631-01AMSD

Sample wt/vol: 30.2 (g/mL) G Lab File ID: E2L7928F.D

% Moisture: 27 Decanted: (Y/N) N Date Received: 12/21/2012

Extraction: (Type) SONC Date Extracted: 12/28/2012

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/28/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0

GPC Cleanup:(Y/N) N pH: Sulfur Cleanup: (Y/N) Y

Acid Cleanup:(Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	130	
11104-28-2	Aroclor-1221	45	U
11141-16-5	Aroclor-1232	45	U
53469-21-9	Aroclor-1242	45	U
12672-29-6	Aroclor-1248	45	U
11097-69-1	Aroclor-1254	45	U
11096-82-5	Aroclor-1260	120	
37324-23-5	Aroclor-1262	45	U
11100-14-4	Aroclor-1268	45	U

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
SB-15(5-6)MSD(2)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: L2631-01AMSD

Sample wt/vol: 30.2 (g/mL) G Lab File ID: E2L7928R.D

% Moisture: 27 Decanted: (Y/N) N Date Received: 12/21/2012

Extraction: (Type) SONC Date Extracted: 12/28/2012

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/28/2012

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0

GPC Cleanup:(Y/N) N pH: Sulfur Cleanup: (Y/N) Y

Acid Cleanup:(Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	130	
11104-28-2	Aroclor-1221	45	U
11141-16-5	Aroclor-1232	45	U
53469-21-9	Aroclor-1242	45	U
12672-29-6	Aroclor-1248	45	U
11097-69-1	Aroclor-1254	45	U
11096-82-5	Aroclor-1260	140	
37324-23-5	Aroclor-1262	45	U
11100-14-4	Aroclor-1268	45	U

2R - FORM II ARO-2

SOIL AROCLOR SURROGATE RECOVERY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

GC Column(1): CLPPest ID: 0.53 (mm) GC Column(2): CLPPestII ID: 0.53 (mm)

	EPA SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	MB-69953	89	98	84	85			0
02	LCS-69953	88	96	82	85			0
03	SB-15(5-6)	78	85	74	77			0
04	SB-15(5-6)MS	73	79	68	73			0
05	SB-15(5-6)MSD	76	83	70	76			0
06	SB-16(9-10)	75	81	75	75			0
07	SB-17(8-9)	75	81	75	75			0
08	SB-18(6-7)	73	79	70	73			0
09	SB-19(7-8)	78	83	78	78			0

	QC LIMITS
TCX = Tetrachloro-m-xylene	(34-147)
DCB = Decachlorobiphenyl	(60-125)

Column to be used to flag recovery values

* Values outside of QC limits

D Surrogate diluted out

som12.12.17.A

3K - FORM III ARO-2

SOIL AROCLOR MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

Matrix Spike - EPA Sample No.: SB-15(5-6)

Instrument ID: E2 GC Column : CLPPest ID: 0.53 (mm)

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS %REC	#	QC. LIMITS REC.
AR1016	181.9174	0.0000	117.9855	65		40-140
AR1260	181.9174	0.0000	117.0111	64		60-130

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD %REC	#	%RPD	#	QC LIMITS RPD	QC LIMITS REC.
AR1016	181.3150	125.0336	69		6		0-30	40-140
AR1260	181.3150	122.5499	68		5		0-30	60-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 2 outside limits

Spike Recovery: 0 out of 4 outside limits

COMMENTS:

3K - FORM III ARO-2

SOIL AROCLOR MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

Matrix Spike - EPA Sample No.: SB-15(5-6)

Instrument ID: E2 GC Column : CLPPestII ID: 0.53 (mm)

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS %REC	#	QC. LIMITS REC.
AR1016	181.9174	0.0000	122.7850	67		40-140
AR1260	181.9174	0.0000	134.0995	74		60-130

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD %REC	#	%RPD	#	QC LIMITS RPD	QC LIMITS REC.
AR1016	181.3150	129.4649	71		6		0-30	40-140
AR1260	181.3150	139.4649	77		4		0-30	60-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 2 outside limits

Spike Recovery: 0 out of 4 outside limits

COMMENTS:

3P - FORM III ARO-4

SOIL AROCLOR LABORATORY CONTROL SAMPLE RECOVERY

EPA SAMPLE NO.

LCS-69953

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

Lab Sample ID: LCS-69953 LCS Lot No.: A082781

Date Extracted: 12/28/2012 Date Analyzed (1): 12/28/2012

Instrument ID (1): E2 GC Column(1): CLPPest ID: 0.53 (mm)

COMPOUND	AMOUNT ADDED (UG/KG)	AMOUNT RECOVERED (UG/KG)	%REC	#	QC LIMITS
Aroclor-1016	133.3330	104.5923	78		40-140
Aroclor-1260	133.3330	99.6920	75		60-130

Instrument ID (2): E2 GC Column(2): CLPPestII ID: 0.53 (mm)

Date Analyzed (2): 12/28/2012

COMPOUND	AMOUNT ADDED (UG/KG)	AMOUNT RECOVERED (UG/KG)	%REC	#	QC LIMITS
Aroclor-1016	133.3330	109.9816	82		40-140
Aroclor-1260	133.3330	114.6964	86		60-130

Column to be used to flag recovery values with an asterisk

* Values outside of QC limits

LCS Recovery: 0 out of 4 outside limits.

COMMENTS:

som12.12.17.A

4F - FORM IV ARO

AROCLOR METHOD BLANK SUMMARY

EPA SAMPLE NO.

MB-69953

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2631 Mod. Ref No.: SDG No.: SL2631

Lab File ID: E2L7924F.D / E2L7924R.D Lab Sample ID: MB-69953

Matrix: (SOIL/SED/WATER) SOIL Extraction: (Type) SONC Date Extracted: 12/28/2012

Sulfur Cleanup: (Y/N) Y GPC Cleanup:(Y/N) N

Acid Cleanup: (Y/N Y

Date Analyzed (1): 12/28/2012 Date Analyzed (2): 12/28/2012

Time Analyzed (1): 15:39 Time Analyzed (2): 15:39

Instrument ID (1): E2 Instrument ID (2): E2

GC Column(1): CLPPest ID: 0.53 (mm) GC Column(2): CLPPestII ID: 0.53 (mm)

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED (1)	DATE ANALYZED (2)
01	LCS-69953	LCS-69953	12/28/2012	12/28/2012
02	SB-15(5-6)	L2631-01A	12/28/2012	12/28/2012
03	SB-15(5-6)MS	L2631-01AMS	12/28/2012	12/28/2012
04	SB-15(5-6)MSD	L2631-01AMSD	12/28/2012	12/28/2012
05	SB-16(9-10)	L2631-07A	12/28/2012	12/28/2012
06	SB-17(8-9)	L2631-13A	12/28/2012	12/28/2012
07	SB-18(6-7)	L2631-15A	12/28/2012	12/28/2012
08	SB-19(7-8)	L2631-19A	12/28/2012	12/28/2012

COMMENTS:



* Metals *

REPORT NARRATIVE

Spectrum Analytical, Inc. Featuring Hanibal Technology, RI Division.

Client : ARCADIS U.S., Inc.

Project: S&S Dry Cleaners & Dyers

Laboratory Workorder / SDG #: L2631

SW846 6010C, SW846 7471B

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test codes: SW846 6010C, SW846 7471B.

IV. PREPARATION

Soil Samples were prepared following procedures in laboratory test code: SW3050B, SW7471B.

V. INSTRUMENTATION

The following instrumentation was used:

Instrument Code: FIMS1
Instrument Type: CVAA
Description: FIMS
Manufacturer: Perkin-Elmer
Model: FIMS

Instrument Code: OPTIMA3
Instrument Type: ICP
Description: Optima ICP-OES
Manufacturer: Perkin-Elmer
Model: 4300 DV

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for laboratory control samples were within the QC limits.

2. Matrix spike (MS):

Matrix spikes were performed on sample: SB-15(5-6) (L2631-01BMS).

Percent recoveries were within the QC limits with the following exceptions:

SB-15(5-6) (L2631-01BMS), Spike sample recovery is below criteria for Antimony at 58% with criteria of (75-125).

D. Post Digestion Spike (PDS):

Post-digestion spike analysis was performed on sample: SB-15(5-6) (L2631-01BPDS).

SB-15(5-6) (L2631-01BPDS) for Antimony due to recovery of this element outside of QC limits in the matrix spike.

E. Duplicate sample:

Duplicate analyses were performed on sample: SB-15(5-6) (L2631-01BDUP).

Relative percent differences were within the QC limits with the following exceptions:

SB-15(5-6) (L2631-01BDUP), Duplicate analysis not within control limit for Lead.

F. Serial Dilution (SD):

Serial Dilution analyses were performed on sample: SB-15(5-6) (L2631-01BSD).

Percent differences were within the QC limits.

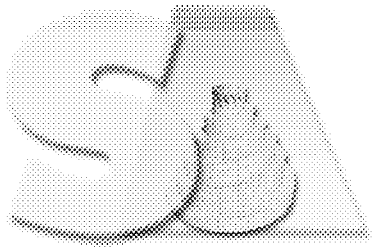
G. Samples:

No other unusual occurrences were noted during sample analysis.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Signed: 

Date: 01/07/13



Data Flag/Qualifiers:

U Not Detected. This compound was analyzed-for but not detected. For most analyses the reporting limit (lowest standard concentration) is the value listed. For Department of Defense programs, this is the Limit of Detection (LOD).

J This flag indicates an estimated value due to either
- the compound was detected below the reporting limit, or
- estimated concentration for Tentatively Identified Compound

B This flag indicates the compound was also detected in the associated Method Blank. The B flag has an alternative meaning for Inorganics analyses reported using CLP ILM-type metals forms, indicating a "trace" concentration below the reporting limit and equal to or above the detection limit.

D For Organics analysis, this flag indicates the compound concentration was obtained from a secondary dilution analysis

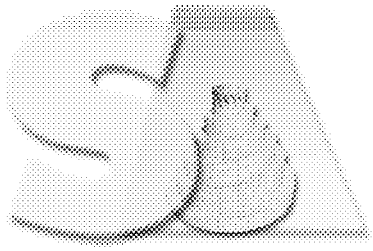
E This flag indicates the compound concentration exceeded the Calibration Range. The E flag has an alternative meaning for Inorganics analyses reported using CLP metals forms, indicating an estimated concentration due to the presence of interferences, as determined by the serial dilution analysis.

P This flag is used for pesticides/PCB/herbicide compound when there is a greater than 40% difference for detected concentration between the two GC columns used for primary and confirmation analyses. This difference typically indicates an interference, causing one value to be unusually high. The **lower** of the two values is generally reported on the Form 1, and both values reported on the Form 10.

A Used to flag semivolatile organic Tentatively Identified Compound library search results for compounds identified as aldol condensation byproducts.

N Used to flag results for volatile and semivolatile Organics analysis Tentatively Identified Compounds where an analyte has passed the identification criteria, and is considered to be positively identified. For Inorganics analysis the N flag indicates the matrix spike recovery falls outside of the control limit.

* For Inorganics analysis the * flag indicates Relative Percent Difference for duplicate analyses is outside of the control limit.



SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

Sample ID Suffixes

DL Diluted analysis. The sample was diluted and reanalyzed. The DL may be followed by a digit if more than one diluted reanalysis is provided. The DL suffix is not attached to an analysis initially performed at dilution, only to reanalyses performed at dilution

RE Reanalysis. Appended to the client sample ID to indicate a reextraction and reanalysis or a reanalysis of the original sample extract.

RA Reanalysis. Appended to the laboratory sample ID indicates a reanalysis of the original sample extract.

RX Reextraction. Appended to the laboratory sample ID indicates a reextraction of the sample.

MS Matrix Spike.

MSD Matrix Spike Duplicate

DUP Duplicate analysis

SD Serial Dilution

PS Post-digestion or Post-distillation spike. For metals or inorganic analyses

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

SB-15(5-6)

Lab Name: Spectrum Analytical, Inc. Contract: 00266396.00

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL2631

Matrix (soil/water): SOIL Lab Sample ID: L2631-01

Level (low/med): MED Date Received: 12/21/2012

% Solids: 73.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	15600			P
7440-36-0	Antimony	0.59	B	N	P
7440-38-2	Arsenic	8.2			P
7440-39-3	Barium	101			P
7440-41-7	Beryllium	0.73			P
7440-43-9	Cadmium	0.50			P
7440-70-2	Calcium	31600			P
7440-47-3	Chromium	19.3			P
7440-48-4	Cobalt	13.3			P
7440-50-8	Copper	56.7			P
7439-89-6	Iron	34600			P
7439-92-1	Lead	17.4		*	P
7439-95-4	Magnesium	11300			P
7439-96-5	Manganese	566			P
7439-97-6	Mercury	0.029	B		CV
7440-02-0	Nickel	31.1			P
7440-09-7	Potassium	1930			P
7782-49-2	Selenium	0.68	U		P
7440-22-4	Silver	0.26	B		P
7440-23-5	Sodium	153			P
7440-28-0	Thallium	0.24	U		P
7440-62-2	Vanadium	22.2			P
7440-66-6	Zinc	82.5			P

Comments:

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

SB-16(9-10)

Lab Name: Spectrum Analytical, Inc. Contract: 00266396.00

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL2631

Matrix (soil/water): SOIL Lab Sample ID: L2631-07

Level (low/med): MED Date Received: 12/21/2012

% Solids: 78.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	17500			P
7440-36-0	Antimony	0.62	B	N	P
7440-38-2	Arsenic	7.5			P
7440-39-3	Barium	117			P
7440-41-7	Beryllium	0.86			P
7440-43-9	Cadmium	0.52			P
7440-70-2	Calcium	37900			P
7440-47-3	Chromium	20.7			P
7440-48-4	Cobalt	14.7			P
7440-50-8	Copper	40.4			P
7439-89-6	Iron	35500			P
7439-92-1	Lead	15.3		*	P
7439-95-4	Magnesium	12300			P
7439-96-5	Manganese	639			P
7439-97-6	Mercury	0.034	B		CV
7440-02-0	Nickel	31.4			P
7440-09-7	Potassium	2300			P
7782-49-2	Selenium	0.73	U		P
7440-22-4	Silver	0.40	B		P
7440-23-5	Sodium	170			P
7440-28-0	Thallium	0.25	U		P
7440-62-2	Vanadium	25.0			P
7440-66-6	Zinc	82.0			P

Comments:

1 EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET SB-17(8-9)

Lab Name: Spectrum Analytical, Inc. Contract: 00266396.00

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL2631

Matrix (soil/water): SOIL Lab Sample ID: L2631-13

Level (low/med): MED Date Received: 12/21/2012

% Solids: 81.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	9000			P
7440-36-0	Antimony	0.47	B	N	P
7440-38-2	Arsenic	8.1			P
7440-39-3	Barium	34.7			P
7440-41-7	Beryllium	0.41			P
7440-43-9	Cadmium	0.40			P
7440-70-2	Calcium	53400			P
7440-47-3	Chromium	12.1			P
7440-48-4	Cobalt	9.3			P
7440-50-8	Copper	34.3			P
7439-89-6	Iron	25500			P
7439-92-1	Lead	10.5		*	P
7439-95-4	Magnesium	13200			P
7439-96-5	Manganese	584			P
7439-97-6	Mercury	0.025	B		CV
7440-02-0	Nickel	19.2			P
7440-09-7	Potassium	980			P
7782-49-2	Selenium	0.59	U		P
7440-22-4	Silver	0.16	B		P
7440-23-5	Sodium	112			P
7440-28-0	Thallium	0.20	U		P
7440-62-2	Vanadium	17.8			P
7440-66-6	Zinc	51.5			P

Comments:

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

SB-18(6-7)

Lab Name: Spectrum Analytical, Inc. Contract: 00266396.00

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL2631

Matrix (soil/water): SOIL Lab Sample ID: L2631-15

Level (low/med): MED Date Received: 12/21/2012

% Solids: 73.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	16500			P
7440-36-0	Antimony	0.61	B	N	P
7440-38-2	Arsenic	9.5			P
7440-39-3	Barium	102			P
7440-41-7	Beryllium	0.98			P
7440-43-9	Cadmium	0.46			P
7440-70-2	Calcium	30000			P
7440-47-3	Chromium	21.6			P
7440-48-4	Cobalt	16.2			P
7440-50-8	Copper	87.7			P
7439-89-6	Iron	36800			P
7439-92-1	Lead	12.8		*	P
7439-95-4	Magnesium	9020			P
7439-96-5	Manganese	580			P
7439-97-6	Mercury	0.034	B		CV
7440-02-0	Nickel	34.5			P
7440-09-7	Potassium	2270			P
7782-49-2	Selenium	0.84	U		P
7440-22-4	Silver	0.25	B		P
7440-23-5	Sodium	168			P
7440-28-0	Thallium	0.29	U		P
7440-62-2	Vanadium	32.1			P
7440-66-6	Zinc	88.9			P

Comments:

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

SB-19(7-8)

Lab Name: Spectrum Analytical, Inc. Contract: 00266396.00

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL2631

Matrix (soil/water): SOIL Lab Sample ID: L2631-19

Level (low/med): MED Date Received: 12/21/2012

% Solids: 78.1

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	20800			P
7440-36-0	Antimony	1.1	B	N	P
7440-38-2	Arsenic	8.8			P
7440-39-3	Barium	131			P
7440-41-7	Beryllium	1.2			P
7440-43-9	Cadmium	0.61			P
7440-70-2	Calcium	32600			P
7440-47-3	Chromium	23.2			P
7440-48-4	Cobalt	17.5			P
7440-50-8	Copper	54.3			P
7439-89-6	Iron	40400			P
7439-92-1	Lead	11.6		*	P
7439-95-4	Magnesium	8130			P
7439-96-5	Manganese	564			P
7439-97-6	Mercury	0.044			CV
7440-02-0	Nickel	35.2			P
7440-09-7	Potassium	3130			P
7782-49-2	Selenium	0.80	U		P
7440-22-4	Silver	0.12	B		P
7440-23-5	Sodium	309			P
7440-28-0	Thallium	0.27	U		P
7440-62-2	Vanadium	36.6			P
7440-66-6	Zinc	89.5			P

Comments:

U.S. EPA - CLP

7

LABORATORY CONTROL SAMPLE

Lab Name: Spectrum Analytical, Inc. Contract: 00266396.0000

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL2631

Solid LCS Source:

Aqueous LCS Source:

LCS(D) ID:
LCS-69916

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/Kg) True	Found	C	Limits		%R
Aluminum				455.0	473.5		364	546.0	104.1
Antimony				22.8	24.8		18.2	27.3	108.8
Arsenic				22.8	24.5		18.2	27.3	107.5
Barium				455.0	473.6		364	546.0	104.1
Beryllium				11.4	12.0		9.1	13.6	105.3
Cadmium				11.4	12.2		9.1	13.6	107.0
Calcium				1135.0	1120.6		908	1362.0	98.7
Chromium				45.5	46.6		36.4	54.6	102.4
Cobalt				113.5	118.5		90.8	136.2	104.4
Copper				56.5	58.4		45.2	67.8	103.4
Iron				227.5	232.3		182	273.0	102.1
Lead				22.8	23.8		18.2	27.3	104.4
Magnesium				1135.0	1201.4		908	1362.0	105.9
Manganese				113.5	119.7		90.8	136.2	105.5
Nickel				113.5	118.1		90.8	136.2	104.1
Potassium				1135.0	1118.2		908	1362.0	98.5
Selenium				22.8	23.9		18.2	27.3	104.8
Silver				56.5	57.9		42.4	67.8	102.5
Sodium				1135.0	1114.4		908	1362.0	98.2
Thallium				22.8	22.5		18.2	27.3	98.7
Vanadium				113.5	114.4		90.8	136.2	100.8
Zinc				113.5	118.9		90.8	136.2	104.8

7

LABORATORY CONTROL SAMPLE

Lab Name: Spectrum Analytical, Inc. Contract: 00266396.0000

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL2631

Solid LCS Source: LCS(D) ID:

Aqueous LCS Source: **LCS-69974**

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/Kg) True	Found	C	Limits		%R
Mercury				0.8	0.8		0.6	0.9	100.0

U.S. EPA - CLP

5A

SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

SB-15(5-6)S

Lab Name: Spectrum Analytical, Inc. Contract: 00266396.00

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL2631

Matrix (soil/water): SOIL Level (low/med): MED

% Solids for Sample: 73.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Antimony	75-125	14.7		0.59	B	24.3	58	N	P
Arsenic	75-125	33.3		8.2		24.3	103		P
Barium	75-125	560		101		487	94		P
Beryllium	75-125	13.2		0.73		12.1	103		P
Cadmium	75-125	12.2		0.50		12.1	96		P
Chromium	75-125	63.0		19.3		48.7	90		P
Cobalt	75-125	129		13.3		121	95		P
Copper	75-125	103		56.7		60.4	76		P
Lead	75-125	40.5		17.4		24.3	95		P
Nickel	75-125	142		31.1		121	92		P
Selenium	75-125	21.9		0.68	U	24.3	90		P
Silver	75-125	63.9		0.068	B	60.4	106		P
Thallium	75-125	22.0		0.24	U	24.3	90		P
Vanadium	75-125	138		22.2		121	96		P
Zinc	75-125	188		82.5		121	87		P
Mercury	75-125	1.3		0.029	B	1.2	106		CV

Comments:

U.S. EPA - CLP

5B

EPA SAMPLE NO.

POST DIGEST SPIKE SAMPLE RECOVERY

SB-15(5-6)A

Lab Name: Spectrum Analytical, Inc. Contract: 00266396.00

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL2631

Matrix (soil/water): SOIL Level (low/med): MED

Concentration Units (ug/L or mg/kg dry weight): ug/L

Analyte	Control Limit %R	Spike Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Antimony		538.25		11.10	B	455.0	116		P

Comments:

U.S. EPA - CLP

6

DUPLICATES

EPA SAMPLE NO.

SB-15(5-6)D

Lab Name: Spectrum Analytical, Inc. Contract: 00266396.00

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL2631

Matrix (soil/water): SOIL Level (low/med): MED

% Solids for Sample: 73.0 % Solids for Duplicate: 73.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum		15627.3966		14060.0831		10.6		P
Antimony		0.5937	B	0.5528	B	7.1		P
Arsenic		8.1573		8.2974		1.7		P
Barium		100.8588		94.9013		6.1		P
Beryllium	0.3	0.7280		0.6589		10		P
Cadmium	0.3	0.5022		0.4579		9.2		P
Calcium		31605.0319		32131.1998		1.7		P
Chromium		19.2741		17.8460		7.7		P
Cobalt	2.7	13.3053		12.8579		3.4		P
Copper		56.6622		48.6172		15.3		P
Iron		34585.6331		32214.9426		7.1		P
Lead		17.3517		23.6118		30.6	*	P
Magnesium		11294.4851		10989.8864		2.7		P
Manganese		565.5407		564.9645		0.1		P
Nickel		31.1192		26.8285		14.8		P
Potassium		1929.4193		1716.2443		11.7		P
Selenium		0.6800	U	0.6800	U			P
Silver		0.2602	B	0.2899	B	10.8		P
Sodium	53.0	153.4798		165.8497		7.7		P
Thallium		0.2400	U	0.2300	U			P
Vanadium		22.1927		21.9018		1.3		P
Zinc		82.4575		77.7809		5.8		P
Mercury		0.0286	B	0.0338	B	16.7		CV

U.S. EPA - CLP

3

BLANKS

Lab Name: Spectrum Analytical, Inc. Contract: 00266396.0000

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL2631

Preparation Blank Matrix (soil/water): SOIL

Method Blank ID: **MB-69974**

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

FIMS1_130103A

	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		
Analyte		C	01/03/13 12:08	C		C		C		C	M
Mercury	0.028	U	0.028	U					0.002	U	CV

Lab Name: Spectrum Analytical, Inc. Contract: 00266396.0000

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL2631

Preparation Blank Matrix (soil/water): SOIL

Method Blank ID: **MB-69916**

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

OPTIMA3_130102A

Analyte	Initial Calibration Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 01/02/13 9:51	C	01/02/13 10:17	C	01/02/13 10:43	C	Preparation Blank	C	M
Aluminum	66.0	U	66.0	U	66.0	U	66.0	U	1.200	U	P
Antimony	9.3	U	9.3	U	9.3	U	9.3	U	0.480	B	P
Arsenic	4.3	U	4.3	U	4.3	U	4.3	U	0.410	U	P
Barium	1.1	U	1.1	U	1.1	U	1.1	U	0.031	U	P
Beryllium	0.3	U	0.3	U	0.3	U	0.3	U	0.002	U	P
Cadmium	0.9	U	0.9	U	0.9	U	0.9	U	0.015	U	P
Calcium	110.0	U	110.0	U	110.0	U	110.0	U	6.100	U	P
Chromium	0.6	U	0.6	U	0.6	U	0.6	U	0.031	B	P
Cobalt	0.7	U	0.7	U	0.7	U	0.7	U	0.044	U	P
Copper	3.6	U	3.6	U	3.6	U	3.6	U	0.110	U	P
Iron	31.0	U	31.0	U	31.0	U	31.0	U	1.500	U	P
Lead	4.2	U	4.2	U	4.2	U	4.2	U	0.170	U	P
Magnesium	76.0	U	76.0	U	76.0	U	76.0	U	0.630	U	P
Manganese	10.0	U	10.0	U	10.0	U	10.0	U	0.130	U	P
Nickel	0.9	U	0.8	U	0.8	U	0.8	U	0.043	U	P
Potassium	-99.0	B	76.0	U	-92.7	B	-219.0	B	3.400	U	P
Selenium	12.0	U	12.0	U	12.0	U	12.0	U	0.640	U	P
Silver	6.9	U	6.9	U	6.9	U	6.9	U	0.313	B	P
Sodium	-552.3	B	-417.5	B	-558.1	B	-662.6	B	1.100	U	P
Thallium	6.2	U	6.2	U	6.2	U	6.2	U	0.220	U	P
Vanadium	1.1	U	1.1	U	1.1	U	1.1	U	0.060	U	P
Zinc	4.9	U	4.9	U	4.9	U	4.9	U	0.180	U	P

3

BLANKS

Lab Name: Spectrum Analytical, Inc. Contract: 00266396.0000

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SL2631

Preparation Blank Matrix (soil/water): Method Blank ID:

Preparation Blank Concentration Units (ug/L or mg/kg):

OPTIMA3_130102A

Analyte	Initial Calibration Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 01/02/13 11:12	C	01/02/13 11:42	C	01/02/13 12:15	C	Preparation Blank	C	M
Aluminum			66.0	U	66.0	U					P
Antimony			9.3	U	9.3	U					P
Arsenic			4.3	U	4.3	U					P
Barium			1.1	U	1.1	U					P
Beryllium			0.3	U	0.3	U					P
Cadmium			0.9	U	0.9	U					P
Calcium			110.0	U	110.0	U	110.0	U			P
Chromium			0.6	U	0.6	U					P
Cobalt			0.7	U	0.7	U					P
Copper			3.6	U	3.6	U					P
Iron			31.0	U	31.0	U	31.0	U			P
Lead			4.2	U	4.2	U					P
Magnesium			76.0	U	76.0	U					P
Manganese			10.0	U	10.0	U					P
Nickel			0.8	U	0.8	U					P
Potassium			-162.7	B	-247.4	B					P
Selenium			12.0	U	12.0	U					P
Silver			6.9	U	6.9	U					P
Sodium			-802.2	B	-481.7	B					P
Thallium			6.2	U	6.2	U					P
Vanadium			1.1	U	1.1	U					P
Zinc			4.9	U	4.9	U					P

Report Date:
15-Jan-13 09:21

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

☑ Final Report
☐ Re-Issued Report
☐ Revised Report

Laboratory Report

ARCADIS U.S., Inc.
855 Route 146, Suite 210
Clifton Park, NY 12065

Work Order: L2641
Project : S&S Dry Cleaners & Dyers
Project #: 0266396.0000

Attn: Andy Vitolins

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
L2641-01	MW-9 (122712)	Aqueous	27-Dec-12 10:00	28-Dec-12 11:40
L2641-02	TRIP BLANK	Aqueous	27-Dec-12 00:00	28-Dec-12 11:40

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. The results relate only to the samples(s) as received. This report may not be reproduced, except in full, without written approval from Spectrum Analytical.

All applicable NELAC or USEPA CLP requirments have been meet.

Spectrum Analytical (Rhode Island) is accredited under the National Environmental Laboratory Approval Program (NELAP) and DoD Environmental Laboratory Accreditation Program (ELAP), holds Organic and Inorganic contracts under the USEPA CLP Program and is certified under several states. The current list of our laboratory approvals and certifications is available on the Certifications page on our web site at www.spectrum-analytical.com.

Please contact the Laboratory or Technical Director at 401-732-3400 with any questions regarding the data contained in the laboratory report.

Department of Defense	N/A
Connecticut	PH-0153
Delaware	N/A
Florida	E87664
Maine	2007037
Massachusetts	M-RI907
New Hampshire	2631
New Jersey	RI001
New York	11522
North Carolina	581
Rhode Island	LAI00301
USDA	P330-08-00023
USEPA - ISM	EP-W-09-039
USEPA - SOM	EP-W-11-033

NELAP ACCREDITED TNI LABORATORY

LABORATORY ACCREDITATION BUREAU ACCREDITED
DoD ELAP
Certificate # L2247 Testing

Authorized by:

Yihai Ding
Laboratory Director



SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

* Data Summary Pack *

175 Metro Center Boulevard · Warwick, RI 02886-1755 · 401-732-3400 · FAX 401-732-3499
www.spectrum-analytical.com

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

New York State Department of Environmental Conservation
Sample Identification and Analytical Requirements Summary

Project Name : S&S Dry Cleaners & Dyers -- 0266396.0000 **SDG :** L2641

Customer Sample ID	Laboratory Sample ID	Analytical Requirements				
		MSVOA Method #	MSSEMI Method #	GC* Method #	ME	Other
MW-9 (122712)	L2641-01	SW8260_W				
TRIP BLANK	L2641-02	SW8260_W				

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

New York State Department of Environmental Conservation
Sample Preparation and Analysis Summary MSVOA

Project Name : S&S Dry Cleaners & Dyers -- 0266396.0000 **SDG :** L2641

Laboratory Sample ID	Matrix	Date Collected	Date Received By Lab	Date Extracted	Date Analyzed
SW8260_W					
L2641-01A	AQ	12/27/2012	12/28/2012	NA	12/28/2012
L2641-02A	AQ	12/27/2012	12/28/2012	NA	1/8/2013

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

New York State Department of Environmental Conservation
Sample Preparation and Analysis Summary MSVOA

Project Name : S&S Dry Cleaners & Dyers -- 0266396.0000 **SDG :** L2641

Laboratory Sample ID	Matrix	Analytical Protocol	Extraction Method	Low/Medium Level	Dil/Conc Factor
SW8260_W					
L2641-01A	AQ	SW8260_W	NA	LOW	1
L2641-02A	AQ	SW8260_W	NA	LOW	1

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

WorkOrder: L2641

Client ID: MALCOLM_LATHAM
Project: S&S Dry Cleaners & Dyers
WO Name: S&S Dry Cleaners & Dyers
Location: ARCADIS_COHOES, 0266396.0000
Comments: N/A

Case:
SDG:
PO: 00266396.0000

HC Due: 01/15/13
Fax Due:
Fax Report: ☐

Report Level: ASP-B
Special Program:
EDD: EQUIIS_4_NYSDEC

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
L2641-01A	MW-9 (122712)	12/27/2012 10:00	12/28/2012	Aqueous	SW8260_W	/ SOM list, 1ppb ICAL				Y	VOA
L2641-02A	TRIP BLANK	12/27/2012 00:00	12/28/2012	Aqueous	SW8260_W	/ SOM list, 1ppb ICAL				Y	VOA

HF = Fraction logged in but all tests have been placed on hold

HT = Test logged in but has been placed on hold

* Volatiles *

REPORT NARRATIVE

Spectrum Analytical, Inc. Featuring Hanibal Technology, RI Division.

Client : ARCADIS U.S., Inc.

Project: S&S Dry Cleaners & Dyers

Laboratory Workorder / SDG #: L2641

SW846 8260C, VOC by GC-MS

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code: SW846 8260C

IV. PREPARATION

Aqueous Samples were prepared following procedures in laboratory test code: SW5030

V. INSTRUMENTATION

The following instrumentation was used

Instrument Code: V1
Instrument Type: GCMS-VOA
Description: HP5890 II / HP5972
Manufacturer: Hewlett-Packard
Model: 5890 / 5972
GC Column used: 30 m X 0.25 mm ID [1.40 um thickness] DB-624 capillary column.

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

Surrogate standard percent recoveries were within the QC limits.

D. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits.

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

No client-requested MS/MSD analyses were included in this SDG.

E. Internal Standards:

Internal standard peak areas were within the QC limits.

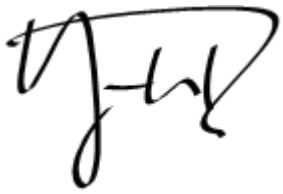
F. Dilutions:

No sample in this SDG required analysis at dilution.

G. Samples:

No other unusual occurrences were noted during sample analysis.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.



Signed:_____ _____

Date:_____1/13/2013_____

Data Flag/Qualifiers:

U Not Detected. This compound was analyzed-for but not detected. For most analyses the reporting limit (lowest standard concentration) is the value listed. For Department of Defense programs, this is the Limit of Detection (LOD).

J This flag indicates an estimated value due to either
- the compound was detected below the reporting limit, or
- estimated concentration for Tentatively Identified Compound

B This flag indicates the compound was also detected in the associated Method Blank. The B flag has an alternative meaning for Inorganics analyses reported using CLP ILM-type metals forms, indicating a "trace" concentration below the reporting limit and equal to or above the detection limit.

D For Organics analysis, this flag indicates the compound concentration was obtained from a secondary dilution analysis

E This flag indicates the compound concentration exceeded the Calibration Range. The E flag has an alternative meaning for Inorganics analyses reported using CLP metals forms, indicating an estimated concentration due to the presence of interferences, as determined by the serial dilution analysis.

P This flag is used for pesticides/PCB/herbicide compound when there is a greater than 40% difference for detected concentration between the two GC columns used for primary and confirmation analyses. This difference typically indicates an interference, causing one value to be unusually high. The **lower** of the two values is generally reported on the Form 1, and both values reported on the Form 10.

A Used to flag semivolatile organic Tentatively Identified Compound library search results for compounds identified as aldol condensation byproducts.

N Used to flag results for volatile and semivolatile Organics analysis Tentatively Identified Compounds where an analyte has passed the identification criteria, and is considered to be positively identified. For Inorganics analysis the N flag indicates the matrix spike recovery falls outside of the control limit.

* For Inorganics analysis the * flag indicates Relative Percent Difference for duplicate analyses is outside of the control limit.

Sample ID Suffixes

DL Diluted analysis. The sample was diluted and reanalyzed. The DL may be followed by a digit if more than one diluted reanalysis is provided. The DL suffix is not attached to an analysis initially performed at dilution, only to reanalyses performed at dilution

RE Reanalysis. Appended to the client sample ID to indicate a reextraction and reanalysis or a reanalysis of the original sample extract.

RA Reanalysis. Appended to the laboratory sample ID indicates a reanalysis of the original sample extract.

RX Reextraction. Appended to the laboratory sample ID indicates a reextraction of the sample.

MS Matrix Spike.

MSD Matrix Spike Duplicate

DUP Duplicate analysis

SD Serial Dilution

PS Post-digestion or Post-distillation spike. For metals or inorganic analyses

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-9 (122712)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2641 Mod. Ref No.: SDG No.: SL2641

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L2641-01A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M0066.D

Level: (TRACE/LOW/MED) LOW Date Received: 12/28/2012

% Moisture: not dec. Date Analyzed: 12/28/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	1.0	U
74-87-3	Chloromethane	1.0	U
75-01-4	Vinyl chloride	1.0	U
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
67-64-1	Acetone	23	
75-15-0	Carbon disulfide	1.0	U
75-09-2	Methylene chloride	1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	U
1634-04-4	Methyl tert-butyl ether	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
74-97-5	Bromochloromethane	1.0	U
67-66-3	Chloroform	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
71-43-2	Benzene	1.0	U
79-01-6	Trichloroethene	4.2	
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.82	J
10061-02-6	trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
127-18-4	Tetrachloroethene	8.6	
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U
108-90-7	Chlorobenzene	1.0	U
100-41-4	Ethylbenzene	1.0	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-9 (122712)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2641 Mod. Ref No.: SDG No.: SL2641

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L2641-01A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M0066.D

Level: (TRACE/LOW/MED) LOW Date Received: 12/28/2012

% Moisture: not dec. Date Analyzed: 12/28/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
179601-23-1	m,p-Xylene	1.0	U
95-47-6	o-Xylene	1.0	U
100-42-5	Styrene	1.0	U
75-25-2	Bromoform	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U
123-91-1	1,4-Dioxane	100	U
110-82-7	Cyclohexane	1.0	U
79-20-9	Methyl acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TRIP BLANK

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2641 Mod. Ref No.: SDG No.: SL2641

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L2641-02A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M0179.D

Level: (TRACE/LOW/MED) LOW Date Received: 12/28/2012

% Moisture: not dec. Date Analyzed: 01/08/2013

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	1.0	U
74-87-3	Chloromethane	1.0	U
75-01-4	Vinyl chloride	1.0	U
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	1.0	U
75-09-2	Methylene chloride	1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	U
1634-04-4	Methyl tert-butyl ether	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
74-97-5	Bromochloromethane	1.0	U
67-66-3	Chloroform	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
71-43-2	Benzene	1.0	U
79-01-6	Trichloroethene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U
108-90-7	Chlorobenzene	1.0	U
100-41-4	Ethylbenzene	1.0	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TRIP BLANK

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2641 Mod. Ref No.: SDG No.: SL2641

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L2641-02A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M0179.D

Level: (TRACE/LOW/MED) LOW Date Received: 12/28/2012

% Moisture: not dec. Date Analyzed: 01/08/2013

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
179601-23-1	m,p-Xylene	1.0	U
95-47-6	o-Xylene	1.0	U
100-42-5	Styrene	1.0	U
75-25-2	Bromoform	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U
123-91-1	1,4-Dioxane	100	U
110-82-7	Cyclohexane	1.0	U
79-20-9	Methyl acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MB-69954

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2641 Mod. Ref No.: SDG No.: SL2641

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: MB-69954

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M0043.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 12/28/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	1.0	U
74-87-3	Chloromethane	1.0	U
75-01-4	Vinyl chloride	1.0	U
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	1.0	U
75-09-2	Methylene chloride	1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	U
1634-04-4	Methyl tert-butyl ether	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
74-97-5	Bromochloromethane	1.0	U
67-66-3	Chloroform	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
71-43-2	Benzene	1.0	U
79-01-6	Trichloroethene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U
108-90-7	Chlorobenzene	1.0	U
100-41-4	Ethylbenzene	1.0	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MB-69954

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2641 Mod. Ref No.: SDG No.: SL2641

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: MB-69954

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M0043.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 12/28/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
179601-23-1	m,p-Xylene	1.0	U
95-47-6	o-Xylene	1.0	U
100-42-5	Styrene	1.0	U
75-25-2	Bromoform	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U
123-91-1	1,4-Dioxane	100	U
110-82-7	Cyclohexane	1.0	U
79-20-9	Methyl acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MB-70041

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2641 Mod. Ref No.: SDG No.: SL2641

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: MB-70041

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M0167.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 01/08/2013

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	1.0	U
74-87-3	Chloromethane	1.0	U
75-01-4	Vinyl chloride	1.0	U
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	1.0	U
75-09-2	Methylene chloride	1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	U
1634-04-4	Methyl tert-butyl ether	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
74-97-5	Bromochloromethane	1.0	U
67-66-3	Chloroform	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
71-43-2	Benzene	1.0	U
79-01-6	Trichloroethene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U
108-90-7	Chlorobenzene	1.0	U
100-41-4	Ethylbenzene	1.0	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MB-70041

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2641 Mod. Ref No.: SDG No.: SL2641

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: MB-70041

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M0167.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 01/08/2013

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
179601-23-1	m,p-Xylene	1.0	U
95-47-6	o-Xylene	1.0	U
100-42-5	Styrene	1.0	U
75-25-2	Bromoform	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U
123-91-1	1,4-Dioxane	100	U
110-82-7	Cyclohexane	1.0	U
79-20-9	Methyl acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCS-69954

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2641 Mod. Ref No.: SDG No.: SL2641

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: LCS-69954

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M0042.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 12/28/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	24	
74-87-3	Chloromethane	30	
75-01-4	Vinyl chloride	31	
74-83-9	Bromomethane	30	
75-00-3	Chloroethane	33	
75-69-4	Trichlorofluoromethane	40	
75-35-4	1,1-Dichloroethene	42	
67-64-1	Acetone	44	
75-15-0	Carbon disulfide	51	
75-09-2	Methylene chloride	48	
156-60-5	trans-1,2-Dichloroethene	46	
1634-04-4	Methyl tert-butyl ether	42	
75-34-3	1,1-Dichloroethane	47	
78-93-3	2-Butanone	44	
156-59-2	cis-1,2-Dichloroethene	46	
74-97-5	Bromochloromethane	42	
67-66-3	Chloroform	46	
71-55-6	1,1,1-Trichloroethane	43	
56-23-5	Carbon tetrachloride	42	
107-06-2	1,2-Dichloroethane	47	
71-43-2	Benzene	47	
79-01-6	Trichloroethene	42	
78-87-5	1,2-Dichloropropane	46	
75-27-4	Bromodichloromethane	45	
10061-01-5	cis-1,3-Dichloropropene	46	
108-10-1	4-Methyl-2-pentanone	39	
108-88-3	Toluene	48	
10061-02-6	trans-1,3-Dichloropropene	45	
79-00-5	1,1,2-Trichloroethane	43	
127-18-4	Tetrachloroethene	42	
591-78-6	2-Hexanone	49	
124-48-1	Dibromochloromethane	47	
106-93-4	1,2-Dibromoethane	48	
108-90-7	Chlorobenzene	51	
100-41-4	Ethylbenzene	53	

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCS-69954

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2641 Mod. Ref No.: SDG No.: SL2641

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: LCS-69954

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M0042.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 12/28/2012

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
179601-23-1	m,p-Xylene	100	
95-47-6	o-Xylene	51	
100-42-5	Styrene	51	
75-25-2	Bromoform	41	
98-82-8	Isopropylbenzene	52	
79-34-5	1,1,2,2-Tetrachloroethane	50	
541-73-1	1,3-Dichlorobenzene	51	
106-46-7	1,4-Dichlorobenzene	49	
95-50-1	1,2-Dichlorobenzene	49	
96-12-8	1,2-Dibromo-3-chloropropane	43	
120-82-1	1,2,4-Trichlorobenzene	44	
87-61-6	1,2,3-Trichlorobenzene	41	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	36	
123-91-1	1,4-Dioxane	1200	
110-82-7	Cyclohexane	40	
79-20-9	Methyl acetate	38	
108-87-2	Methylcyclohexane	46	

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCS-70041

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2641 Mod. Ref No.: SDG No.: SL2641

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: LCS-70041

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M0163.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 01/08/2013

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	35	
74-87-3	Chloromethane	44	
75-01-4	Vinyl chloride	43	
74-83-9	Bromomethane	40	
75-00-3	Chloroethane	42	
75-69-4	Trichlorofluoromethane	48	
75-35-4	1,1-Dichloroethene	44	
67-64-1	Acetone	43	
75-15-0	Carbon disulfide	36	
75-09-2	Methylene chloride	46	
156-60-5	trans-1,2-Dichloroethene	43	
1634-04-4	Methyl tert-butyl ether	46	
75-34-3	1,1-Dichloroethane	48	
78-93-3	2-Butanone	44	
156-59-2	cis-1,2-Dichloroethene	42	
74-97-5	Bromochloromethane	46	
67-66-3	Chloroform	46	
71-55-6	1,1,1-Trichloroethane	47	
56-23-5	Carbon tetrachloride	49	
107-06-2	1,2-Dichloroethane	52	
71-43-2	Benzene	45	
79-01-6	Trichloroethene	45	
78-87-5	1,2-Dichloropropane	46	
75-27-4	Bromodichloromethane	50	
10061-01-5	cis-1,3-Dichloropropene	48	
108-10-1	4-Methyl-2-pentanone	44	
108-88-3	Toluene	46	
10061-02-6	trans-1,3-Dichloropropene	49	
79-00-5	1,1,2-Trichloroethane	46	
127-18-4	Tetrachloroethene	46	
591-78-6	2-Hexanone	43	
124-48-1	Dibromochloromethane	48	
106-93-4	1,2-Dibromoethane	45	
108-90-7	Chlorobenzene	46	
100-41-4	Ethylbenzene	45	

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCS-70041

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2641 Mod. Ref No.: SDG No.: SL2641

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: LCS-70041

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M0163.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 01/08/2013

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
179601-23-1	m,p-Xylene	90	
95-47-6	o-Xylene	46	
100-42-5	Styrene	48	
75-25-2	Bromoform	46	
98-82-8	Isopropylbenzene	45	
79-34-5	1,1,2,2-Tetrachloroethane	42	
541-73-1	1,3-Dichlorobenzene	45	
106-46-7	1,4-Dichlorobenzene	45	
95-50-1	1,2-Dichlorobenzene	44	
96-12-8	1,2-Dibromo-3-chloropropane	51	
120-82-1	1,2,4-Trichlorobenzene	42	
87-61-6	1,2,3-Trichlorobenzene	41	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	48	
123-91-1	1,4-Dioxane	1300	
110-82-7	Cyclohexane	45	
79-20-9	Methyl acetate	41	
108-87-2	Methylcyclohexane	47	

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCSD-70041

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2641 Mod. Ref No.: SDG No.: SL2641

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: LCSD-70041

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M0164.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 01/08/2013

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	27	
74-87-3	Chloromethane	46	
75-01-4	Vinyl chloride	44	
74-83-9	Bromomethane	40	
75-00-3	Chloroethane	43	
75-69-4	Trichlorofluoromethane	49	
75-35-4	1,1-Dichloroethene	46	
67-64-1	Acetone	39	
75-15-0	Carbon disulfide	38	
75-09-2	Methylene chloride	47	
156-60-5	trans-1,2-Dichloroethene	44	
1634-04-4	Methyl tert-butyl ether	48	
75-34-3	1,1-Dichloroethane	51	
78-93-3	2-Butanone	43	
156-59-2	cis-1,2-Dichloroethene	45	
74-97-5	Bromochloromethane	47	
67-66-3	Chloroform	50	
71-55-6	1,1,1-Trichloroethane	48	
56-23-5	Carbon tetrachloride	53	
107-06-2	1,2-Dichloroethane	54	
71-43-2	Benzene	47	
79-01-6	Trichloroethene	48	
78-87-5	1,2-Dichloropropane	48	
75-27-4	Bromodichloromethane	53	
10061-01-5	cis-1,3-Dichloropropene	50	
108-10-1	4-Methyl-2-pentanone	44	
108-88-3	Toluene	49	
10061-02-6	trans-1,3-Dichloropropene	51	
79-00-5	1,1,2-Trichloroethane	48	
127-18-4	Tetrachloroethene	49	
591-78-6	2-Hexanone	45	
124-48-1	Dibromochloromethane	50	
106-93-4	1,2-Dibromoethane	47	
108-90-7	Chlorobenzene	48	
100-41-4	Ethylbenzene	49	

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCSD-70041

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2641 Mod. Ref No.: SDG No.: SL2641

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: LCSD-70041

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M0164.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 01/08/2013

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
179601-23-1	m,p-Xylene	98	
95-47-6	o-Xylene	50	
100-42-5	Styrene	51	
75-25-2	Bromoform	48	
98-82-8	Isopropylbenzene	51	
79-34-5	1,1,2,2-Tetrachloroethane	44	
541-73-1	1,3-Dichlorobenzene	49	
106-46-7	1,4-Dichlorobenzene	49	
95-50-1	1,2-Dichlorobenzene	48	
96-12-8	1,2-Dibromo-3-chloropropane	51	
120-82-1	1,2,4-Trichlorobenzene	48	
87-61-6	1,2,3-Trichlorobenzene	44	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	45	
123-91-1	1,4-Dioxane	1100	
110-82-7	Cyclohexane	47	
79-20-9	Methyl acetate	40	
108-87-2	Methylcyclohexane	52	

2B - FORM II VOA-2

WATER VOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2641 Mod. Ref No.: SDG No.: SL2641

Level: (TRACE or LOW) LOW

	EPA SAMPLE NO.	VDMC1 (DBFM) #	VDMC2 (DCE) #	VDMC3 (TOL) #	VDMC4 (BFB) #				TOT OUT
01	LCS-69954	97	93	112	105				0
02	MB-69954	95	88	113	103				0
03	MW-9 (122712)	98	90	112	103				0
04	LCS-70041	101	104	99	104				0
05	LCSD-70041	103	97	100	103				0
06	MB-70041	103	95	99	101				0
07	TRIP BLANK	103	94	99	99				0

		QC LIMITS
VDMC1	(DBFM) Dibromofluoromethane	(85-115)
VDMC2	(DCE) = 1,2-Dichloroethane-d4	(70-120)
VDMC3	(TOL) = Toluene-d8	(85-120)
VDMC4	(BFB) = Bromofluorobenzene	(75-120)

Column to be used to flag recovery values

* Values outside of contract required QC limits

som12.12.17.A

3 - FORM III
WATER LABORATORY CONTROL
SAMPLE RECOVERY

EPA SAMPLE NO.
LCS-69954

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2641 Mod. Ref No.: SDG No.: SL2641

Lab Sample ID: LCS-69954 LCS Lot No.:

Date Extracted: 12/28/2012 Date Analyzed (1): 12/28/2012

COMPOUND	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS %REC	#	QC. LIMITS REC.
Dichlorodifluoromethane	50.0000	0.0000	23.6320	47		30 - 155
Chloromethane	50.0000	0.0000	29.8703	60		40 - 125
Vinyl chloride	50.0000	0.0000	31.0619	62		50 - 145
Bromomethane	50.0000	0.0000	29.5938	59		30 - 145
Chloroethane	50.0000	0.0000	33.4009	67		60 - 135
Trichlorofluoromethane	50.0000	0.0000	40.0416	80		60 - 145
1,1-Dichloroethene	50.0000	0.0000	41.5834	83		70 - 130
Acetone	50.0000	0.0000	44.1285	88		40 - 140
Carbon disulfide	50.0000	0.0000	50.7436	101		35 - 160
Methylene chloride	50.0000	0.0000	48.3171	97		55 - 140
trans-1,2-Dichloroethene	50.0000	0.0000	45.6660	91		60 - 140
Methyl tert-butyl ether	50.0000	0.0000	41.7033	83		65 - 125
1,1-Dichloroethane	50.0000	0.0000	46.8196	94		70 - 135
2-Butanone	50.0000	0.0000	43.6367	87		30 - 150
cis-1,2-Dichloroethene	50.0000	0.0000	45.7220	91		70 - 125
Bromochloromethane	50.0000	0.0000	41.7675	84		65 - 130
Chloroform	50.0000	0.0000	45.9939	92		65 - 135
1,1,1-Trichloroethane	50.0000	0.0000	43.4021	87		65 - 130
Carbon tetrachloride	50.0000	0.0000	41.8442	84		65 - 140
1,2-Dichloroethane	50.0000	0.0000	46.9362	94		70 - 130
Benzene	50.0000	0.0000	46.9914	94		80 - 120
Trichloroethene	50.0000	0.0000	41.5380	83		70 - 125
1,2-Dichloropropane	50.0000	0.0000	46.2820	93		75 - 125
Bromodichloromethane	50.0000	0.0000	45.3855	91		75 - 120
cis-1,3-Dichloropropene	50.0000	0.0000	46.4642	93		70 - 130
4-Methyl-2-pentanone	50.0000	0.0000	38.6839	77		60 - 135
Toluene	50.0000	0.0000	48.2451	96		75 - 120
trans-1,3-Dichloropropene	50.0000	0.0000	44.8811	90		55 - 140
1,1,2-Trichloroethane	50.0000	0.0000	43.1129	86		75 - 125
Tetrachloroethene	50.0000	0.0000	41.6001	83		45 - 150
2-Hexanone	50.0000	0.0000	48.7221	97		55 - 130
Dibromochloromethane	50.0000	0.0000	46.9846	94		60 - 135
1,2-Dibromoethane	50.0000	0.0000	47.9529	96		80 - 120
Chlorobenzene	50.0000	0.0000	50.5825	101		80 - 120
Ethylbenzene	50.0000	0.0000	52.7877	106		75 - 125
m,p-Xylene	100.0000	0.0000	104.0466	104		75 - 130
o-Xylene	50.0000	0.0000	51.3341	103		80 - 120
Styrene	50.0000	0.0000	51.1715	102		65 - 135
Bromoform	50.0000	0.0000	41.0353	82		70 - 130
Isopropylbenzene	50.0000	0.0000	51.6980	103		75 - 125
1,1,2,2-Tetrachloroethane	50.0000	0.0000	50.4513	101		65 - 130
1,3-Dichlorobenzene	50.0000	0.0000	50.6668	101		75 - 125
1,4-Dichlorobenzene	50.0000	0.0000	49.2273	98		75 - 125
1,2-Dichlorobenzene	50.0000	0.0000	48.6875	97		70 - 120

3 - FORM III
WATER LABORATORY CONTROL
SAMPLE RECOVERY

EPA SAMPLE NO.
LCS-69954

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2641 Mod. Ref No.: SDG No.: SL2641

Lab Sample ID: LCS-69954 LCS Lot No.:

Date Extracted: 12/28/2012 Date Analyzed (1): 12/28/2012

COMPOUND	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS %REC	#	QC. LIMITS REC.
1,2-Dibromo-3-chloropropan	50.0000	0.0000	43.3129	87		50 - 130
1,2,4-Trichlorobenzene	50.0000	0.0000	44.3184	89		65 - 135
1,2,3-Trichlorobenzene	50.0000	0.0000	40.5332	81		55 - 140
1,1,2-Trichloro-1,2,2-trif	50.0000	0.0000	36.4942	73		70 - 130
1,4-Dioxane	1000.0000	0.0000	1177.7746	118		70 - 130
Cyclohexane	50.0000	0.0000	39.6486	79		70 - 130
Methyl acetate	50.0000	0.0000	37.8672	76		70 - 130
Methylcyclohexane	50.0000	0.0000	45.5345	91		70 - 130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 0 out of 52 outside limits

COMMENTS:

3 - FORM III
WATER LABORATORY CONTROL
SAMPLE RECOVERY

EPA SAMPLE NO.
LCS-70041

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2641 Mod. Ref No.: SDG No.: SL2641

Lab Sample ID: LCS-70041 LCS Lot No.:

Date Extracted: 01/08/2013 Date Analyzed (1): 01/08/2013

COMPOUND	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS %REC	#	QC. LIMITS REC.
Dichlorodifluoromethane	50.0000	0.0000	35.2270	70		30 - 155
Chloromethane	50.0000	0.0000	44.0144	88		40 - 125
Vinyl chloride	50.0000	0.0000	43.2934	87		50 - 145
Bromomethane	50.0000	0.0000	39.9481	80		30 - 145
Chloroethane	50.0000	0.0000	42.4766	85		60 - 135
Trichlorofluoromethane	50.0000	0.0000	48.0175	96		60 - 145
1,1-Dichloroethene	50.0000	0.0000	43.6532	87		70 - 130
Acetone	50.0000	0.0000	43.4172	87		40 - 140
Carbon disulfide	50.0000	0.0000	36.4815	73		35 - 160
Methylene chloride	50.0000	0.0000	45.5859	91		55 - 140
trans-1,2-Dichloroethene	50.0000	0.0000	42.8145	86		60 - 140
Methyl tert-butyl ether	50.0000	0.0000	45.7923	92		65 - 125
1,1-Dichloroethane	50.0000	0.0000	48.3449	97		70 - 135
2-Butanone	50.0000	0.0000	43.7165	87		30 - 150
cis-1,2-Dichloroethene	50.0000	0.0000	42.0889	84		70 - 125
Bromochloromethane	50.0000	0.0000	45.6719	91		65 - 130
Chloroform	50.0000	0.0000	46.3231	93		65 - 135
1,1,1-Trichloroethane	50.0000	0.0000	47.3078	95		65 - 130
Carbon tetrachloride	50.0000	0.0000	48.9714	98		65 - 140
1,2-Dichloroethane	50.0000	0.0000	52.4418	105		70 - 130
Benzene	50.0000	0.0000	45.3556	91		80 - 120
Trichloroethene	50.0000	0.0000	44.9014	90		70 - 125
1,2-Dichloropropane	50.0000	0.0000	45.7669	92		75 - 125
Bromodichloromethane	50.0000	0.0000	50.4066	101		75 - 120
cis-1,3-Dichloropropene	50.0000	0.0000	47.8689	96		70 - 130
4-Methyl-2-pentanone	50.0000	0.0000	43.5507	87		60 - 135
Toluene	50.0000	0.0000	45.6933	91		75 - 120
trans-1,3-Dichloropropene	50.0000	0.0000	48.9693	98		55 - 140
1,1,2-Trichloroethane	50.0000	0.0000	45.8042	92		75 - 125
Tetrachloroethene	50.0000	0.0000	46.2409	92		45 - 150
2-Hexanone	50.0000	0.0000	42.9217	86		55 - 130
Dibromochloromethane	50.0000	0.0000	47.7410	95		60 - 135
1,2-Dibromoethane	50.0000	0.0000	44.6028	89		80 - 120
Chlorobenzene	50.0000	0.0000	45.5659	91		80 - 120
Ethylbenzene	50.0000	0.0000	45.0758	90		75 - 125
m,p-Xylene	100.0000	0.0000	90.1077	90		75 - 130
o-Xylene	50.0000	0.0000	46.4272	93		80 - 120
Styrene	50.0000	0.0000	47.8686	96		65 - 135
Bromoform	50.0000	0.0000	46.0676	92		70 - 130
Isopropylbenzene	50.0000	0.0000	45.4844	91		75 - 125
1,1,2,2-Tetrachloroethane	50.0000	0.0000	42.1240	84		65 - 130
1,3-Dichlorobenzene	50.0000	0.0000	44.9193	90		75 - 125
1,4-Dichlorobenzene	50.0000	0.0000	45.3554	91		75 - 125
1,2-Dichlorobenzene	50.0000	0.0000	44.1968	88		70 - 120

3 - FORM III
WATER LABORATORY CONTROL
SAMPLE RECOVERY

EPA SAMPLE NO.
LCS-70041

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2641 Mod. Ref No.: SDG No.: SL2641

Lab Sample ID: LCS-70041 LCS Lot No.:

Date Extracted: 01/08/2013 Date Analyzed (1): 01/08/2013

COMPOUND	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS %REC	#	QC. LIMITS REC.
1,2-Dibromo-3-chloropropan	50.0000	0.0000	50.7417	101		50 - 130
1,2,4-Trichlorobenzene	50.0000	0.0000	42.3685	85		65 - 135
1,2,3-Trichlorobenzene	50.0000	0.0000	40.6916	81		55 - 140
1,1,2-Trichloro-1,2,2-trif	50.0000	0.0000	48.4995	97		70 - 130
1,4-Dioxane	1000.0000	0.0000	1293.2481	129		70 - 130
Cyclohexane	50.0000	0.0000	44.9354	90		70 - 130
Methyl acetate	50.0000	0.0000	41.1739	82		70 - 130
Methylcyclohexane	50.0000	0.0000	46.5386	93		70 - 130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 0 out of 52 outside limits

COMMENTS:

3 - FORM III

WATER LABORATORY CONTROL

SAMPLE DUPLICATE RECOVERY

EPA SAMPLE NO.

LCSD-70041

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2641 Mod. Ref No.: SDG No.: SL2641

Lab Sample ID: LCSD-70041 LCS Lot No.:

COMPOUND	SPIKE ADDED	LCSD CONCENTRATION	LCSD %REC	#	%RPD	#	QC LIMITS RPD	QC LIMITS REC.
Dichlorodifluoromethane	50.0000	27.3162	55		24		40	30 - 155
Chloromethane	50.0000	46.1446	92		4		40	40 - 125
Vinyl chloride	50.0000	44.0510	88		1		40	50 - 145
Bromomethane	50.0000	40.2536	81		1		40	30 - 145
Chloroethane	50.0000	42.7264	85		0		40	60 - 135
Trichlorofluoromethane	50.0000	48.7711	98		2		40	60 - 145
1,1-Dichloroethene	50.0000	46.2122	92		6		40	70 - 130
Acetone	50.0000	39.4094	79		10		40	40 - 140
Carbon disulfide	50.0000	38.2642	77		5		40	35 - 160
Methylene chloride	50.0000	46.8526	94		3		40	55 - 140
trans-1,2-Dichloroethene	50.0000	43.9291	88		2		40	60 - 140
Methyl tert-butyl ether	50.0000	47.6948	95		3		40	65 - 125
1,1-Dichloroethane	50.0000	51.4888	103		6		40	70 - 135
2-Butanone	50.0000	43.3931	87		0		40	30 - 150
cis-1,2-Dichloroethene	50.0000	45.2100	90		7		40	70 - 125
Bromochloromethane	50.0000	47.4648	95		4		40	65 - 130
Chloroform	50.0000	49.6199	99		6		40	65 - 135
1,1,1-Trichloroethane	50.0000	48.4555	97		2		40	65 - 130
Carbon tetrachloride	50.0000	52.7205	105		7		40	65 - 140
1,2-Dichloroethane	50.0000	54.4266	109		4		40	70 - 130
Benzene	50.0000	47.3292	95		4		40	80 - 120
Trichloroethene	50.0000	48.0534	96		6		40	70 - 125
1,2-Dichloropropane	50.0000	48.1722	96		4		40	75 - 125
Bromodichloromethane	50.0000	53.2099	106		5		40	75 - 120
cis-1,3-Dichloropropene	50.0000	50.2674	101		5		40	70 - 130
4-Methyl-2-pentanone	50.0000	44.1866	88		1		40	60 - 135
Toluene	50.0000	48.5774	97		6		40	75 - 120
trans-1,3-Dichloropropene	50.0000	51.0487	102		4		40	55 - 140
1,1,2-Trichloroethane	50.0000	47.5852	95		3		40	75 - 125
Tetrachloroethene	50.0000	49.1410	98		6		40	45 - 150
2-Hexanone	50.0000	44.7590	90		5		40	55 - 130
Dibromochloromethane	50.0000	49.9917	100		5		40	60 - 135
1,2-Dibromoethane	50.0000	46.5334	93		4		40	80 - 120
Chlorobenzene	50.0000	48.3409	97		6		40	80 - 120
Ethylbenzene	50.0000	49.4969	99		10		40	75 - 125
m,p-Xylene	100.0000	98.2270	98		9		40	75 - 130
o-Xylene	50.0000	50.0154	100		7		40	80 - 120
Styrene	50.0000	51.2003	102		6		40	65 - 135
Bromoform	50.0000	47.7319	95		3		40	70 - 130
Isopropylbenzene	50.0000	50.5443	101		10		40	75 - 125
1,1,2,2-Tetrachloroethane	50.0000	43.8427	88		5		40	65 - 130
1,3-Dichlorobenzene	50.0000	48.8871	98		9		40	75 - 125
1,4-Dichlorobenzene	50.0000	48.8232	98		7		40	75 - 125
1,2-Dichlorobenzene	50.0000	47.7457	95		8		40	70 - 120
1,2-Dibromo-3-chloropropan	50.0000	51.3365	103		2		40	50 - 130
1,2,4-Trichlorobenzene	50.0000	47.8603	96		12		40	65 - 135

3 - FORM III
WATER LABORATORY CONTROL
SAMPLE DUPLICATE RECOVERY

EPA SAMPLE NO.
LCSD-70041

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2641 Mod. Ref No.: SDG No.: SL2641

Lab Sample ID: LCSD-70041 LCS Lot No.:

COMPOUND	SPIKE ADDED	LCSD CONCENTRATION	LCSD %REC	#	%RPD	#	QC LIMITS RPD	QC LIMITS REC.
1,2,3-Trichlorobenzene	50.0000	44.3222	89		9		40	55 - 140
1,1,2-Trichloro-1,2,2-trif	50.0000	44.9227	90		7		40	70 - 130
1,4-Dioxane	1000.0000	1146.6405	115		11		40	70 - 130
Cyclohexane	50.0000	46.8889	94		4		40	70 - 130
Methyl acetate	50.0000	40.4135	81		1		40	70 - 130
Methylcyclohexane	50.0000	51.5741	103		10		40	70 - 130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 52 outside limits

Spike Recovery: 0 out of 52 outside limits

COMMENTS:

4A - FORM IV VOA

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

MB-69954

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2641 Mod. Ref No.: SDG No.: SL2641

Lab File ID: V1M0043.D Lab Sample ID: MB-69954

Instrument ID: V1

Matrix: (SOIL/SED/WATER) WATER Date Analyzed: 12/28/2012

Level: (TRACE or LOW/MED) LOW Time Analyzed: 11:16

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	LCS-69954	LCS-69954	V1M0042.D	10:28
02	MW-9 (122712)	L2641-01A	V1M0066.D	20:48

COMMENTS:

4A - FORM IV VOA

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

MB-70041

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2641 Mod. Ref No.: SDG No.: SL2641

Lab File ID: V1M0167.D Lab Sample ID: MB-70041

Instrument ID: V1

Matrix: (SOIL/SED/WATER) WATER Date Analyzed: 01/08/2013

Level: (TRACE or LOW/MED) LOW Time Analyzed: 13:53

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	LCS-70041	LCS-70041	V1M0163.D	12:17
02	LCSD-70041	LCSD-70041	V1M0164.D	12:41
03	TRIP BLANK	L2641-02A	V1M0179.D	18:42

COMMENTS:

8A - FORM VIII VOA

VOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2641 Mod. Ref No.: SDG No.: SL2641

GC Column: DB-624 ID: 0.25 (mm) Init. Calib. Date(s): 12/13/2012 12/13/2012

EPA Sample No.(VSTD#####): VSTD0501D Date Analyzed: 12/28/2012

Lab File ID (Standard): V1M0041.D Time Analyzed: 10:04

Instrument ID: V1 Heated Purge: (Y/N) N

		IS1 (S1) AREA	#	RT	#	IS2 (S2) AREA	#	RT	#	IS3 (S3) AREA	#	RT	#
	12 HOUR STD	1969291		4.609		1143470		7.505		403194		10.056	
	UPPER LIMIT	3938582		5.109		2286940		8.005		806388		10.556	
	LOWER LIMIT	984646		4.109		571735		7.005		201597		9.556	
	EPA SAMPLE NO.												
01	LCS-69954	1941680		4.611		1124041		7.497		397960		10.058	
02	MB-69954	1973902		4.618		1133808		7.514		389627		10.055	
03	MW-9 (122712)	1985687		4.605		1147721		7.501		397801		10.052	

IS1 () = Fluorobenzene
IS2 () = Chlorobenzene-d5
IS3 () = 1,4-Dichlorobenzene-d4
AREA UPPER LIMIT = 200% (Low-Medium Volatiles) and 140% (Trace Volatiles) of internal standard area
AREA LOWER LIMIT = 50% (Low-Medium Volatiles) and 60% (Trace Volatiles) of internal standard area
RT UPPER LIMIT = +0.50 (Low-Medium Volatiles) and +0.33 (Trace Volatiles) minutes of internal standard RT
RT LOWER LIMIT = -0.50 (Low-Medium Volatiles) and -0.33 (Trace Volatiles) minutes of internal standard RT

Column used to flag values outside contract required QC limits with an asterisk.

8A - FORM VIII VOA

VOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2641 Mod. Ref No.: SDG No.: SL2641

GC Column: DB-624 ID: 0.25 (mm) Init. Calib. Date(s): 01/04/2013 01/04/2013

EPA Sample No.(VSTD#####): VSTD0501H Date Analyzed: 01/08/2013

Lab File ID (Standard): V1M0162.D Time Analyzed: 11:41

Instrument ID: V1 Heated Purge: (Y/N) N

		IS1 (S1) AREA	#	RT	#	IS2 (S2) AREA	#	RT	#	IS3 (S3) AREA	#	RT	#
	12 HOUR STD	411281		4.58		318489		7.476		152747		10.037	
	UPPER LIMIT	822562		5.08		636978		7.976		305494		10.537	
	LOWER LIMIT	205641		4.08		159245		6.976		76374		9.537	
	EPA SAMPLE NO.												
01	LCS-70041	409805		4.585		319772		7.471		155788		10.032	
02	LCSD-70041	443764		4.581		345282		7.477		168809		10.038	
03	MB-70041	432274		4.594		338855		7.480		163771		10.041	
04	TRIP BLANK	438864		4.594		341875		7.480		164146		10.031	

IS1 () = Fluorobenzene
IS2 () = Chlorobenzene-d5
IS3 () = 1,4-Dichlorobenzene-d4
AREA UPPER LIMIT = 200% (Low-Medium Volatiles) and 140% (Trace Volatiles) of internal standard area
AREA LOWER LIMIT = 50% (Low-Medium Volatiles) and 60% (Trace Volatiles) of internal standard area
RT UPPER LIMIT = +0.50 (Low-Medium Volatiles) and +0.33 (Trace Volatiles) minutes of internal standard RT
RT LOWER LIMIT = -0.50 (Low-Medium Volatiles) and -0.33 (Trace Volatiles) minutes of internal standard RT

Column used to flag values outside contract required QC limits with an asterisk.

Report Date:
18-Sep-13 17:02

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

☑ Final Report
☐ Re-Issued Report
☐ Revised Report

Laboratory Report

ARCADIS U.S., Inc.
855 Route 146, Suite 210
Clifton Park, NY 12065

Work Order: M1581
Project : S&S Dry Cleaners & Dyers
Project #: 0266396.0000

Attn: Andy Vitolins

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
M1581-01	MW-12-082813	Aqueous	28-Aug-13 11:30	29-Aug-13 10:05
M1581-02	TRIP BLANK_082813	Aqueous	28-Aug-13 00:00	29-Aug-13 10:05

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. The results relate only to the samples(s) as received. This report may not be reproduced, except in full, without written approval from Spectrum Analytical.

All applicable NELAC or USEPA CLP requirments have been meet.

Spectrum Analytical (Rhode Island) is accredited under the National Environmental Laboratory Approval Program (NELAP) and DoD Environmental Laboratory Accreditation Program (ELAP), holds Organic and Inorganic contracts under the USEPA CLP Program and is certified under several states. The current list of our laboratory approvals and certifications is available on the Certifications page on our web site at www.spectrum-analytical.com.

Please contact the Laboratory or Technical Director at 401-732-3400 with any questions regarding the data contained in the laboratory report.

Department of Defense	N/A
Connecticut	PH-0153
Delaware	N/A
Florida	E87664
Maine	2007037
Massachusetts	M-RI907
New Hampshire	2631
New Jersey	RI001
New York	11522
North Carolina	581
Rhode Island	LAI00301
USDA	P330-08-00023
USEPA - ISM	EP-W-09-039
USEPA - SOM	EP-W-11-033

NELAP ACCREDITED TNI LABORATORY

LABORATORY ACCREDITATION BUREAU ACCREDITED
Certificate # L2247 Testing

Authorized by:

Yihai Ding
Laboratory Director



SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

* Data Summary Pack *

175 Metro Center Boulevard · Warwick, RI 02886-1755 · 401-732-3400 · FAX 401-732-3499
www.spectrum-analytical.com

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

New York State Department of Environmental Conservation
Sample Identification and Analytical Requirements Summary

Project Name : S&S Dry Cleaners & Dyers -- 0266396.0000 **SDG :** M1581

Customer Sample ID	Laboratory Sample ID	Analytical Requirements				
		MSVOA Method #	MSSEMI Method #	GC* Method #	ME	Other
MW-12-082813	M1581-01	SW8260_W				
TRIP BLANK_082813	M1581-02	SW8260_W				

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

New York State Department of Environmental Conservation
Sample Preparation and Analysis Summary MSVOA

Project Name : S&S Dry Cleaners & Dyers -- 0266396.0000 **SDG :** M1581

Laboratory Sample ID	Matrix	Date Collected	Date Received By Lab	Date Extracted	Date Analyzed
SW8260_W					
M1581-01A	AQ	8/28/2013	8/29/2013	NA	9/11/2013
M1581-02A	AQ	8/28/2013	8/29/2013	NA	9/17/2013

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

New York State Department of Environmental Conservation
Sample Preparation and Analysis Summary MSVOA

Project Name : S&S Dry Cleaners & Dyers -- 0266396.0000 **SDG :** M1581

Laboratory Sample ID	Matrix	Analytical Protocol	Extraction Method	Low/Medium Level	Dil/Conc Factor
SW8260_W					
M1581-01A	AQ	SW8260_W	NA	LOW	1
M1581-02A	AQ	SW8260_W	NA	LOW	1

M1581

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

WorkOrder: M1581

Client ID: MALCOLM_LATHAM
Project: S&S Dry Cleaners & Dyers
WO Name: S&S Dry Cleaners & Dyers
Location: ARCADIS_COHOES, 0266396.0000
Comments: N/A

Case:
SDG:
PO: 00266396.0000

HC Due: 09/16/13
Fax Due:
Fax Report: ☐

Report Level: ASP-B
Special Program:
EDD: EQUIIS_4_NYSDEC

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
M1581-01A	MW-12-082813	08/28/2013 11:30	08/29/2013	Aqueous	SW8260_W	/ SOM list, 1ppb ICAL				Y	VOA
M1581-02A	TRIP BLANK_082813	08/28/2013 00:00	08/29/2013	Aqueous	SW8260_W	/ SOM list, 1ppb ICAL				Y	VOA

HF = Fraction logged in but all tests have been placed on hold

HT = Test logged in but has been placed on hold

* Volatiles *

REPORT NARRATIVE

Spectrum Analytical, Inc. Featuring Hanibal Technology, RI Division.

Client : ARCADIS U.S., Inc.

Project: S&S Dry Cleaners & Dyers

Laboratory Workorder / SDG #: M1581

SW846 8260C, VOC by GC-MS

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code: SW846 8260C

IV. PREPARATION

Aqueous Samples were prepared following procedures in laboratory test code: SW5030B

V. INSTRUMENTATION

The following instrumentation was used

Instrument Code: V1
Instrument Type: GCMS-VOA

Description: HP5890 II / HP5972
Manufacturer: Hewlett-Packard
Model: 5890 / 5972
GC Column used: 30 m X 0.25 mm ID [1.40 um thickness] DB-624 capillary column.

Instrument Code: V10
Instrument Type: GCMS-VOA
Description: HP7890A
Manufacturer: Agilent
Model: 7890A / 5975C
GC Column used: 30 m X 0.25 mm ID [1.40 um thickness] DB-624 capillary column.

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

Surrogate standard percent recoveries were within the QC limits.

D. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits with the following exceptions. Please note that most test procedures allow for several compounds outside of the QC limits for the LCS, although this may indicate a bias for this specific compound.

LCS-73583 in batch 73583, recovery is above criteria for 1,4-Dioxane at 131% with criteria of (70-130).

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

No client-requested MS/MSD analyses were included in this SDG.

E. Internal Standards:

Internal standard peak areas were within the QC limits.

F. Dilutions:

No sample in this SDG required analysis at dilution.

G. Samples:

No other unusual occurrences were noted during sample analysis.

H. Manual Integration

Where needed, manual integrations were performed to improve data quality. The corrections were reviewed and associated hardcopies generated and reported as required. Manual integrations are coded to provide the data reviewer justification for such action. The codes are labeled on the ion chromatogram signal (GC/MS signal) and chromatogram for GC based analysis as follows:

· M1 peak tailing or fronting
· M2 peak co-elution
· M3 rising or falling baseline
· M4 retention time shift
· M5 miscellaneous - under this category, the justification is explained
· M6 software did not integrate peak
· M7 partial peak integration

Manual integration was performed on the following:

LCS-73656 Methylene chloride due to M6

VSTD00110H Bromomethane due to M3

VSTD0011D 1,1,2-Trichloroethane due to M3

VSTD0051D 4-Methyl-2-pentanone due to M3

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.



Signed:_____ _____

Date:_____9/18/2013_____

Data Flag/Qualifiers:

U Not Detected. This compound was analyzed-for but not detected. For most analyses the reporting limit (lowest standard concentration) is the value listed. For Department of Defense programs, this is the Limit of Detection (LOD).

J This flag indicates an estimated value due to either
- the compound was detected below the reporting limit, or
- estimated concentration for Tentatively Identified Compound

B This flag indicates the compound was also detected in the associated Method Blank. The B flag has an alternative meaning for Inorganics analyses reported using CLP ILM-type metals forms, indicating a "trace" concentration below the reporting limit and equal to or above the detection limit.

D For Organics analysis, this flag indicates the compound concentration was obtained from a secondary dilution analysis

E This flag indicates the compound concentration exceeded the Calibration Range. The E flag has an alternative meaning for Inorganics analyses reported using CLP metals forms, indicating an estimated concentration due to the presence of interferences, as determined by the serial dilution analysis.

P This flag is used for pesticides/PCB/herbicide compound when there is a greater than 40% difference for detected concentration between the two GC columns used for primary and confirmation analyses. This difference typically indicates an interference, causing one value to be unusually high. The **lower** of the two values is generally reported on the Form 1, and both values reported on the Form 10.

A Used to flag semivolatile organic Tentatively Identified Compound library search results for compounds identified as aldol condensation byproducts.

N Used to flag results for volatile and semivolatile Organics analysis Tentatively Identified Compounds where an analyte has passed the identification criteria, and is considered to be positively identified. For Inorganics analysis the N flag indicates the matrix spike recovery falls outside of the control limit.

* For Inorganics analysis the * flag indicates Relative Percent Difference for duplicate analyses is outside of the control limit.

Sample ID Suffixes

DL Diluted analysis. The sample was diluted and reanalyzed. The DL may be followed by a digit if more than one diluted reanalysis is provided. The DL suffix is not attached to an analysis initially performed at dilution, only to reanalyses performed at dilution

RE Reanalysis. Appended to the client sample ID to indicate a reextraction and reanalysis or a reanalysis of the original sample extract.

RA Reanalysis. Appended to the laboratory sample ID indicates a reanalysis of the original sample extract.

RX Reextraction. Appended to the laboratory sample ID indicates a reextraction of the sample.

MS Matrix Spike.

MSD Matrix Spike Duplicate

DUP Duplicate analysis

SD Serial Dilution

PS Post-digestion or Post-distillation spike. For metals or inorganic analyses

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-12-082813

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M1581 Mod. Ref No.: SDG No.: SM1581

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: M1581-01A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8D0473.D

Level: (TRACE/LOW/MED) LOW Date Received: 08/29/2013

% Moisture: not dec. Date Analyzed: 09/11/2013

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	1.0	U
74-87-3	Chloromethane	1.0	U
75-01-4	Vinyl chloride	1.0	U
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	1.0	U
75-09-2	Methylene chloride	1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	U
1634-04-4	Methyl tert-butyl ether	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
74-97-5	Bromochloromethane	1.0	U
67-66-3	Chloroform	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
71-43-2	Benzene	1.0	U
79-01-6	Trichloroethene	0.89	J
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U
108-90-7	Chlorobenzene	1.0	U
100-41-4	Ethylbenzene	1.0	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-12-082813

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M1581 Mod. Ref No.: SDG No.: SM1581

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: M1581-01A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8D0473.D

Level: (TRACE/LOW/MED) LOW Date Received: 08/29/2013

% Moisture: not dec. Date Analyzed: 09/11/2013

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
179601-23-1	m,p-Xylene	1.0	U
95-47-6	o-Xylene	1.0	U
100-42-5	Styrene	1.0	U
75-25-2	Bromoform	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U
123-91-1	1,4-Dioxane	100	U
110-82-7	Cyclohexane	1.0	U
79-20-9	Methyl acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TRIP BLANK_082813

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M1581 Mod. Ref No.: SDG No.: SM1581

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: M1581-02A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M4561.D

Level: (TRACE/LOW/MED) LOW Date Received: 08/29/2013

% Moisture: not dec. Date Analyzed: 09/17/2013

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	1.0	U
74-87-3	Chloromethane	1.0	U
75-01-4	Vinyl chloride	1.0	U
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	1.0	U
75-09-2	Methylene chloride	1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	U
1634-04-4	Methyl tert-butyl ether	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
74-97-5	Bromochloromethane	1.0	U
67-66-3	Chloroform	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
71-43-2	Benzene	1.0	U
79-01-6	Trichloroethene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U
108-90-7	Chlorobenzene	1.0	U
100-41-4	Ethylbenzene	1.0	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TRIP BLANK_082813

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M1581 Mod. Ref No.: SDG No.: SM1581

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: M1581-02A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M4561.D

Level: (TRACE/LOW/MED) LOW Date Received: 08/29/2013

% Moisture: not dec. Date Analyzed: 09/17/2013

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
179601-23-1	m,p-Xylene	1.0	U
95-47-6	o-Xylene	1.0	U
100-42-5	Styrene	1.0	U
75-25-2	Bromoform	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U
123-91-1	1,4-Dioxane	100	U
110-82-7	Cyclohexane	1.0	U
79-20-9	Methyl acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MB-73583

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M1581 Mod. Ref No.: SDG No.: SM1581

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: MB-73583

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8D0455.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 09/11/2013

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	1.0	U
74-87-3	Chloromethane	1.0	U
75-01-4	Vinyl chloride	1.0	U
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	1.0	U
75-09-2	Methylene chloride	1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	U
1634-04-4	Methyl tert-butyl ether	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
74-97-5	Bromochloromethane	1.0	U
67-66-3	Chloroform	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
71-43-2	Benzene	1.0	U
79-01-6	Trichloroethene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U
108-90-7	Chlorobenzene	1.0	U
100-41-4	Ethylbenzene	1.0	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MB-73583

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M1581 Mod. Ref No.: SDG No.: SM1581

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: MB-73583

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8D0455.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 09/11/2013

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
179601-23-1	m,p-Xylene	1.0	U
95-47-6	o-Xylene	1.0	U
100-42-5	Styrene	1.0	U
75-25-2	Bromoform	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
79-20-9	Methyl acetate	1.0	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MB-73656

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M1581 Mod. Ref No.: SDG No.: SM1581

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: MB-73656

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M4560.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 09/17/2013

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	1.0	U
74-87-3	Chloromethane	1.0	U
75-01-4	Vinyl chloride	1.0	U
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	1.0	U
75-09-2	Methylene chloride	1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	U
1634-04-4	Methyl tert-butyl ether	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
74-97-5	Bromochloromethane	1.0	U
67-66-3	Chloroform	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
71-43-2	Benzene	1.0	U
79-01-6	Trichloroethene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U
108-90-7	Chlorobenzene	1.0	U
100-41-4	Ethylbenzene	1.0	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MB-73656

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M1581 Mod. Ref No.: SDG No.: SM1581

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: MB-73656

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M4560.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 09/17/2013

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
179601-23-1	m,p-Xylene	1.0	U
95-47-6	o-Xylene	1.0	U
100-42-5	Styrene	1.0	U
75-25-2	Bromoform	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
79-20-9	Methyl acetate	1.0	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCS-73583

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M1581 Mod. Ref No.: SDG No.: SM1581

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: LCS-73583

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8D0452.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 09/11/2013

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	53	
74-87-3	Chloromethane	54	
75-01-4	Vinyl chloride	56	
74-83-9	Bromomethane	45	
75-00-3	Chloroethane	57	
75-69-4	Trichlorofluoromethane	59	
75-35-4	1,1-Dichloroethene	55	
67-64-1	Acetone	52	
75-15-0	Carbon disulfide	63	
75-09-2	Methylene chloride	56	
156-60-5	trans-1,2-Dichloroethene	57	
1634-04-4	Methyl tert-butyl ether	55	
75-34-3	1,1-Dichloroethane	57	
78-93-3	2-Butanone	52	
156-59-2	cis-1,2-Dichloroethene	56	
74-97-5	Bromochloromethane	58	
67-66-3	Chloroform	58	
71-55-6	1,1,1-Trichloroethane	57	
56-23-5	Carbon tetrachloride	60	
107-06-2	1,2-Dichloroethane	59	
71-43-2	Benzene	55	
79-01-6	Trichloroethene	55	
78-87-5	1,2-Dichloropropane	55	
75-27-4	Bromodichloromethane	60	
10061-01-5	cis-1,3-Dichloropropene	58	
108-10-1	4-Methyl-2-pentanone	54	
108-88-3	Toluene	55	
10061-02-6	trans-1,3-Dichloropropene	59	
79-00-5	1,1,2-Trichloroethane	57	
127-18-4	Tetrachloroethene	45	
591-78-6	2-Hexanone	48	
124-48-1	Dibromochloromethane	51	
106-93-4	1,2-Dibromoethane	52	
108-90-7	Chlorobenzene	50	
100-41-4	Ethylbenzene	49	

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCS-73583

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M1581 Mod. Ref No.: SDG No.: SM1581

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: LCS-73583

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8D0452.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 09/11/2013

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
179601-23-1	m,p-Xylene	99	
95-47-6	o-Xylene	51	
100-42-5	Styrene	58	
75-25-2	Bromoform	49	
98-82-8	Isopropylbenzene	48	
79-34-5	1,1,2,2-Tetrachloroethane	45	
541-73-1	1,3-Dichlorobenzene	45	
106-46-7	1,4-Dichlorobenzene	46	
95-50-1	1,2-Dichlorobenzene	46	
96-12-8	1,2-Dibromo-3-chloropropane	47	
120-82-1	1,2,4-Trichlorobenzene	44	
87-61-6	1,2,3-Trichlorobenzene	45	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	55	
123-91-1	1,4-Dioxane	1300	
110-82-7	Cyclohexane	52	
79-20-9	Methyl acetate	55	
108-87-2	Methylcyclohexane	51	

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCS-73656

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M1581 Mod. Ref No.: SDG No.: SM1581

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: LCS-73656

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M4557.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 09/16/2013

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	40	
74-87-3	Chloromethane	46	
75-01-4	Vinyl chloride	46	
74-83-9	Bromomethane	46	
75-00-3	Chloroethane	47	
75-69-4	Trichlorofluoromethane	47	
75-35-4	1,1-Dichloroethene	46	
67-64-1	Acetone	57	
75-15-0	Carbon disulfide	28	
75-09-2	Methylene chloride	57	
156-60-5	trans-1,2-Dichloroethene	48	
1634-04-4	Methyl tert-butyl ether	54	
75-34-3	1,1-Dichloroethane	48	
78-93-3	2-Butanone	57	
156-59-2	cis-1,2-Dichloroethene	46	
74-97-5	Bromochloromethane	51	
67-66-3	Chloroform	48	
71-55-6	1,1,1-Trichloroethane	44	
56-23-5	Carbon tetrachloride	46	
107-06-2	1,2-Dichloroethane	51	
71-43-2	Benzene	48	
79-01-6	Trichloroethene	49	
78-87-5	1,2-Dichloropropane	48	
75-27-4	Bromodichloromethane	50	
10061-01-5	cis-1,3-Dichloropropene	48	
108-10-1	4-Methyl-2-pentanone	51	
108-88-3	Toluene	47	
10061-02-6	trans-1,3-Dichloropropene	51	
79-00-5	1,1,2-Trichloroethane	49	
127-18-4	Tetrachloroethene	72	
591-78-6	2-Hexanone	55	
124-48-1	Dibromochloromethane	52	
106-93-4	1,2-Dibromoethane	55	
108-90-7	Chlorobenzene	46	
100-41-4	Ethylbenzene	46	

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCS-73656

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M1581 Mod. Ref No.: SDG No.: SM1581

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: LCS-73656

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M4557.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 09/16/2013

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
179601-23-1	m,p-Xylene	92	
95-47-6	o-Xylene	47	
100-42-5	Styrene	50	
75-25-2	Bromoform	57	
98-82-8	Isopropylbenzene	48	
79-34-5	1,1,2,2-Tetrachloroethane	50	
541-73-1	1,3-Dichlorobenzene	45	
106-46-7	1,4-Dichlorobenzene	48	
95-50-1	1,2-Dichlorobenzene	47	
96-12-8	1,2-Dibromo-3-chloropropane	55	
120-82-1	1,2,4-Trichlorobenzene	52	
87-61-6	1,2,3-Trichlorobenzene	41	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	43	
123-91-1	1,4-Dioxane	1000	
110-82-7	Cyclohexane	44	
79-20-9	Methyl acetate	55	
108-87-2	Methylcyclohexane	43	

2B - FORM II VOA-2

WATER VOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M1581 Mod. Ref No.: SDG No.: SM1581

Level: (TRACE or LOW) LOW

	EPA SAMPLE NO.	VDMC1 (DBFM) #	VDMC2 (DCE) #	VDMC3 (TOL) #	VDMC4 (BFB) #				TOT OUT
01	LCS-73583	107	100	94	102				0
02	MB-73583	104	107	95	94				0
03	MW-12-082813	101	105	96	97				0
04	LCS-73656	104	107	98	99				0
05	MB-73656	103	100	101	103				0
06	TRIP BLANK_082813	103	98	99	101				0

		QC LIMITS
VDMC1	(DBFM) Dibromofluoromethane	(85-115)
VDMC2	(DCE) = 1,2-Dichloroethane-d4	(70-120)
VDMC3	(TOL) = Toluene-d8	(85-120)
VDMC4	(BFB) = Bromofluorobenzene	(75-120)

Column to be used to flag recovery values

* Values outside of contract required QC limits

som13.08.22.A

3 - FORM III
WATER LABORATORY CONTROL
SAMPLE RECOVERY

EPA SAMPLE NO.
LCS-73583

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M1581 Mod. Ref No.: SDG No.: SM1581

Lab Sample ID: LCS-73583 LCS Lot No.:

Date Extracted: 09/11/2013 Date Analyzed (1): 09/11/2013

COMPOUND	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS %REC	#	QC. LIMITS REC.
Dichlorodifluoromethane	50.0000	0.0000	52.7508	106		30 - 155
Chloromethane	50.0000	0.0000	54.4453	109		40 - 125
Vinyl chloride	50.0000	0.0000	56.1387	112		50 - 145
Bromomethane	50.0000	0.0000	44.6034	89		30 - 145
Chloroethane	50.0000	0.0000	56.7281	113		60 - 135
Trichlorofluoromethane	50.0000	0.0000	59.4970	119		60 - 145
1,1-Dichloroethene	50.0000	0.0000	54.7162	109		70 - 130
Acetone	50.0000	0.0000	52.4076	105		40 - 140
Carbon disulfide	50.0000	0.0000	62.8243	126		35 - 160
Methylene chloride	50.0000	0.0000	55.5469	111		55 - 140
trans-1,2-Dichloroethene	50.0000	0.0000	56.6200	113		60 - 140
Methyl tert-butyl ether	50.0000	0.0000	55.4269	111		65 - 125
1,1-Dichloroethane	50.0000	0.0000	56.9715	114		70 - 135
2-Butanone	50.0000	0.0000	52.0331	104		30 - 150
cis-1,2-Dichloroethene	50.0000	0.0000	55.5570	111		70 - 125
Bromochloromethane	50.0000	0.0000	57.7261	115		65 - 130
Chloroform	50.0000	0.0000	58.1714	116		65 - 135
1,1,1-Trichloroethane	50.0000	0.0000	57.1847	114		65 - 130
Carbon tetrachloride	50.0000	0.0000	60.1526	120		65 - 140
1,2-Dichloroethane	50.0000	0.0000	58.9177	118		70 - 130
Benzene	50.0000	0.0000	55.3610	111		80 - 120
Trichloroethene	50.0000	0.0000	54.8887	110		70 - 125
1,2-Dichloropropane	50.0000	0.0000	54.9442	110		75 - 125
Bromodichloromethane	50.0000	0.0000	59.6050	119		75 - 120
cis-1,3-Dichloropropene	50.0000	0.0000	57.6002	115		70 - 130
4-Methyl-2-pentanone	50.0000	0.0000	54.0110	108		60 - 135
Toluene	50.0000	0.0000	55.1679	110		75 - 120
trans-1,3-Dichloropropene	50.0000	0.0000	59.4396	119		55 - 140
1,1,2-Trichloroethane	50.0000	0.0000	57.1449	114		75 - 125
Tetrachloroethene	50.0000	0.0000	44.6113	89		45 - 150
2-Hexanone	50.0000	0.0000	48.2688	97		55 - 130
Dibromochloromethane	50.0000	0.0000	51.1872	102		60 - 135
1,2-Dibromoethane	50.0000	0.0000	52.4968	105		80 - 120
Chlorobenzene	50.0000	0.0000	50.2122	100		80 - 120
Ethylbenzene	50.0000	0.0000	48.9994	98		75 - 125
m,p-Xylene	100.0000	0.0000	98.9860	99		75 - 130
o-Xylene	50.0000	0.0000	51.2499	102		80 - 120
Styrene	50.0000	0.0000	57.9791	116		65 - 135
Bromoform	50.0000	0.0000	49.4779	99		70 - 130
Isopropylbenzene	50.0000	0.0000	48.2187	96		75 - 125
1,1,2,2-Tetrachloroethane	50.0000	0.0000	45.2098	90		65 - 130
1,3-Dichlorobenzene	50.0000	0.0000	45.4928	91		75 - 125
1,4-Dichlorobenzene	50.0000	0.0000	45.7722	92		75 - 125
1,2-Dichlorobenzene	50.0000	0.0000	45.5214	91		70 - 120

3 - FORM III
WATER LABORATORY CONTROL
SAMPLE RECOVERY

EPA SAMPLE NO.
LCS-73583

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M1581 Mod. Ref No.: SDG No.: SM1581

Lab Sample ID: LCS-73583 LCS Lot No.:

Date Extracted: 09/11/2013 Date Analyzed (1): 09/11/2013

COMPOUND	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS %REC	#	QC. LIMITS REC.
1,2-Dibromo-3-chloropropan	50.0000	0.0000	47.1070	94		50 - 130
1,2,4-Trichlorobenzene	50.0000	0.0000	44.4856	89		65 - 135
1,2,3-Trichlorobenzene	50.0000	0.0000	44.9655	90		55 - 140
1,1,2-Trichloro-1,2,2-trif	50.0000	0.0000	55.1976	110		70 - 130
1,4-Dioxane	1000.0000	0.0000	1309.3091	131	*	70 - 130
Cyclohexane	50.0000	0.0000	52.2182	104		70 - 130
Methyl acetate	50.0000	0.0000	54.7262	109		70 - 130
Methylcyclohexane	50.0000	0.0000	51.1894	102		70 - 130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 1 out of 52 outside limits

COMMENTS:

3 - FORM III
WATER LABORATORY CONTROL
SAMPLE RECOVERY

EPA SAMPLE NO.
LCS-73656

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M1581 Mod. Ref No.: SDG No.: SM1581

Lab Sample ID: LCS-73656 LCS Lot No.:

Date Extracted: 09/16/2013 Date Analyzed (1): 09/16/2013

COMPOUND	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS %REC	#	QC. LIMITS REC.
Dichlorodifluoromethane	50.0000	0.0000	39.9650	80		30 - 155
Chloromethane	50.0000	0.0000	45.8512	92		40 - 125
Vinyl chloride	50.0000	0.0000	46.4674	93		50 - 145
Bromomethane	50.0000	0.0000	46.3904	93		30 - 145
Chloroethane	50.0000	0.0000	46.5950	93		60 - 135
Trichlorofluoromethane	50.0000	0.0000	47.4660	95		60 - 145
1,1-Dichloroethene	50.0000	0.0000	45.6088	91		70 - 130
Acetone	50.0000	0.0000	57.0119	114		40 - 140
Carbon disulfide	50.0000	0.0000	27.7854	56		35 - 160
Methylene chloride	50.0000	0.0000	56.9673	114		55 - 140
trans-1,2-Dichloroethene	50.0000	0.0000	47.8062	96		60 - 140
Methyl tert-butyl ether	50.0000	0.0000	54.0281	108		65 - 125
1,1-Dichloroethane	50.0000	0.0000	48.0459	96		70 - 135
2-Butanone	50.0000	0.0000	56.7399	113		30 - 150
cis-1,2-Dichloroethene	50.0000	0.0000	46.2423	92		70 - 125
Bromochloromethane	50.0000	0.0000	50.9527	102		65 - 130
Chloroform	50.0000	0.0000	47.8481	96		65 - 135
1,1,1-Trichloroethane	50.0000	0.0000	43.7331	87		65 - 130
Carbon tetrachloride	50.0000	0.0000	45.8967	92		65 - 140
1,2-Dichloroethane	50.0000	0.0000	51.2703	103		70 - 130
Benzene	50.0000	0.0000	47.8134	96		80 - 120
Trichloroethene	50.0000	0.0000	49.4640	99		70 - 125
1,2-Dichloropropane	50.0000	0.0000	48.2615	97		75 - 125
Bromodichloromethane	50.0000	0.0000	50.1671	100		75 - 120
cis-1,3-Dichloropropene	50.0000	0.0000	48.0490	96		70 - 130
4-Methyl-2-pentanone	50.0000	0.0000	51.2743	103		60 - 135
Toluene	50.0000	0.0000	47.1092	94		75 - 120
trans-1,3-Dichloropropene	50.0000	0.0000	51.1332	102		55 - 140
1,1,2-Trichloroethane	50.0000	0.0000	48.7319	97		75 - 125
Tetrachloroethene	50.0000	0.0000	71.9320	144		45 - 150
2-Hexanone	50.0000	0.0000	55.2793	111		55 - 130
Dibromochloromethane	50.0000	0.0000	52.0063	104		60 - 135
1,2-Dibromoethane	50.0000	0.0000	55.3652	111		80 - 120
Chlorobenzene	50.0000	0.0000	46.3574	93		80 - 120
Ethylbenzene	50.0000	0.0000	46.4247	93		75 - 125
m,p-Xylene	100.0000	0.0000	92.3785	92		75 - 130
o-Xylene	50.0000	0.0000	47.3776	95		80 - 120
Styrene	50.0000	0.0000	49.5912	99		65 - 135
Bromoform	50.0000	0.0000	56.7494	113		70 - 130
Isopropylbenzene	50.0000	0.0000	47.6940	95		75 - 125
1,1,2,2-Tetrachloroethane	50.0000	0.0000	50.0346	100		65 - 130
1,3-Dichlorobenzene	50.0000	0.0000	44.7283	89		75 - 125
1,4-Dichlorobenzene	50.0000	0.0000	47.9471	96		75 - 125
1,2-Dichlorobenzene	50.0000	0.0000	46.7440	93		70 - 120

3 - FORM III
WATER LABORATORY CONTROL
SAMPLE RECOVERY

EPA SAMPLE NO.
LCS-73656

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M1581 Mod. Ref No.: SDG No.: SM1581

Lab Sample ID: LCS-73656 LCS Lot No.:

Date Extracted: 09/16/2013 Date Analyzed (1): 09/16/2013

COMPOUND	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS %REC	#	QC. LIMITS REC.
1,2-Dibromo-3-chloropropan	50.0000	0.0000	55.2528	111		50 - 130
1,2,4-Trichlorobenzene	50.0000	0.0000	52.0070	104		65 - 135
1,2,3-Trichlorobenzene	50.0000	0.0000	41.3582	83		55 - 140
1,1,2-Trichloro-1,2,2-trif	50.0000	0.0000	42.6317	85		70 - 130
1,4-Dioxane	1000.0000	0.0000	1006.5039	101		70 - 130
Cyclohexane	50.0000	0.0000	43.9114	88		70 - 130
Methyl acetate	50.0000	0.0000	54.6550	109		70 - 130
Methylcyclohexane	50.0000	0.0000	43.3938	87		70 - 130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 0 out of 52 outside limits

COMMENTS:

4A - FORM IV VOA

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

MB-73656

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M1581 Mod. Ref No.: SDG No.: SM1581

Lab File ID: V1M4560.D Lab Sample ID: MB-73656

Instrument ID: V1

Matrix: (SOIL/SED/WATER) WATER Date Analyzed: 09/17/2013

Level: (TRACE or LOW/MED) LOW Time Analyzed: 0:14

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	LCS-73656	LCS-73656	V1M4557.D	23:04
02	TRIP BLANK_082813	M1581-02A	V1M4561.D	0:38

COMMENTS:

som13.08.22.A

4A - FORM IV VOA

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

MB-73583

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M1581 Mod. Ref No.: SDG No.: SM1581

Lab File ID: V8D0455.D Lab Sample ID: MB-73583

Instrument ID: V10

Matrix: (SOIL/SED/WATER) WATER Date Analyzed: 09/11/2013

Level: (TRACE or LOW/MED) LOW Time Analyzed: 9:32

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	LCS-73583	LCS-73583	V8D0452.D	7:48
02	MW-12-082813	M1581-01A	V8D0473.D	18:36

COMMENTS:

som13.08.22.A

8A - FORM VIII VOA

VOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M1581 Mod. Ref No.: SDG No.: SM1581

GC Column: DB-624 ID: 0.25 (mm) Init. Calib. Date(s): 09/16/2013 09/16/2013

EPA Sample No.(VSTD#####): VSTD0501F Date Analyzed: 09/16/2013

Lab File ID (Standard): V1M4556.D Time Analyzed: 22:41

Instrument ID: V1 Heated Purge: (Y/N) N

		IS1 (S1) AREA	#	RT	#	IS2 (S2) AREA	#	RT	#	IS3 (S3) AREA	#	RT	#
	12 HOUR STD	261889		4.54		190123		7.405		86835		9.965	
	UPPER LIMIT	523778		5.04		380246		7.905		173670		10.465	
	LOWER LIMIT	130945		4.04		95062		6.905		43418		9.465	
	EPA SAMPLE NO.												
01	LCS-73656	289953		4.537		211021		7.412		96695		9.972	
02	MB-73656	297072		4.529		210349		7.394		94397		9.964	
03	TRIP BLANK_082813	294074		4.538		208137		7.404		91820		9.964	

IS1 () = Fluorobenzene
IS2 () = Chlorobenzene-d5
IS3 () = 1,4-Dichlorobenzene-d4
AREA UPPER LIMIT = 200% (Low-Medium Volatiles) and 140% (Trace Volatiles) of internal standard area
AREA LOWER LIMIT = 50% (Low-Medium Volatiles) and 60% (Trace Volatiles) of internal standard area
RT UPPER LIMIT = +0.50 (Low-Medium Volatiles) and +0.33 (Trace Volatiles) minutes of internal standard RT
RT LOWER LIMIT = -0.50 (Low-Medium Volatiles) and -0.33 (Trace Volatiles) minutes of internal standard RT

Column used to flag values outside contract required QC limits with an asterisk.

8A - FORM VIII VOA

VOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M1581 Mod. Ref No.: SDG No.: SM1581

GC Column: DB-624 ID: 0.25 (mm) Init. Calib. Date(s): 09/05/2013 09/05/2013

EPA Sample No.(VSTD#####): VSTD05010N Date Analyzed: 09/11/2013

Lab File ID (Standard): V8D0451.D Time Analyzed: 7:10

Instrument ID: V10 Heated Purge: (Y/N) N

		IS1 (S1) AREA	#	RT	#	IS2 (S2) AREA	#	RT	#	IS3 (S3) AREA	#	RT	#
	12 HOUR STD	485011		5.243		417979		8.226		239950		10.728	
	UPPER LIMIT	970022		5.743		835958		8.726		479900		11.228	
	LOWER LIMIT	242506		4.743		208990		7.726		119975		10.228	
	EPA SAMPLE NO.												
01	LCS-73583	486668		5.243		421552		8.226		236638		10.725	
02	MB-73583	480995		5.242		411633		8.226		197249		10.731	
03	MW-12-082813	487487		5.243		417430		8.226		207444		10.728	

IS1 () = Fluorobenzene
IS2 () = Chlorobenzene-d5
IS3 () = 1,4-Dichlorobenzene-d4
AREA UPPER LIMIT = 200% (Low-Medium Volatiles) and 140% (Trace Volatiles) of internal standard area
AREA LOWER LIMIT = 50% (Low-Medium Volatiles) and 60% (Trace Volatiles) of internal standard area
RT UPPER LIMIT = +0.50 (Low-Medium Volatiles) and +0.33 (Trace Volatiles) minutes of internal standard RT
RT LOWER LIMIT = -0.50 (Low-Medium Volatiles) and -0.33 (Trace Volatiles) minutes of internal standard RT

Column used to flag values outside contract required QC limits with an asterisk.

Report Date:
11-Oct-13 09:04

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

- [x] Final Report
- [ ] Re-Issued Report
- [ ] Revised Report

Laboratory Report

ARCADIS U.S., Inc.
855 Route 146, Suite 210
Clifton Park, NY 12065

Work Order: M1770
Project : S&S Dry Cleaners & Dyers
Project #: 0266396.0000

Attn: Andy Vitolins

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
M1770-01	MW-10B_091813	Aqueous	18-Sep-13 07:50	19-Sep-13 09:13
M1770-02	MW-11B_091813	Aqueous	18-Sep-13 07:45	19-Sep-13 09:13
M1770-03	DUP_091813	Aqueous	18-Sep-13 00:00	19-Sep-13 09:13

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. The results relate only to the samples(s) as received. This report may not be reproduced, except in full, without written approval from Spectrum Analytical.

All applicable NELAC or USEPA CLP requirments have been meet.

Spectrum Analytical (Rhode Island) is accredited under the National Environmental Laboratory Approval Program (NELAP) and DoD Environmental Laboratory Accreditation Program (ELAP), holds Organic and Inorganic contracts under the USEPA CLP Program and is certified under several states. The current list of our laboratory approvals and certifications is available on the Certifications page on our web site at www.spectrum-analytical.com.

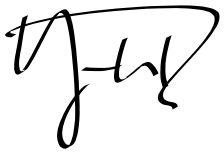
Please contact the Laboratory or Technical Director at 401-732-3400 with any questions regarding the data contained in the laboratory report.

Department of Defense	N/A
Connecticut	PH-0153
Delaware	N/A
Florida	E87664
Maine	2007037
Massachusetts	M-RI907
New Hampshire	2631
New Jersey	RI001
New York	11522
North Carolina	581
Rhode Island	LAI00301
USDA	P330-08-00023
USEPA - ISM	EP-W-09-039
USEPA - SOM	EP-W-11-033

NELAP ACCREDITED TNI LABORATORY

LABORATORY ACCREDITATION BUREAU ACCREDITED
DoD ELAP
Certificate # L2247 Testing

Authorized by:



Yihai Ding
Laboratory Director



SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

* Data Summary Pack *

175 Metro Center Boulevard · Warwick, RI 02886-1755 · 401-732-3400 · FAX 401-732-3499
www.spectrum-analytical.com

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

New York State Department of Environmental Conservation
Sample Identification and Analytical Requirements Summary

Project Name : S&S Dry Cleaners & Dyers -- 0266396.0000 **SDG :** M1770

Customer Sample ID	Laboratory Sample ID	Analytical Requirements				
		MSVOA Method #	MSSEMI Method #	GC* Method #	ME	Other
MW-10B_091813	M1770-01	SW8260_W				
MW-11B_091813	M1770-02	SW8260_W				
DUP_091813	M1770-03	SW8260_W				

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

New York State Department of Environmental Conservation
Sample Preparation and Analysis Summary MSVOA

Project Name : S&S Dry Cleaners & Dyers -- 0266396.0000 **SDG :** M1770

Laboratory Sample ID	Matrix	Date Collected	Date Received By Lab	Date Extracted	Date Analyzed
SW8260_W					
M1770-01A	AQ	9/18/2013	9/19/2013	NA	9/30/2013
M1770-02A	AQ	9/18/2013	9/19/2013	NA	9/30/2013
M1770-03A	AQ	9/18/2013	9/19/2013	NA	9/30/2013

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

New York State Department of Environmental Conservation
Sample Preparation and Analysis Summary MSVOA

Project Name : S&S Dry Cleaners & Dyers -- 0266396.0000 **SDG :** M1770

Laboratory Sample ID	Matrix	Analytical Protocol	Extraction Method	Low/Medium Level	Dil/Conc Factor
SW8260_W					
M1770-01A	AQ	SW8260_W	NA	LOW	1
M1770-02A	AQ	SW8260_W	NA	LOW	1
M1770-03A	AQ	SW8260_W	NA	LOW	1

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

WorkOrder: M1770

Client ID: MALCOLM_LATHAM
Project: S&S Dry Cleaners & Dyers
WO Name: S&S Dry Cleaners & Dyers
Location: ARCADIS_COHOES, 0266396.0000
Comments: N/A

Case:
SDG:
PO: 00266396.0000

HC Due: 10/07/13
Fax Due:
Fax Report: ☐

Report Level: ASP-B
Special Program:
EDD: EQUIIS_4_NYSDEC

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
M1770-01A	MW-10B_091813	09/18/2013 07:50	09/19/2013	Aqueous	SW8260_W	/ SOM list, 1ppb ICAL				Y	VOA
M1770-02A	MW-11B_091813	09/18/2013 07:45	09/19/2013	Aqueous	SW8260_W	/ SOM list, 1ppb ICAL				Y	VOA
M1770-03A	DUP_091813	09/18/2013 00:00	09/19/2013	Aqueous	SW8260_W	/ SOM list, 1ppb ICAL				Y	VOA

HF = Fraction logged in but all tests have been placed on hold

HT = Test logged in but has been placed on hold

09/23/2013 10:51 Lab Client Rep: Agnes R Huntley

* Volatiles *

pREPORT NARRATIVE

Spectrum Analytical, Inc. Featuring Hanibal Technology, RI Division.

Client : ARCADIS U.S., Inc.

Project: S&S Dry Cleaners & Dyers

Laboratory Workorder / SDG #: M1770

SW846 8260C, VOC by GC-MS

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code: SW846 8260C

IV. PREPARATION

Aqueous Samples were prepared following procedures in laboratory test code: SW5030B

V. INSTRUMENTATION

The following instrumentation was used

Instrument Code: V10
Instrument Type: GCMS-VOA

Description: HP7890A
Manufacturer: Agilent
Model: 7890A / 5975C

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

Surrogate standard percent recoveries were within the QC limits.

D. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits.

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

No client-requested MS/MSD analyses were included in this SDG.

E. Internal Standards:

Internal standard peak areas were within the QC limits.

F. Dilutions:

No sample in this SDG required analysis at dilution.

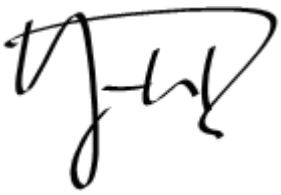
G. Samples:

No other unusual occurrences were noted during sample analysis.

H. Manual Integration

No manual integrations were performed on any sample or standard.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.



Signed:_____ _____

Date:_____10/10/2013_____

Data Flag/Qualifiers:

U Not Detected. This compound was analyzed-for but not detected. For most analyses the reporting limit (lowest standard concentration) is the value listed. For Department of Defense programs, this is the Limit of Detection (LOD).

J This flag indicates an estimated value due to either
- the compound was detected below the reporting limit, or
- estimated concentration for Tentatively Identified Compound

B This flag indicates the compound was also detected in the associated Method Blank. The B flag has an alternative meaning for Inorganics analyses reported using CLP ILM-type metals forms, indicating a "trace" concentration below the reporting limit and equal to or above the detection limit.

D For Organics analysis, this flag indicates the compound concentration was obtained from a secondary dilution analysis

E This flag indicates the compound concentration exceeded the Calibration Range. The E flag has an alternative meaning for Inorganics analyses reported using CLP metals forms, indicating an estimated concentration due to the presence of interferences, as determined by the serial dilution analysis.

P This flag is used for pesticides/PCB/herbicide compound when there is a greater than 40% difference for detected concentration between the two GC columns used for primary and confirmation analyses. This difference typically indicates an interference, causing one value to be unusually high. The **lower** of the two values is generally reported on the Form 1, and both values reported on the Form 10.

A Used to flag semivolatile organic Tentatively Identified Compound library search results for compounds identified as aldol condensation byproducts.

N Used to flag results for volatile and semivolatile Organics analysis Tentatively Identified Compounds where an analyte has passed the identification criteria, and is considered to be positively identified. For Inorganics analysis the N flag indicates the matrix spike recovery falls outside of the control limit.

* For Inorganics analysis the * flag indicates Relative Percent Difference for duplicate analyses is outside of the control limit.

Sample ID Suffixes

DL Diluted analysis. The sample was diluted and reanalyzed. The DL may be followed by a digit if more than one diluted reanalysis is provided. The DL suffix is not attached to an analysis initially performed at dilution, only to reanalyses performed at dilution

RE Reanalysis. Appended to the client sample ID to indicate a reextraction and reanalysis or a reanalysis of the original sample extract.

RA Reanalysis. Appended to the laboratory sample ID indicates a reanalysis of the original sample extract.

RX Reextraction. Appended to the laboratory sample ID indicates a reextraction of the sample.

MS Matrix Spike.

MSD Matrix Spike Duplicate

DUP Duplicate analysis

SD Serial Dilution

PS Post-digestion or Post-distillation spike. For metals or inorganic analyses

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-10B_091813

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M1770 Mod. Ref No.: SDG No.: SM1770

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: M1770-01A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8D1018.D

Level: (TRACE/LOW/MED) LOW Date Received: 09/19/2013

% Moisture: not dec. Date Analyzed: 09/30/2013

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	1.0	U
74-87-3	Chloromethane	1.0	U
75-01-4	Vinyl chloride	1.0	U
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	2.4	
75-09-2	Methylene chloride	1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	U
1634-04-4	Methyl tert-butyl ether	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
74-97-5	Bromochloromethane	1.0	U
67-66-3	Chloroform	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
71-43-2	Benzene	1.0	U
79-01-6	Trichloroethene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U
108-90-7	Chlorobenzene	1.0	U
100-41-4	Ethylbenzene	1.0	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-10B_091813

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M1770 Mod. Ref No.: SDG No.: SM1770

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: M1770-01A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8D1018.D

Level: (TRACE/LOW/MED) LOW Date Received: 09/19/2013

% Moisture: not dec. Date Analyzed: 09/30/2013

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
179601-23-1	m,p-Xylene	1.0	U
95-47-6	o-Xylene	1.0	U
100-42-5	Styrene	1.0	U
75-25-2	Bromoform	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U
123-91-1	1,4-Dioxane	100	U
110-82-7	Cyclohexane	1.0	U
79-20-9	Methyl acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-11B_091813

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M1770 Mod. Ref No.: SDG No.: SM1770

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: M1770-02A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8D1019.D

Level: (TRACE/LOW/MED) LOW Date Received: 09/19/2013

% Moisture: not dec. Date Analyzed: 09/30/2013

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	1.0	U
74-87-3	Chloromethane	1.0	U
75-01-4	Vinyl chloride	1.0	U
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	1.0	U
75-09-2	Methylene chloride	1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	U
1634-04-4	Methyl tert-butyl ether	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
74-97-5	Bromochloromethane	1.0	U
67-66-3	Chloroform	0.56	J
71-55-6	1,1,1-Trichloroethane	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
71-43-2	Benzene	1.0	U
79-01-6	Trichloroethene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U
108-90-7	Chlorobenzene	1.0	U
100-41-4	Ethylbenzene	1.0	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-11B_091813

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M1770 Mod. Ref No.: SDG No.: SM1770

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: M1770-02A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8D1019.D

Level: (TRACE/LOW/MED) LOW Date Received: 09/19/2013

% Moisture: not dec. Date Analyzed: 09/30/2013

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
179601-23-1	m,p-Xylene	1.0	U
95-47-6	o-Xylene	1.0	U
100-42-5	Styrene	1.0	U
75-25-2	Bromoform	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U
123-91-1	1,4-Dioxane	100	U
110-82-7	Cyclohexane	1.0	U
79-20-9	Methyl acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DUP_091813

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M1770 Mod. Ref No.: SDG No.: SM1770

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: M1770-03A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8D1020.D

Level: (TRACE/LOW/MED) LOW Date Received: 09/19/2013

% Moisture: not dec. Date Analyzed: 09/30/2013

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	1.0	U
74-87-3	Chloromethane	1.0	U
75-01-4	Vinyl chloride	1.0	U
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	1.0	U
75-09-2	Methylene chloride	1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	U
1634-04-4	Methyl tert-butyl ether	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
74-97-5	Bromochloromethane	1.0	U
67-66-3	Chloroform	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
71-43-2	Benzene	1.0	U
79-01-6	Trichloroethene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U
108-90-7	Chlorobenzene	1.0	U
100-41-4	Ethylbenzene	1.0	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DUP_091813

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M1770 Mod. Ref No.: SDG No.: SM1770

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: M1770-03A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8D1020.D

Level: (TRACE/LOW/MED) LOW Date Received: 09/19/2013

% Moisture: not dec. Date Analyzed: 09/30/2013

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
179601-23-1	m,p-Xylene	1.0	U
95-47-6	o-Xylene	1.0	U
100-42-5	Styrene	1.0	U
75-25-2	Bromoform	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U
123-91-1	1,4-Dioxane	100	U
110-82-7	Cyclohexane	1.0	U
79-20-9	Methyl acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MB-74030

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M1770 Mod. Ref No.: SDG No.: SM1770

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: MB-74030

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8D1014.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 09/30/2013

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	1.0	U
74-87-3	Chloromethane	1.0	U
75-01-4	Vinyl chloride	1.0	U
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	1.0	U
75-09-2	Methylene chloride	1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	U
1634-04-4	Methyl tert-butyl ether	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
74-97-5	Bromochloromethane	1.0	U
67-66-3	Chloroform	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
71-43-2	Benzene	1.0	U
79-01-6	Trichloroethene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U
108-90-7	Chlorobenzene	1.0	U
100-41-4	Ethylbenzene	1.0	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MB-74030

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M1770 Mod. Ref No.: SDG No.: SM1770

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: MB-74030

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8D1014.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 09/30/2013

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
179601-23-1	m,p-Xylene	1.0	U
95-47-6	o-Xylene	1.0	U
100-42-5	Styrene	1.0	U
75-25-2	Bromoform	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

LCS-74030

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M1770 Mod. Ref No.: SDG No.: SM1770

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: LCS-74030

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8D1012.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 09/30/2013

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	55	
74-87-3	Chloromethane	50	
75-01-4	Vinyl chloride	52	
74-83-9	Bromomethane	46	
75-00-3	Chloroethane	48	
75-69-4	Trichlorofluoromethane	54	
75-35-4	1,1-Dichloroethene	50	
67-64-1	Acetone	55	
75-15-0	Carbon disulfide	56	
75-09-2	Methylene chloride	50	
156-60-5	trans-1,2-Dichloroethene	52	
1634-04-4	Methyl tert-butyl ether	51	
75-34-3	1,1-Dichloroethane	53	
78-93-3	2-Butanone	54	
156-59-2	cis-1,2-Dichloroethene	52	
74-97-5	Bromochloromethane	56	
67-66-3	Chloroform	54	
71-55-6	1,1,1-Trichloroethane	56	
56-23-5	Carbon tetrachloride	56	
107-06-2	1,2-Dichloroethane	54	
71-43-2	Benzene	51	
79-01-6	Trichloroethene	47	
78-87-5	1,2-Dichloropropane	53	
75-27-4	Bromodichloromethane	57	
10061-01-5	cis-1,3-Dichloropropene	57	
108-10-1	4-Methyl-2-pentanone	45	
108-88-3	Toluene	52	
10061-02-6	trans-1,3-Dichloropropene	51	
79-00-5	1,1,2-Trichloroethane	50	
127-18-4	Tetrachloroethene	46	
591-78-6	2-Hexanone	47	
124-48-1	Dibromochloromethane	53	
106-93-4	1,2-Dibromoethane	48	
108-90-7	Chlorobenzene	49	
100-41-4	Ethylbenzene	51	

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

LCS-74030

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M1770 Mod. Ref No.: SDG No.: SM1770

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: LCS-74030

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8D1012.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 09/30/2013

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
179601-23-1	m,p-Xylene	100	
95-47-6	o-Xylene	53	
100-42-5	Styrene	52	
75-25-2	Bromoform	52	
98-82-8	Isopropylbenzene	50	
79-34-5	1,1,2,2-Tetrachloroethane	43	
541-73-1	1,3-Dichlorobenzene	49	
106-46-7	1,4-Dichlorobenzene	47	
95-50-1	1,2-Dichlorobenzene	49	
96-12-8	1,2-Dibromo-3-chloropropane	40	
120-82-1	1,2,4-Trichlorobenzene	46	
87-61-6	1,2,3-Trichlorobenzene	50	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	51	
123-91-1	1,4-Dioxane	940	
110-82-7	Cyclohexane	50	
79-20-9	Methyl acetate	42	
108-87-2	Methylcyclohexane	51	

2B - FORM II VOA-2

WATER VOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M1770 Mod. Ref No.: SDG No.: SM1770

Level: (TRACE or LOW) LOW

	CLIENT SAMPLE NO.	VDMC1 (DBFM) #	VDMC2 (DCE) #	VDMC3 (TOL) #	VDMC4 (BFB) #				TOT OUT
01	LCS-74030	103	100	97	102				0
02	MB-74030	103	102	101	96				0
03	MW-10B_091813	105	99	101	94				0
04	MW-11B_091813	106	101	103	94				0
05	DUP_091813	105	100	100	93				0

		QC LIMITS
VDMC1	(DBFM) Dibromofluoromethane	(85-115)
VDMC2	(DCE) = 1,2-Dichloroethane-d4	(70-120)
VDMC3	(TOL) = Toluene-d8	(85-120)
VDMC4	(BFB) = Bromofluorobenzene	(75-120)

Column to be used to flag recovery values

* Values outside of contract required QC limits

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Page 1 of 1 SW846

3 - FORM III
WATER LABORATORY CONTROL
SAMPLE RECOVERY

CLIENT SAMPLE NO.
LCS-74030

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M1770 Mod. Ref No.: SDG No.: SM1770

Lab Sample ID: LCS-74030 LCS Lot No.:

Date Extracted: 09/30/2013 Date Analyzed (1): 09/30/2013

COMPOUND	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS %REC	#	QC. LIMITS REC.
Dichlorodifluoromethane	50.0000	0.0000	55.4440	111		30 - 155
Chloromethane	50.0000	0.0000	50.0233	100		40 - 125
Vinyl chloride	50.0000	0.0000	51.6820	103		50 - 145
Bromomethane	50.0000	0.0000	46.0603	92		30 - 145
Chloroethane	50.0000	0.0000	47.7740	96		60 - 135
Trichlorofluoromethane	50.0000	0.0000	53.7456	107		60 - 145
1,1-Dichloroethene	50.0000	0.0000	49.5643	99		70 - 130
Acetone	50.0000	0.0000	54.9464	110		40 - 140
Carbon disulfide	50.0000	0.0000	55.7302	111		35 - 160
Methylene chloride	50.0000	0.0000	49.9511	100		55 - 140
trans-1,2-Dichloroethene	50.0000	0.0000	52.2923	105		60 - 140
Methyl tert-butyl ether	50.0000	0.0000	51.2864	103		65 - 125
1,1-Dichloroethane	50.0000	0.0000	53.4602	107		70 - 135
2-Butanone	50.0000	0.0000	53.8268	108		30 - 150
cis-1,2-Dichloroethene	50.0000	0.0000	52.0074	104		70 - 125
Bromochloromethane	50.0000	0.0000	56.1317	112		65 - 130
Chloroform	50.0000	0.0000	53.7872	108		65 - 135
1,1,1-Trichloroethane	50.0000	0.0000	55.8707	112		65 - 130
Carbon tetrachloride	50.0000	0.0000	55.9990	112		65 - 140
1,2-Dichloroethane	50.0000	0.0000	53.6095	107		70 - 130
Benzene	50.0000	0.0000	50.8584	102		80 - 120
Trichloroethene	50.0000	0.0000	47.3278	95		70 - 125
1,2-Dichloropropane	50.0000	0.0000	52.6997	105		75 - 125
Bromodichloromethane	50.0000	0.0000	56.7926	114		75 - 120
cis-1,3-Dichloropropene	50.0000	0.0000	56.7867	114		70 - 130
4-Methyl-2-pentanone	50.0000	0.0000	44.8971	90		60 - 135
Toluene	50.0000	0.0000	52.1385	104		75 - 120
trans-1,3-Dichloropropene	50.0000	0.0000	50.5601	101		55 - 140
1,1,2-Trichloroethane	50.0000	0.0000	50.2391	100		75 - 125
Tetrachloroethene	50.0000	0.0000	45.9650	92		45 - 150
2-Hexanone	50.0000	0.0000	46.7844	94		55 - 130
Dibromochloromethane	50.0000	0.0000	53.2135	106		60 - 135
1,2-Dibromoethane	50.0000	0.0000	48.3328	97		80 - 120
Chlorobenzene	50.0000	0.0000	49.2051	98		80 - 120
Ethylbenzene	50.0000	0.0000	51.2921	103		75 - 125
m,p-Xylene	100.0000	0.0000	103.6433	104		75 - 130
o-Xylene	50.0000	0.0000	53.3080	107		80 - 120
Styrene	50.0000	0.0000	52.2030	104		65 - 135
Bromoform	50.0000	0.0000	51.5480	103		70 - 130
Isopropylbenzene	50.0000	0.0000	50.2306	100		75 - 125
1,1,2,2-Tetrachloroethane	50.0000	0.0000	42.5980	85		65 - 130
1,3-Dichlorobenzene	50.0000	0.0000	48.6190	97		75 - 125
1,4-Dichlorobenzene	50.0000	0.0000	47.2841	95		75 - 125
1,2-Dichlorobenzene	50.0000	0.0000	49.2561	99		70 - 120

3 - FORM III
WATER LABORATORY CONTROL
SAMPLE RECOVERY

CLIENT SAMPLE NO.
LCS-74030

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M1770 Mod. Ref No.: SDG No.: SM1770

Lab Sample ID: LCS-74030 LCS Lot No.:

Date Extracted: 09/30/2013 Date Analyzed (1): 09/30/2013

COMPOUND	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS %REC	#	QC. LIMITS REC.
1,2-Dibromo-3-chloropropan	50.0000	0.0000	39.5066	79		50 - 130
1,2,4-Trichlorobenzene	50.0000	0.0000	46.2817	93		65 - 135
1,2,3-Trichlorobenzene	50.0000	0.0000	50.1397	100		55 - 140
1,1,2-Trichloro-1,2,2-trif	50.0000	0.0000	51.0890	102		70 - 130
1,4-Dioxane	1000.0000	0.0000	936.6713	94		70 - 130
Cyclohexane	50.0000	0.0000	49.8543	100		70 - 130
Methyl acetate	50.0000	0.0000	41.9248	84		70 - 130
Methylcyclohexane	50.0000	0.0000	51.3131	103		70 - 130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 0 out of 52 outside limits

COMMENTS:

4A - FORM IV VOA

VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

MB-74030

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M1770 Mod. Ref No.: SDG No.: SM1770

Lab File ID: V8D1014.D Lab Sample ID: MB-74030

Instrument ID: V10

Matrix: (SOIL/SED/WATER) WATER Date Analyzed: 09/30/2013

Level: (TRACE or LOW/MED) LOW Time Analyzed: 9:28

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	LCS-74030	LCS-74030	V8D1012.D	8:21
02	MW-10B_091813	M1770-01A	V8D1018.D	11:19
03	MW-11B_091813	M1770-02A	V8D1019.D	11:46
04	DUP_091813	M1770-03A	V8D1020.D	12:13

COMMENTS:

som13.08.22.A

8A - FORM VIII VOA

VOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M1770 Mod. Ref No.: SDG No.: SM1770

GC Column: DB-624 ID: 0.25 (mm) Init. Calib. Date(s): 09/28/2013 09/28/2013

EPA Sample No.(VSTD#####): VSTD05010H Date Analyzed: 09/30/2013

Lab File ID (Standard): V8D1011.D Time Analyzed: 7:35

Instrument ID: V10 Heated Purge: (Y/N) N

		IS1 (S1) AREA	#	RT	#	IS2 (S2) AREA	#	RT	#	IS3 (S3) AREA	#	RT	#
	12 HOUR STD	146070		5.236		137195		8.223		91283		10.725	
	UPPER LIMIT	292140		5.736		274390		8.723		182566		11.225	
	LOWER LIMIT	73035		4.736		68598		7.723		45642		10.225	
	SAMPLE NO.												
01	LCS-74030	152733		5.239		143195		8.223		90976		10.728	
02	MB-74030	141858		5.236		127272		8.223		69326		10.728	
03	MW-10B_091813	132377		5.236		119556		8.223		63451		10.728	
04	MW-11B_091813	133231		5.236		119558		8.226		64008		10.731	
05	DUP_091813	132756		5.236		121503		8.226		63555		10.728	

IS1 () = Fluorobenzene
IS2 () = Chlorobenzene-d5
IS3 () = 1,4-Dichlorobenzene-d4
AREA UPPER LIMIT = 200% (Low-Medium Volatiles) and 140% (Trace Volatiles) of internal standard area
AREA LOWER LIMIT = 50% (Low-Medium Volatiles) and 60% (Trace Volatiles) of internal standard area
RT UPPER LIMIT = +0.50 (Low-Medium Volatiles) and +0.33 (Trace Volatiles) minutes of internal standard RT
RT LOWER LIMIT = -0.50 (Low-Medium Volatiles) and -0.33 (Trace Volatiles) minutes of internal standard RT

Column used to flag values outside contract required QC limits with an asterisk.

Report Date:
03-Dec-13 09:27

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

☑ Final Report
☐ Re-Issued Report
☐ Revised Report

Laboratory Report

ARCADIS U.S., Inc.
855 Route 146, Suite 210
Clifton Park, NY 12065

Work Order: M2225
Project : S&S Dry Cleaners & Dyers
Project #: 0266396.0000

Attn: Andy Vitolins

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
M2225-01	MW-12_111113	Aqueous	11-Nov-13 08:30	14-Nov-13 08:40
M2225-02	MW-10B_111113	Aqueous	11-Nov-13 08:40	14-Nov-13 08:40
M2225-03	MW-1_111113	Aqueous	11-Nov-13 10:15	14-Nov-13 08:40
M2225-04	MW-6R_111113	Aqueous	11-Nov-13 11:15	14-Nov-13 08:40
M2225-05	MW-7R_111113	Aqueous	11-Nov-13 12:15	14-Nov-13 08:40
M2225-06	MW-X_111113	Aqueous	11-Nov-13 00:00	14-Nov-13 08:40
M2225-07	MW-3_111113	Aqueous	11-Nov-13 13:05	14-Nov-13 08:40
M2225-08	MW-4_111113	Aqueous	11-Nov-13 14:05	14-Nov-13 08:40
M2225-09	MW-5_111213	Aqueous	12-Nov-13 08:40	14-Nov-13 08:40
M2225-10	MW-9_111213	Aqueous	12-Nov-13 09:40	14-Nov-13 08:40
M2225-11	MW-11B_111313	Aqueous	13-Nov-13 09:05	14-Nov-13 08:40
M2225-12	MW-8_111313	Aqueous	13-Nov-13 10:25	14-Nov-13 08:40
M2225-13	TRIPBLANK_111113	Aqueous	11-Nov-13 00:00	14-Nov-13 08:40

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. The results relate only to the samples(s) as received. This report may not be reproduced, except in full, without written approval from Spectrum Analytical.

All applicable NELAC or USEPA CLP requirments have been meet.

Spectrum Analytical (Rhode Island) is accredited under the National Environmental Laboratory Approval Program (NELAP) and DoD Environmental Laboratory Accreditation Program (ELAP), holds Organic and Inorganic contracts under the USEPA CLP Program and is certified under several states. The current list of our laboratory approvals and certifications is available on the Certifications page on our web site at www.spectrum-analytical.com.

Please contact the Laboratory or Technical Director at 401-732-3400 with any questions regarding the data contained in the laboratory report.

Department of Defense	N/A
Connecticut	PH-0153
Delaware	N/A
Florida	E87664
Maine	2007037
Massachusetts	M-RI907
New Hampshire	2631
New Jersey	RI001
New York	11522
North Carolina	581
Rhode Island	LAI00301
USDA	P330-08-00023
USEPA - ISM	EP-W-09-039
USEPA - SOM	EP-W-11-033

NELAP ACCREDITED TNI LABORATORY

LABORATORY ACCREDITATION BUREAU ACCREDITED
Certificate # L2247 Testing

Authorized by:

Yihai Ding
Laboratory Director



SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

* Data Summary Pack *

175 Metro Center Boulevard · Warwick, RI 02886-1755 · 401-732-3400 · FAX 401-732-3499
www.spectrum-analytical.com

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

New York State Department of Environmental Conservation
Sample Identification and Analytical Requirements Summary

Project Name : S&S Dry Cleaners & Dyers -- 0266396.0000 **SDG :** M2225

Customer Sample ID	Laboratory Sample ID	Analytical Requirements				
		MSVOA Method #	MSSEMI Method #	GC* Method #	ME	Other
MW-12_111113	M2225-01	SW8260_W				
MW-10B_111113	M2225-02	SW8260_W				
MW-1_111113	M2225-03	SW8260_W				
MW-6R_111113	M2225-04	SW8260_W				
MW-7R_111113	M2225-05	SW8260_W				
MW-X_111113	M2225-06	SW8260_W				
MW-3_111113	M2225-07	SW8260_W				
MW-4_111113	M2225-08	SW8260_W				
MW-5_111213	M2225-09	SW8260_W				
MW-9_111213	M2225-10	SW8260_W				
MW-11B_111313	M2225-11	SW8260_W				
MW-8_111313	M2225-12	SW8260_W				
TRIPBLANK_111113	M2225-13	SW8260_W				

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

New York State Department of Environmental Conservation
Sample Preparation and Analysis Summary MSVOA

Project Name : S&S Dry Cleaners & Dyers -- 0266396.0000 **SDG :** M2225

Laboratory Sample ID	Matrix	Date Collected	Date Received By Lab	Date Extracted	Date Analyzed
SW8260_W					
M2225-01A	AQ	11/11/2013	11/14/2013	NA	11/22/2013
M2225-02A	AQ	11/11/2013	11/14/2013	NA	11/22/2013
M2225-03A	AQ	11/11/2013	11/14/2013	NA	11/22/2013
M2225-03AMS	AQ	11/11/2013	11/14/2013	NA	11/22/2013
M2225-03AMSD	AQ	11/11/2013	11/14/2013	NA	11/22/2013
M2225-04A	AQ	11/11/2013	11/14/2013	NA	11/22/2013
M2225-05A	AQ	11/11/2013	11/14/2013	NA	11/22/2013
M2225-05ADL	AQ	11/11/2013	11/14/2013	NA	11/24/2013
M2225-06A	AQ	11/11/2013	11/14/2013	NA	11/22/2013
M2225-06ADL	AQ	11/11/2013	11/14/2013	NA	11/24/2013
M2225-07A	AQ	11/11/2013	11/14/2013	NA	11/24/2013
M2225-08A	AQ	11/11/2013	11/14/2013	NA	11/22/2013
M2225-09A	AQ	11/12/2013	11/14/2013	NA	11/22/2013
M2225-10A	AQ	11/12/2013	11/14/2013	NA	11/22/2013
M2225-11A	AQ	11/13/2013	11/14/2013	NA	11/22/2013
M2225-12A	AQ	11/13/2013	11/14/2013	NA	11/22/2013
M2225-13A	AQ	11/11/2013	11/14/2013	NA	11/22/2013

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

New York State Department of Environmental Conservation
Sample Preparation and Analysis Summary MSVOA

Project Name : S&S Dry Cleaners & Dyers -- 0266396.0000 **SDG :** M2225

Laboratory Sample ID	Matrix	Analytical Protocol	Extraction Method	Low/Medium Level	Dil/Conc Factor
SW8260_W					
M2225-01A	AQ	SW8260_W	NA	LOW	1
M2225-02A	AQ	SW8260_W	NA	LOW	1
M2225-03A	AQ	SW8260_W	NA	LOW	1
M2225-03AMS	AQ	SW8260_W	NA	LOW	1
M2225-03AMSD	AQ	SW8260_W	NA	LOW	1
M2225-04A	AQ	SW8260_W	NA	LOW	1
M2225-05A	AQ	SW8260_W	NA	LOW	1
M2225-05ADL	AQ	SW8260_W	NA	LOW	5
M2225-06A	AQ	SW8260_W	NA	LOW	1
M2225-06ADL	AQ	SW8260_W	NA	LOW	5
M2225-07A	AQ	SW8260_W	NA	LOW	1
M2225-08A	AQ	SW8260_W	NA	LOW	1
M2225-09A	AQ	SW8260_W	NA	LOW	1
M2225-10A	AQ	SW8260_W	NA	LOW	1
M2225-11A	AQ	SW8260_W	NA	LOW	1
M2225-12A	AQ	SW8260_W	NA	LOW	1
M2225-13A	AQ	SW8260_W	NA	LOW	1

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

WorkOrder: M2225

Client ID: MALCOLM_LATHAM
Project: S&S Dry Cleaners & Dyers
WO Name: S&S Dry Cleaners & Dyers
Location: ARCADIS_COHOES, 0266396.0000
Comments: N/A

Case:
SDG:
PO: 00266369.0000

HC Due: 12/02/13
Fax Due:
Fax Report: ☐

Report Level: ASP-B
Special Program:
EDD: EQUIIS_4_NYSDEC

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
M2225-01A	MW-12_111113	11/11/2013 08:30	11/14/2013	Aqueous	SW8260_W	/ SOM list, 1ppb ICAL				Y	VOA
M2225-02A	MW-10B_111113	11/11/2013 08:40	11/14/2013	Aqueous	SW8260_W	/ SOM list, 1ppb ICAL				Y	VOA
M2225-03A	MW-1_111113	11/11/2013 10:15	11/14/2013	Aqueous	SW8260_W	/ SOM list, 1ppb ICAL			Y	Y	VOA
M2225-04A	MW-6R_111113	11/11/2013 11:15	11/14/2013	Aqueous	SW8260_W	/ SOM list, 1ppb ICAL				Y	VOA
M2225-05A	MW-7R_111113	11/11/2013 12:15	11/14/2013	Aqueous	SW8260_W	/ SOM list, 1ppb ICAL				Y	VOA
M2225-06A	MW-X_111113	11/11/2013 00:00	11/14/2013	Aqueous	SW8260_W	/ SOM list, 1ppb ICAL				Y	VOA
M2225-07A	MW-3_111113	11/11/2013 13:05	11/14/2013	Aqueous	SW8260_W	/ SOM list, 1ppb ICAL				Y	VOA
M2225-08A	MW-4_111113	11/11/2013 14:05	11/14/2013	Aqueous	SW8260_W	/ SOM list, 1ppb ICAL				Y	VOA
M2225-09A	MW-5_111213	11/12/2013 08:40	11/14/2013	Aqueous	SW8260_W	/ SOM list, 1ppb ICAL				Y	VOA
M2225-10A	MW-9_111213	11/12/2013 09:40	11/14/2013	Aqueous	SW8260_W	/ SOM list, 1ppb ICAL				Y	VOA
M2225-11A	MW-11B_111313	11/13/2013 09:05	11/14/2013	Aqueous	SW8260_W	/ SOM list, 1ppb ICAL				Y	VOA
M2225-12A	MW-8_111313	11/13/2013 10:25	11/14/2013	Aqueous	SW8260_W	/ SOM list, 1ppb ICAL				Y	VOA
M2225-13A	TRIPBLANK_111113	11/11/2013 00:00	11/14/2013	Aqueous	SW8260_W	/ SOM list, 1ppb ICAL				Y	VOA

HF = Fraction logged in but all tests have been placed on hold

HT = Test logged in but has been placed on hold

11/15/2013 10:25 Lab Client Rep: Agnes R Huntley

* Volatiles *

REPORT NARRATIVE

Spectrum Analytical, Inc. Featuring Hanibal Technology, RI Division.

Client : ARCADIS U.S., Inc.

Project: S&S Dry Cleaners & Dyers

Laboratory Workorder / SDG #: M2225

SW846 8260C, VOC by GC-MS

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code: SW846 8260C

IV. PREPARATION

Aqueous Samples were prepared following procedures in laboratory test code: SW5030B

V. INSTRUMENTATION

The following instrumentation was used

Instrument Code: V5
Instrument Type: GCMS-VOA

Description: HP6890 / HP6890
Manufacturer: Hewlett-Packard
Model: 6890 / 6890
GC Column used: 30 m X 0.25 mm ID [1.40 um thickness] DB-624 capillary column.

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

Surrogate standard percent recoveries were within the QC limits.

D. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits with the following exceptions. Please note that most test procedures allow for several compounds outside of the QC limits for the LCS, although this may indicate a bias for this specific compound.

LCS-74943 in batch 74943, recovery is above criteria for 1,4-Dioxane at 162% with criteria of (70-130).

LCS-74975 in batch 74975, recovery is above criteria for 1,4-Dioxane at 134% with criteria of (70-130).

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

Matrix spikes were performed on samples: MW-1_111113 (M2225-03AMS) and MW-1_111113 (M2225-03AMSD).

Percent recoveries were within the QC limits with the following exceptions:

MW-1_111113 (M2225-03AMS), recovery is below criteria for Trichlorofluoromethane at 58% with criteria of (60-145).

Replicate RPDs were within the advisory QC limits with the exception of the following:

MW-1_111113 (M2225-03AMSD), Relative Percent Difference is greater than RPD limit for Trichlorofluoromethane.

E. Internal Standards:

Internal standard peak areas were within the QC limits.

F. Dilutions:

The following samples were analyzed at dilution:

MW-7R_111113 (M2225-05ADL) : Dilution Factor: 5
MW-X_111113 (M2225-06ADL) : Dilution Factor: 5

G. Samples:

No other unusual occurrences were noted during sample analysis.

H. Manual Integration

No manual integrations were performed on any sample or standard.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Signed:_____ _____

Date:_____12/2/2013_____

Data Flag/Qualifiers:

U Not Detected. This compound was analyzed-for but not detected. For most analyses the reporting limit (lowest standard concentration) is the value listed. For Department of Defense programs, this is the Limit of Detection (LOD).

J This flag indicates an estimated value due to either
- the compound was detected below the reporting limit, or
- estimated concentration for Tentatively Identified Compound

B This flag indicates the compound was also detected in the associated Method Blank. The B flag has an alternative meaning for Inorganics analyses reported using CLP ILM-type metals forms, indicating a "trace" concentration below the reporting limit and equal to or above the detection limit.

D For Organics analysis, this flag indicates the compound concentration was obtained from a secondary dilution analysis

E This flag indicates the compound concentration exceeded the Calibration Range. The E flag has an alternative meaning for Inorganics analyses reported using CLP metals forms, indicating an estimated concentration due to the presence of interferences, as determined by the serial dilution analysis.

P This flag is used for pesticides/PCB/herbicide compound when there is a greater than 40% difference for detected concentration between the two GC columns used for primary and confirmation analyses. This difference typically indicates an interference, causing one value to be unusually high. The **lower** of the two values is generally reported on the Form 1, and both values reported on the Form 10.

A Used to flag semivolatile organic Tentatively Identified Compound library search results for compounds identified as aldol condensation byproducts.

N Used to flag results for volatile and semivolatile Organics analysis Tentatively Identified Compounds where an analyte has passed the identification criteria, and is considered to be positively identified. For Inorganics analysis the N flag indicates the matrix spike recovery falls outside of the control limit.

* For Inorganics analysis the * flag indicates Relative Percent Difference for duplicate analyses is outside of the control limit.

Sample ID Suffixes

DL Diluted analysis. The sample was diluted and reanalyzed. The DL may be followed by a digit if more than one diluted reanalysis is provided. The DL suffix is not attached to an analysis initially performed at dilution, only to reanalyses performed at dilution

RE Reanalysis. Appended to the client sample ID to indicate a reextraction and reanalysis or a reanalysis of the original sample extract.

RA Reanalysis. Appended to the laboratory sample ID indicates a reanalysis of the original sample extract.

RX Reextraction. Appended to the laboratory sample ID indicates a reextraction of the sample.

MS Matrix Spike.

MSD Matrix Spike Duplicate

DUP Duplicate analysis

SD Serial Dilution

PS Post-digestion or Post-distillation spike. For metals or inorganic analyses

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-12_111113

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M2225 Mod. Ref No.: SDG No.: SM2225

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: M2225-01A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V5O8492.D

Level: (TRACE/LOW/MED) LOW Date Received: 11/14/2013

% Moisture: not dec. Date Analyzed: 11/22/2013

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	1.0	U
74-87-3	Chloromethane	1.0	U
75-01-4	Vinyl Chloride	1.0	U
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
67-64-1	Acetone	30	
75-15-0	Carbon Disulfide	1.0	U
75-09-2	Methylene Chloride	1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	U
1634-04-4	Methyl tert-butyl ether	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
78-93-3	2-Butanone	13	
156-59-2	cis-1,2-Dichloroethene	1.3	
74-97-5	Bromochloromethane	1.0	U
67-66-3	Chloroform	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
71-43-2	Benzene	1.0	U
79-01-6	Trichloroethene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U
108-90-7	Chlorobenzene	1.0	U
100-41-4	Ethylbenzene	1.0	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-12_111113

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M2225 Mod. Ref No.: SDG No.: SM2225

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: M2225-01A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V5O8492.D

Level: (TRACE/LOW/MED) LOW Date Received: 11/14/2013

% Moisture: not dec. Date Analyzed: 11/22/2013

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
179601-23-1	m,p-Xylene	1.0	U
95-47-6	o-Xylene	1.0	U
100-42-5	Styrene	1.0	U
75-25-2	Bromoform	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U
123-91-1	1,4-Dioxane	100	U
110-82-7	Cyclohexane	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-10B_111113

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M2225 Mod. Ref No.: SDG No.: SM2225

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: M2225-02A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V5O8493.D

Level: (TRACE/LOW/MED) LOW Date Received: 11/14/2013

% Moisture: not dec. Date Analyzed: 11/22/2013

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	1.0	U
74-87-3	Chloromethane	1.0	U
75-01-4	Vinyl Chloride	1.0	U
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
67-64-1	Acetone	36	
75-15-0	Carbon Disulfide	1.0	U
75-09-2	Methylene Chloride	1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	U
1634-04-4	Methyl tert-butyl ether	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
78-93-3	2-Butanone	13	
156-59-2	cis-1,2-Dichloroethene	1.0	U
74-97-5	Bromochloromethane	1.0	U
67-66-3	Chloroform	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
71-43-2	Benzene	1.0	U
79-01-6	Trichloroethene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U
108-90-7	Chlorobenzene	1.0	U
100-41-4	Ethylbenzene	1.0	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-10B_111113

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M2225 Mod. Ref No.: SDG No.: SM2225

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: M2225-02A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V5O8493.D

Level: (TRACE/LOW/MED) LOW Date Received: 11/14/2013

% Moisture: not dec. Date Analyzed: 11/22/2013

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
179601-23-1	m,p-Xylene	1.0	U
95-47-6	o-Xylene	1.0	U
100-42-5	Styrene	1.0	U
75-25-2	Bromoform	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U
123-91-1	1,4-Dioxane	100	U
110-82-7	Cyclohexane	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-1_111113

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M2225 Mod. Ref No.: SDG No.: SM2225

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: M2225-03A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V5O8494.D

Level: (TRACE/LOW/MED) LOW Date Received: 11/14/2013

% Moisture: not dec. Date Analyzed: 11/22/2013

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	1.0	U
74-87-3	Chloromethane	1.0	U
75-01-4	Vinyl Chloride	1.0	U
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon Disulfide	1.0	U
75-09-2	Methylene Chloride	1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	U
1634-04-4	Methyl tert-butyl ether	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
74-97-5	Bromochloromethane	1.0	U
67-66-3	Chloroform	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
71-43-2	Benzene	1.0	U
79-01-6	Trichloroethene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
127-18-4	Tetrachloroethene	1.4	
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U
108-90-7	Chlorobenzene	1.0	U
100-41-4	Ethylbenzene	1.0	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-1_111113

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M2225 Mod. Ref No.: SDG No.: SM2225

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: M2225-03A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V5O8494.D

Level: (TRACE/LOW/MED) LOW Date Received: 11/14/2013

% Moisture: not dec. Date Analyzed: 11/22/2013

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
179601-23-1	m,p-Xylene	1.0	U
95-47-6	o-Xylene	1.0	U
100-42-5	Styrene	1.0	U
75-25-2	Bromoform	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U
123-91-1	1,4-Dioxane	100	U
110-82-7	Cyclohexane	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-6R_111113

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M2225 Mod. Ref No.: SDG No.: SM2225

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: M2225-04A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V5O8495.D

Level: (TRACE/LOW/MED) LOW Date Received: 11/14/2013

% Moisture: not dec. Date Analyzed: 11/22/2013

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	1.0	U
74-87-3	Chloromethane	1.0	U
75-01-4	Vinyl Chloride	18	
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon Disulfide	1.0	U
75-09-2	Methylene Chloride	1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	U
1634-04-4	Methyl tert-butyl ether	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	76	
74-97-5	Bromochloromethane	1.0	U
67-66-3	Chloroform	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
71-43-2	Benzene	1.0	U
79-01-6	Trichloroethene	1.2	
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U
108-90-7	Chlorobenzene	1.0	U
100-41-4	Ethylbenzene	1.0	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-6R_111113

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M2225 Mod. Ref No.: SDG No.: SM2225

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: M2225-04A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V5O8495.D

Level: (TRACE/LOW/MED) LOW Date Received: 11/14/2013

% Moisture: not dec. Date Analyzed: 11/22/2013

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
179601-23-1	m,p-Xylene	1.0	U
95-47-6	o-Xylene	1.0	U
100-42-5	Styrene	1.0	U
75-25-2	Bromoform	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U
123-91-1	1,4-Dioxane	100	U
110-82-7	Cyclohexane	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-7R_111113

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M2225 Mod. Ref No.: SDG No.: SM2225

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: M2225-05A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V5O8496.D

Level: (TRACE/LOW/MED) LOW Date Received: 11/14/2013

% Moisture: not dec. Date Analyzed: 11/22/2013

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	1.0	U
74-87-3	Chloromethane	1.0	U
75-01-4	Vinyl Chloride	110	
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon Disulfide	1.0	U
75-09-2	Methylene Chloride	1.0	U
156-60-5	trans-1,2-Dichloroethene	1.9	
1634-04-4	Methyl tert-butyl ether	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
78-93-3	2-Butanone	40	
156-59-2	cis-1,2-Dichloroethene	580	E
74-97-5	Bromochloromethane	1.0	U
67-66-3	Chloroform	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
71-43-2	Benzene	1.0	U
79-01-6	Trichloroethene	1.1	
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U
108-90-7	Chlorobenzene	1.0	U
100-41-4	Ethylbenzene	1.0	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-7R_111113

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M2225 Mod. Ref No.: SDG No.: SM2225

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: M2225-05A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V5O8496.D

Level: (TRACE/LOW/MED) LOW Date Received: 11/14/2013

% Moisture: not dec. Date Analyzed: 11/22/2013

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
179601-23-1	m,p-Xylene	1.0	U
95-47-6	o-Xylene	1.0	U
100-42-5	Styrene	1.0	U
75-25-2	Bromoform	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U
123-91-1	1,4-Dioxane	100	U
110-82-7	Cyclohexane	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-7R_111113DL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M2225 Mod. Ref No.: SDG No.: SM2225

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: M2225-05ADL

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V5O8584.D

Level: (TRACE/LOW/MED) LOW Date Received: 11/14/2013

% Moisture: not dec. Date Analyzed: 11/24/2013

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 5.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	120	D
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
67-64-1	Acetone	25	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
78-93-3	2-Butanone	25	U
156-59-2	cis-1,2-Dichloroethene	620	D
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	25	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	25	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-7R_111113DL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M2225 Mod. Ref No.: SDG No.: SM2225

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: M2225-05ADL

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V5O8584.D

Level: (TRACE/LOW/MED) LOW Date Received: 11/14/2013

% Moisture: not dec. Date Analyzed: 11/24/2013

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 5.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
179601-23-1	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
123-91-1	1,4-Dioxane	500	U
110-82-7	Cyclohexane	5.0	U
79-20-9	Methyl acetate	5.0	U
108-87-2	Methylcyclohexane	5.0	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-X_111113

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M2225 Mod. Ref No.: SDG No.: SM2225

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: M2225-06A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V5O8497.D

Level: (TRACE/LOW/MED) LOW Date Received: 11/14/2013

% Moisture: not dec. Date Analyzed: 11/22/2013

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	1.0	U
74-87-3	Chloromethane	1.0	U
75-01-4	Vinyl Chloride	110	
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.1	
67-64-1	Acetone	5.0	U
75-15-0	Carbon Disulfide	1.0	U
75-09-2	Methylene Chloride	1.0	U
156-60-5	trans-1,2-Dichloroethene	1.7	
1634-04-4	Methyl tert-butyl ether	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	560	E
74-97-5	Bromochloromethane	1.0	U
67-66-3	Chloroform	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
71-43-2	Benzene	1.0	U
79-01-6	Trichloroethene	1.1	
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U
108-90-7	Chlorobenzene	1.0	U
100-41-4	Ethylbenzene	1.0	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-X_111113

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M2225 Mod. Ref No.: SDG No.: SM2225

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: M2225-06A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V5O8497.D

Level: (TRACE/LOW/MED) LOW Date Received: 11/14/2013

% Moisture: not dec. Date Analyzed: 11/22/2013

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
179601-23-1	m,p-Xylene	1.0	U
95-47-6	o-Xylene	1.0	U
100-42-5	Styrene	1.0	U
75-25-2	Bromoform	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U
123-91-1	1,4-Dioxane	100	U
110-82-7	Cyclohexane	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-X_111113DL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M2225 Mod. Ref No.: SDG No.: SM2225

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: M2225-06ADL

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V5O8585.D

Level: (TRACE/LOW/MED) LOW Date Received: 11/14/2013

% Moisture: not dec. Date Analyzed: 11/24/2013

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 5.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	130	D
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
67-64-1	Acetone	25	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
78-93-3	2-Butanone	25	U
156-59-2	cis-1,2-Dichloroethene	650	D
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	25	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	25	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-X_111113DL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M2225 Mod. Ref No.: SDG No.: SM2225

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: M2225-06ADL

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V5O8585.D

Level: (TRACE/LOW/MED) LOW Date Received: 11/14/2013

% Moisture: not dec. Date Analyzed: 11/24/2013

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 5.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
179601-23-1	m,p-Xylene	5.0	U
95-47-6	o-Xylene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
123-91-1	1,4-Dioxane	500	U
110-82-7	Cyclohexane	5.0	U
79-20-9	Methyl acetate	5.0	U
108-87-2	Methylcyclohexane	5.0	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-3_111113

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M2225 Mod. Ref No.: SDG No.: SM2225

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: M2225-07A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V5O8586.D

Level: (TRACE/LOW/MED) LOW Date Received: 11/14/2013

% Moisture: not dec. Date Analyzed: 11/24/2013

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	1.0	U
74-87-3	Chloromethane	1.0	U
75-01-4	Vinyl chloride	1.0	U
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	1.0	U
75-09-2	Methylene chloride	1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	U
1634-04-4	Methyl tert-butyl ether	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
74-97-5	Bromochloromethane	1.0	U
67-66-3	Chloroform	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
71-43-2	Benzene	1.0	U
79-01-6	Trichloroethene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
127-18-4	Tetrachloroethene	7.1	
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U
108-90-7	Chlorobenzene	1.0	U
100-41-4	Ethylbenzene	1.0	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-3_111113

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M2225 Mod. Ref No.: SDG No.: SM2225

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: M2225-07A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V5O8586.D

Level: (TRACE/LOW/MED) LOW Date Received: 11/14/2013

% Moisture: not dec. Date Analyzed: 11/24/2013

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
179601-23-1	m,p-Xylene	1.0	U
95-47-6	o-Xylene	1.0	U
100-42-5	Styrene	1.0	U
75-25-2	Bromoform	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U
123-91-1	1,4-Dioxane	100	U
110-82-7	Cyclohexane	1.0	U
79-20-9	Methyl acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-4_111113

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M2225 Mod. Ref No.: SDG No.: SM2225

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: M2225-08A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V5O8499.D

Level: (TRACE/LOW/MED) LOW Date Received: 11/14/2013

% Moisture: not dec. Date Analyzed: 11/22/2013

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	1.0	U
74-87-3	Chloromethane	1.0	U
75-01-4	Vinyl Chloride	1.0	U
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon Disulfide	1.0	U
75-09-2	Methylene Chloride	1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	U
1634-04-4	Methyl tert-butyl ether	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
74-97-5	Bromochloromethane	1.0	U
67-66-3	Chloroform	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
71-43-2	Benzene	1.0	U
79-01-6	Trichloroethene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U
108-90-7	Chlorobenzene	1.0	U
100-41-4	Ethylbenzene	1.0	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-4_111113

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M2225 Mod. Ref No.: SDG No.: SM2225

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: M2225-08A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V5O8499.D

Level: (TRACE/LOW/MED) LOW Date Received: 11/14/2013

% Moisture: not dec. Date Analyzed: 11/22/2013

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
179601-23-1	m,p-Xylene	1.0	U
95-47-6	o-Xylene	1.0	U
100-42-5	Styrene	1.0	U
75-25-2	Bromoform	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U
123-91-1	1,4-Dioxane	100	U
110-82-7	Cyclohexane	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-5_111213

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M2225 Mod. Ref No.: SDG No.: SM2225

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: M2225-09A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V5O8500.D

Level: (TRACE/LOW/MED) LOW Date Received: 11/14/2013

% Moisture: not dec. Date Analyzed: 11/22/2013

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	1.0	U
74-87-3	Chloromethane	1.0	U
75-01-4	Vinyl Chloride	1.0	U
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
67-64-1	Acetone	6.3	
75-15-0	Carbon Disulfide	1.0	U
75-09-2	Methylene Chloride	1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	U
1634-04-4	Methyl tert-butyl ether	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
74-97-5	Bromochloromethane	1.0	U
67-66-3	Chloroform	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
71-43-2	Benzene	1.0	U
79-01-6	Trichloroethene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U
108-90-7	Chlorobenzene	1.0	U
100-41-4	Ethylbenzene	1.0	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-5_111213

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M2225 Mod. Ref No.: SDG No.: SM2225

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: M2225-09A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V5O8500.D

Level: (TRACE/LOW/MED) LOW Date Received: 11/14/2013

% Moisture: not dec. Date Analyzed: 11/22/2013

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
179601-23-1	m,p-Xylene	1.0	U
95-47-6	o-Xylene	1.0	U
100-42-5	Styrene	1.0	U
75-25-2	Bromoform	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U
123-91-1	1,4-Dioxane	100	U
110-82-7	Cyclohexane	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-9_111213

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M2225 Mod. Ref No.: SDG No.: SM2225

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: M2225-10A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V5O8501.D

Level: (TRACE/LOW/MED) LOW Date Received: 11/14/2013

% Moisture: not dec. Date Analyzed: 11/22/2013

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	1.0	U
74-87-3	Chloromethane	1.0	U
75-01-4	Vinyl Chloride	1.0	U
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon Disulfide	1.0	U
75-09-2	Methylene Chloride	1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	U
1634-04-4	Methyl tert-butyl ether	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
74-97-5	Bromochloromethane	1.0	U
67-66-3	Chloroform	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
71-43-2	Benzene	1.0	U
79-01-6	Trichloroethene	6.3	
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
127-18-4	Tetrachloroethene	5.4	
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U
108-90-7	Chlorobenzene	1.0	U
100-41-4	Ethylbenzene	1.0	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-9_111213

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M2225 Mod. Ref No.: SDG No.: SM2225

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: M2225-10A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V5O8501.D

Level: (TRACE/LOW/MED) LOW Date Received: 11/14/2013

% Moisture: not dec. Date Analyzed: 11/22/2013

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
179601-23-1	m,p-Xylene	1.0	U
95-47-6	o-Xylene	1.0	U
100-42-5	Styrene	1.0	U
75-25-2	Bromoform	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U
123-91-1	1,4-Dioxane	100	U
110-82-7	Cyclohexane	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-11B_111313

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M2225 Mod. Ref No.: SDG No.: SM2225

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: M2225-11A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V5O8502.D

Level: (TRACE/LOW/MED) LOW Date Received: 11/14/2013

% Moisture: not dec. Date Analyzed: 11/22/2013

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	1.0	U
74-87-3	Chloromethane	1.0	U
75-01-4	Vinyl Chloride	1.0	U
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
67-64-1	Acetone	33	
75-15-0	Carbon Disulfide	1.0	U
75-09-2	Methylene Chloride	1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	U
1634-04-4	Methyl tert-butyl ether	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
78-93-3	2-Butanone	12	
156-59-2	cis-1,2-Dichloroethene	1.0	U
74-97-5	Bromochloromethane	1.0	U
67-66-3	Chloroform	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
71-43-2	Benzene	1.0	U
79-01-6	Trichloroethene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U
108-90-7	Chlorobenzene	1.0	U
100-41-4	Ethylbenzene	1.0	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-11B_111313

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M2225 Mod. Ref No.: SDG No.: SM2225

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: M2225-11A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V5O8502.D

Level: (TRACE/LOW/MED) LOW Date Received: 11/14/2013

% Moisture: not dec. Date Analyzed: 11/22/2013

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
179601-23-1	m,p-Xylene	1.0	U
95-47-6	o-Xylene	1.0	U
100-42-5	Styrene	1.0	U
75-25-2	Bromoform	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U
123-91-1	1,4-Dioxane	100	U
110-82-7	Cyclohexane	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-8_111313

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M2225 Mod. Ref No.: SDG No.: SM2225

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: M2225-12A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V5O8503.D

Level: (TRACE/LOW/MED) LOW Date Received: 11/14/2013

% Moisture: not dec. Date Analyzed: 11/22/2013

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	1.0	U
74-87-3	Chloromethane	1.0	U
75-01-4	Vinyl Chloride	1.0	U
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon Disulfide	1.0	U
75-09-2	Methylene Chloride	1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	U
1634-04-4	Methyl tert-butyl ether	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	1.2	
74-97-5	Bromochloromethane	1.0	U
67-66-3	Chloroform	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
71-43-2	Benzene	1.0	U
79-01-6	Trichloroethene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U
108-90-7	Chlorobenzene	1.0	U
100-41-4	Ethylbenzene	1.0	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-8_111313

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M2225 Mod. Ref No.: SDG No.: SM2225

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: M2225-12A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V5O8503.D

Level: (TRACE/LOW/MED) LOW Date Received: 11/14/2013

% Moisture: not dec. Date Analyzed: 11/22/2013

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
179601-23-1	m,p-Xylene	1.0	U
95-47-6	o-Xylene	1.0	U
100-42-5	Styrene	1.0	U
75-25-2	Bromoform	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U
123-91-1	1,4-Dioxane	100	U
110-82-7	Cyclohexane	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TRIPBLANK_111113

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M2225 Mod. Ref No.: SDG No.: SM2225

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: M2225-13A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V5O8504.D

Level: (TRACE/LOW/MED) LOW Date Received: 11/14/2013

% Moisture: not dec. Date Analyzed: 11/22/2013

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	1.0	U
74-87-3	Chloromethane	1.0	U
75-01-4	Vinyl Chloride	1.0	U
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon Disulfide	1.0	U
75-09-2	Methylene Chloride	1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	U
1634-04-4	Methyl tert-butyl ether	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
74-97-5	Bromochloromethane	1.0	U
67-66-3	Chloroform	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
71-43-2	Benzene	1.0	U
79-01-6	Trichloroethene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U
108-90-7	Chlorobenzene	1.0	U
100-41-4	Ethylbenzene	1.0	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TRIPBLANK_111113

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M2225 Mod. Ref No.: SDG No.: SM2225

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: M2225-13A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V5O8504.D

Level: (TRACE/LOW/MED) LOW Date Received: 11/14/2013

% Moisture: not dec. Date Analyzed: 11/22/2013

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
179601-23-1	m,p-Xylene	1.0	U
95-47-6	o-Xylene	1.0	U
100-42-5	Styrene	1.0	U
75-25-2	Bromoform	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U
123-91-1	1,4-Dioxane	100	U
110-82-7	Cyclohexane	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MB-74943

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M2225 Mod. Ref No.: SDG No.: SM2225

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: MB-74943

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V5O8484.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 11/22/2013

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	1.0	U
74-87-3	Chloromethane	1.0	U
75-01-4	Vinyl Chloride	1.0	U
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon Disulfide	1.0	U
75-09-2	Methylene Chloride	1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	U
1634-04-4	Methyl tert-butyl ether	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
74-97-5	Bromochloromethane	1.0	U
67-66-3	Chloroform	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
71-43-2	Benzene	1.0	U
79-01-6	Trichloroethene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U
108-90-7	Chlorobenzene	1.0	U
100-41-4	Ethylbenzene	1.0	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MB-74943

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M2225 Mod. Ref No.: SDG No.: SM2225

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: MB-74943

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V5O8484.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 11/22/2013

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
179601-23-1	m,p-Xylene	1.0	U
95-47-6	o-Xylene	1.0	U
100-42-5	Styrene	1.0	U
75-25-2	Bromoform	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U
123-91-1	1,4-Dioxane	100	U
110-82-7	Cyclohexane	1.0	U
79-20-9	Methyl Acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MB-74975

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M2225 Mod. Ref No.: SDG No.: SM2225

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: MB-74975

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V5O8583.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 11/24/2013

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	1.0	U
74-87-3	Chloromethane	1.0	U
75-01-4	Vinyl chloride	1.0	U
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	1.0	U
75-09-2	Methylene chloride	1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	U
1634-04-4	Methyl tert-butyl ether	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
74-97-5	Bromochloromethane	1.0	U
67-66-3	Chloroform	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
71-43-2	Benzene	1.0	U
79-01-6	Trichloroethene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U
108-90-7	Chlorobenzene	1.0	U
100-41-4	Ethylbenzene	1.0	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MB-74975

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M2225 Mod. Ref No.: SDG No.: SM2225

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: MB-74975

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V5O8583.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 11/24/2013

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
179601-23-1	m,p-Xylene	1.0	U
95-47-6	o-Xylene	1.0	U
100-42-5	Styrene	1.0	U
75-25-2	Bromoform	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U
123-91-1	1,4-Dioxane	100	U
110-82-7	Cyclohexane	1.0	U
79-20-9	Methyl acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

LCS-74943

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M2225 Mod. Ref No.: SDG No.: SM2225

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: LCS-74943

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V5O8482.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 11/22/2013

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	41	
74-87-3	Chloromethane	49	
75-01-4	Vinyl Chloride	51	
74-83-9	Bromomethane	47	
75-00-3	Chloroethane	53	
75-69-4	Trichlorofluoromethane	55	
75-35-4	1,1-Dichloroethene	52	
67-64-1	Acetone	52	
75-15-0	Carbon Disulfide	51	
75-09-2	Methylene Chloride	51	
156-60-5	trans-1,2-Dichloroethene	50	
1634-04-4	Methyl tert-butyl ether	55	
75-34-3	1,1-Dichloroethane	53	
78-93-3	2-Butanone	54	
156-59-2	cis-1,2-Dichloroethene	54	
74-97-5	Bromochloromethane	51	
67-66-3	Chloroform	52	
71-55-6	1,1,1-Trichloroethane	52	
56-23-5	Carbon Tetrachloride	52	
107-06-2	1,2-Dichloroethane	52	
71-43-2	Benzene	50	
79-01-6	Trichloroethene	53	
78-87-5	1,2-Dichloropropane	49	
75-27-4	Bromodichloromethane	54	
10061-01-5	cis-1,3-Dichloropropene	51	
108-10-1	4-Methyl-2-pentanone	55	
108-88-3	Toluene	52	
10061-02-6	trans-1,3-Dichloropropene	54	
79-00-5	1,1,2-Trichloroethane	52	
127-18-4	Tetrachloroethene	52	
591-78-6	2-Hexanone	56	
124-48-1	Dibromochloromethane	57	
106-93-4	1,2-Dibromoethane	53	
108-90-7	Chlorobenzene	50	
100-41-4	Ethylbenzene	49	

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

LCS-74943

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M2225 Mod. Ref No.: SDG No.: SM2225

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: LCS-74943

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V5O8482.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 11/22/2013

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
179601-23-1	m,p-Xylene	98	
95-47-6	o-Xylene	52	
100-42-5	Styrene	52	
75-25-2	Bromoform	54	
98-82-8	Isopropylbenzene	51	
79-34-5	1,1,2,2-Tetrachloroethane	52	
541-73-1	1,3-Dichlorobenzene	49	
106-46-7	1,4-Dichlorobenzene	49	
95-50-1	1,2-Dichlorobenzene	51	
96-12-8	1,2-Dibromo-3-chloropropane	56	
120-82-1	1,2,4-Trichlorobenzene	50	
87-61-6	1,2,3-Trichlorobenzene	50	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	42	
123-91-1	1,4-Dioxane	1600	
110-82-7	Cyclohexane	45	
79-20-9	Methyl Acetate	51	
108-87-2	Methylcyclohexane	40	

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

LCS-74975

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M2225 Mod. Ref No.: SDG No.: SM2225

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: LCS-74975

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V5O8582.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 11/24/2013

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	37	
74-87-3	Chloromethane	43	
75-01-4	Vinyl chloride	43	
74-83-9	Bromomethane	43	
75-00-3	Chloroethane	46	
75-69-4	Trichlorofluoromethane	51	
75-35-4	1,1-Dichloroethene	48	
67-64-1	Acetone	49	
75-15-0	Carbon disulfide	47	
75-09-2	Methylene chloride	50	
156-60-5	trans-1,2-Dichloroethene	48	
1634-04-4	Methyl tert-butyl ether	51	
75-34-3	1,1-Dichloroethane	49	
78-93-3	2-Butanone	53	
156-59-2	cis-1,2-Dichloroethene	52	
74-97-5	Bromochloromethane	49	
67-66-3	Chloroform	49	
71-55-6	1,1,1-Trichloroethane	49	
56-23-5	Carbon tetrachloride	50	
107-06-2	1,2-Dichloroethane	50	
71-43-2	Benzene	48	
79-01-6	Trichloroethene	49	
78-87-5	1,2-Dichloropropane	50	
75-27-4	Bromodichloromethane	51	
10061-01-5	cis-1,3-Dichloropropene	49	
108-10-1	4-Methyl-2-pentanone	52	
108-88-3	Toluene	50	
10061-02-6	trans-1,3-Dichloropropene	52	
79-00-5	1,1,2-Trichloroethane	49	
127-18-4	Tetrachloroethene	47	
591-78-6	2-Hexanone	51	
124-48-1	Dibromochloromethane	52	
106-93-4	1,2-Dibromoethane	49	
108-90-7	Chlorobenzene	48	
100-41-4	Ethylbenzene	47	

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

LCS-74975

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M2225 Mod. Ref No.: SDG No.: SM2225

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: LCS-74975

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V5O8582.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 11/24/2013

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
179601-23-1	m,p-Xylene	92	
95-47-6	o-Xylene	49	
100-42-5	Styrene	49	
75-25-2	Bromoform	53	
98-82-8	Isopropylbenzene	48	
79-34-5	1,1,2,2-Tetrachloroethane	49	
541-73-1	1,3-Dichlorobenzene	48	
106-46-7	1,4-Dichlorobenzene	47	
95-50-1	1,2-Dichlorobenzene	49	
96-12-8	1,2-Dibromo-3-chloropropane	57	
120-82-1	1,2,4-Trichlorobenzene	51	
87-61-6	1,2,3-Trichlorobenzene	52	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	42	
123-91-1	1,4-Dioxane	1300	
110-82-7	Cyclohexane	46	
79-20-9	Methyl acetate	50	
108-87-2	Methylcyclohexane	42	

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-1_111113MS

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M2225 Mod. Ref No.: SDG No.: SM2225

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: M2225-03AMS

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V5O8488.D

Level: (TRACE/LOW/MED) LOW Date Received: 11/14/2013

% Moisture: not dec. Date Analyzed: 11/22/2013

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	36	
74-87-3	Chloromethane	39	
75-01-4	Vinyl Chloride	38	
74-83-9	Bromomethane	40	
75-00-3	Chloroethane	41	
75-69-4	Trichlorofluoromethane	29	
75-35-4	1,1-Dichloroethene	40	
67-64-1	Acetone	45	
75-15-0	Carbon Disulfide	39	
75-09-2	Methylene Chloride	46	
156-60-5	trans-1,2-Dichloroethene	42	
1634-04-4	Methyl tert-butyl ether	47	
75-34-3	1,1-Dichloroethane	44	
78-93-3	2-Butanone	54	
156-59-2	cis-1,2-Dichloroethene	48	
74-97-5	Bromochloromethane	44	
67-66-3	Chloroform	43	
71-55-6	1,1,1-Trichloroethane	42	
56-23-5	Carbon Tetrachloride	42	
107-06-2	1,2-Dichloroethane	45	
71-43-2	Benzene	43	
79-01-6	Trichloroethene	44	
78-87-5	1,2-Dichloropropane	43	
75-27-4	Bromodichloromethane	46	
10061-01-5	cis-1,3-Dichloropropene	46	
108-10-1	4-Methyl-2-pentanone	50	
108-88-3	Toluene	43	
10061-02-6	trans-1,3-Dichloropropene	49	
79-00-5	1,1,2-Trichloroethane	45	
127-18-4	Tetrachloroethene	42	
591-78-6	2-Hexanone	46	
124-48-1	Dibromochloromethane	48	
106-93-4	1,2-Dibromoethane	46	
108-90-7	Chlorobenzene	43	
100-41-4	Ethylbenzene	41	

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-1_111113MS

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M2225 Mod. Ref No.: SDG No.: SM2225

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: M2225-03AMS

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V5O8488.D

Level: (TRACE/LOW/MED) LOW Date Received: 11/14/2013

% Moisture: not dec. Date Analyzed: 11/22/2013

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
179601-23-1	m,p-Xylene	82	
95-47-6	o-Xylene	43	
100-42-5	Styrene	42	
75-25-2	Bromoform	49	
98-82-8	Isopropylbenzene	42	
79-34-5	1,1,2,2-Tetrachloroethane	45	
541-73-1	1,3-Dichlorobenzene	42	
106-46-7	1,4-Dichlorobenzene	42	
95-50-1	1,2-Dichlorobenzene	43	
96-12-8	1,2-Dibromo-3-chloropropane	51	
120-82-1	1,2,4-Trichlorobenzene	42	
87-61-6	1,2,3-Trichlorobenzene	43	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	38	
123-91-1	1,4-Dioxane	1100	
110-82-7	Cyclohexane	38	
79-20-9	Methyl Acetate	47	
108-87-2	Methylcyclohexane	38	

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-1_111113MSD

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M2225 Mod. Ref No.: SDG No.: SM2225

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: M2225-03AMSD

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V5O8489.D

Level: (TRACE/LOW/MED) LOW Date Received: 11/14/2013

% Moisture: not dec. Date Analyzed: 11/22/2013

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	43	
74-87-3	Chloromethane	45	
75-01-4	Vinyl Chloride	45	
74-83-9	Bromomethane	44	
75-00-3	Chloroethane	44	
75-69-4	Trichlorofluoromethane	51	
75-35-4	1,1-Dichloroethene	45	
67-64-1	Acetone	49	
75-15-0	Carbon Disulfide	45	
75-09-2	Methylene Chloride	48	
156-60-5	trans-1,2-Dichloroethene	45	
1634-04-4	Methyl tert-butyl ether	50	
75-34-3	1,1-Dichloroethane	48	
78-93-3	2-Butanone	51	
156-59-2	cis-1,2-Dichloroethene	49	
74-97-5	Bromochloromethane	49	
67-66-3	Chloroform	47	
71-55-6	1,1,1-Trichloroethane	48	
56-23-5	Carbon Tetrachloride	48	
107-06-2	1,2-Dichloroethane	49	
71-43-2	Benzene	46	
79-01-6	Trichloroethene	50	
78-87-5	1,2-Dichloropropane	46	
75-27-4	Bromodichloromethane	49	
10061-01-5	cis-1,3-Dichloropropene	50	
108-10-1	4-Methyl-2-pentanone	53	
108-88-3	Toluene	48	
10061-02-6	trans-1,3-Dichloropropene	54	
79-00-5	1,1,2-Trichloroethane	49	
127-18-4	Tetrachloroethene	48	
591-78-6	2-Hexanone	56	
124-48-1	Dibromochloromethane	55	
106-93-4	1,2-Dibromoethane	52	
108-90-7	Chlorobenzene	48	
100-41-4	Ethylbenzene	46	

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-1_111113MSD

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M2225 Mod. Ref No.: SDG No.: SM2225

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: M2225-03AMSD

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V5O8489.D

Level: (TRACE/LOW/MED) LOW Date Received: 11/14/2013

% Moisture: not dec. Date Analyzed: 11/22/2013

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
179601-23-1	m,p-Xylene	93	
95-47-6	o-Xylene	50	
100-42-5	Styrene	49	
75-25-2	Bromoform	54	
98-82-8	Isopropylbenzene	47	
79-34-5	1,1,2,2-Tetrachloroethane	50	
541-73-1	1,3-Dichlorobenzene	47	
106-46-7	1,4-Dichlorobenzene	46	
95-50-1	1,2-Dichlorobenzene	47	
96-12-8	1,2-Dibromo-3-chloropropane	55	
120-82-1	1,2,4-Trichlorobenzene	49	
87-61-6	1,2,3-Trichlorobenzene	49	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	44	
123-91-1	1,4-Dioxane	1200	
110-82-7	Cyclohexane	44	
79-20-9	Methyl Acetate	47	
108-87-2	Methylcyclohexane	42	

2B - FORM II VOA-2

WATER VOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M2225 Mod. Ref No.: SDG No.: SM2225

Level: (TRACE or LOW) LOW

	CLIENT SAMPLE NO.	VDMC1 (DBFM) #	VDMC2 (DCE) #	VDMC3 (TOL) #	VDMC4 (BFB) #				TOT OUT
01	LCS-74943	100	101	104	103				0
02	MB-74943	99	98	102	104				0
03	MW-1_111113MS	97	93	99	99				0
04	MW-1_111113MSD	97	99	102	100				0
05	MW-12_111113	99	95	96	95				0
06	MW-10B_111113	103	97	99	97				0
07	MW-1_111113	99	99	100	99				0
08	MW-6R_111113	101	98	98	100				0
09	MW-7R_111113	99	103	97	99				0
10	MW-X_111113	98	100	98	97				0
11	MW-4_111113	103	101	102	99				0
12	MW-5_111213	100	101	100	101				0
13	MW-9_111213	103	99	99	100				0
14	MW-11B_111313	102	98	97	97				0
15	MW-8_111313	97	99	96	98				0
16	TRIPBLANK_111113	98	104	99	98				0
17	LCS-74975	99	95	99	104				0
18	MB-74975	100	94	100	101				0
19	MW-7R_111113DL	102	96	102	103				0
20	MW-X_111113DL	100	97	101	102				0
21	MW-3_111113	101	100	101	103				0

		QC LIMITS
VDMC1	(DBFM) Dibromofluoromethane	(85-115)
VDMC2	(DCE) = 1,2-Dichloroethane-d4	(70-120)
VDMC3	(TOL) = Toluene-d8	(85-120)
VDMC4	(BFB) = Bromofluorobenzene	(75-120)

Column to be used to flag recovery values

* Values outside of contract required QC limits

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3A - FORM III VOA-1

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M2225 Mod. Ref No.: SDG No.: SM2225

Matrix Spike - EPA Sample No.: MW-1_111113 Level: (TRACE or LOW) LOW

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS %REC	#	QC. LIMITS REC.
Dichlorodifluoromethane	50.0000	0.0000	35.9063	72		30-155
Chloromethane	50.0000	0.0000	38.8909	78		40-125
Vinyl Chloride	50.0000	0.0000	38.0254	76		50-145
Bromomethane	50.0000	0.0000	40.4564	81		30-145
Chloroethane	50.0000	0.0000	41.3330	83		60-135
Trichlorofluoromethane	50.0000	0.0000	28.7921	58	*	60-145
1,1-Dichloroethene	50.0000	0.0000	40.1185	80		70-130
Acetone	50.0000	0.0000	45.3420	91		40-140
Carbon Disulfide	50.0000	0.0000	39.4039	79		35-160
Methylene Chloride	50.0000	0.0000	45.5818	91		55-140
trans-1,2-Dichloroethen	50.0000	0.0000	42.2205	84		60-140
Methyl tert-butyl ether	50.0000	0.0000	46.6453	93		65-125
1,1-Dichloroethane	50.0000	0.0000	44.3510	89		70-135
2-Butanone	50.0000	0.0000	53.5719	107		30-150
cis-1,2-Dichloroethene	50.0000	0.0000	47.7706	96		70-125
Bromochloromethane	50.0000	0.0000	43.9691	88		65-130
Chloroform	50.0000	0.0000	43.4444	87		65-135
1,1,1-Trichloroethane	50.0000	0.0000	42.0186	84		65-130
Carbon Tetrachloride	50.0000	0.0000	42.4694	85		65-140
1,2-Dichloroethane	50.0000	0.0000	45.1676	90		70-130
Benzene	50.0000	0.0000	42.7919	86		80-120
Trichloroethene	50.0000	0.0000	44.1233	88		70-125
1,2-Dichloropropane	50.0000	0.0000	43.4188	87		75-125
Bromodichloromethane	50.0000	0.0000	45.5606	91		75-120
cis-1,3-Dichloropropene	50.0000	0.0000	46.4606	93		70-130
4-Methyl-2-pentanone	50.0000	0.0000	50.4091	101		60-135
Toluene	50.0000	0.0000	43.4495	87		75-120
trans-1,3-Dichloroprope	50.0000	0.0000	49.2829	99		55-140
1,1,2-Trichloroethane	50.0000	0.0000	45.2986	91		75-125
Tetrachloroethene	50.0000	1.4188	42.4312	82		45-150
2-Hexanone	50.0000	0.0000	46.0900	92		55-130
Dibromochloromethane	50.0000	0.0000	47.8703	96		60-135
1,2-Dibromoethane	50.0000	0.0000	46.4503	93		80-120
Chlorobenzene	50.0000	0.0000	43.4524	87		80-120
Ethylbenzene	50.0000	0.0000	40.6311	81		75-125
m,p-Xylene	100.0000	0.0000	82.4902	82		75-130
o-Xylene	50.0000	0.0000	42.9706	86		80-120
Styrene	50.0000	0.0000	42.2825	85		65-135
Bromoform	50.0000	0.0000	48.6040	97		70-130
Isopropylbenzene	50.0000	0.0000	41.9667	84		75-125
1,1,2,2-Tetrachloroetha	50.0000	0.0000	45.3933	91		65-130
1,3-Dichlorobenzene	50.0000	0.0000	41.8417	84		75-125
1,4-Dichlorobenzene	50.0000	0.0000	41.8843	84		75-125
1,2-Dichlorobenzene	50.0000	0.0000	42.8883	86		70-120

3A - FORM III VOA-1

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M2225 Mod. Ref No.: SDG No.: SM2225

Matrix Spike - EPA Sample No.: MW-1_111113 Level: (TRACE or LOW) LOW

1,2-Dibromo-3-chloropro	50.0000	0.0000	51.1814	102		50-130
1,2,4-Trichlorobenzene	50.0000	0.0000	41.9146	84		65-135
1,2,3-Trichlorobenzene	50.0000	0.0000	42.6452	85		55-140
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0000	0.0000	37.8982	76		70-130
1,4-Dioxane	1000.0000	0.0000	1064.2620	106		70-130
Cyclohexane	50.0000	0.0000	38.3493	77		70-130
Methyl Acetate	50.0000	0.0000	47.1343	94		70-130
Methylcyclohexane	50.0000	0.0000	38.1218	76		70-130

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD %REC	#	%RPD	#	QC LIMITS RPD	QC LIMITS REC.
Dichlorodifluoromethane	50.0000	43.1318	86		18		0-40	30-155
Chloromethane	50.0000	45.0485	90		15		0-40	40-125
Vinyl Chloride	50.0000	44.6307	89		16		0-40	50-145
Bromomethane	50.0000	44.0288	88		8		0-40	30-145
Chloroethane	50.0000	43.9190	88		6		0-40	60-135
Trichlorofluoromethane	50.0000	50.7376	101		55	*	0-40	60-145
1,1-Dichloroethene	50.0000	44.8191	90		11		0-40	70-130
Acetone	50.0000	49.2062	98		8		0-40	40-140
Carbon Disulfide	50.0000	44.8609	90		13		0-40	35-160
Methylene Chloride	50.0000	48.4681	97		6		0-40	55-140
trans-1,2-Dichloroethen	50.0000	44.9947	90		6		0-40	60-140
Methyl tert-butyl ether	50.0000	50.1447	100		7		0-40	65-125
1,1-Dichloroethane	50.0000	47.8545	96		8		0-40	70-135
2-Butanone	50.0000	50.8797	102		5		0-40	30-150
cis-1,2-Dichloroethene	50.0000	49.4686	99		3		0-40	70-125
Bromochloromethane	50.0000	49.0338	98		11		0-40	65-130
Chloroform	50.0000	46.8762	94		8		0-40	65-135
1,1,1-Trichloroethane	50.0000	47.5613	95		12		0-40	65-130
Carbon Tetrachloride	50.0000	48.3108	97		13		0-40	65-140
1,2-Dichloroethane	50.0000	49.3912	99		9		0-40	70-130
Benzene	50.0000	45.5046	91		6		0-40	80-120
Trichloroethene	50.0000	49.7230	99		12		0-40	70-125
1,2-Dichloropropane	50.0000	46.4811	93		7		0-40	75-125
Bromodichloromethane	50.0000	48.8167	98		7		0-40	75-120
cis-1,3-Dichloropropene	50.0000	49.8782	100		7		0-40	70-130
4-Methyl-2-pentanone	50.0000	52.5035	105		4		0-40	60-135
Toluene	50.0000	48.2381	96		10		0-40	75-120
trans-1,3-Dichloroprope	50.0000	54.3843	109		10		0-40	55-140
1,1,2-Trichloroethane	50.0000	48.6487	97		7		0-40	75-125
Tetrachloroethene	50.0000	48.2502	94		13		0-40	45-150
2-Hexanone	50.0000	55.5915	111		19		0-40	55-130
Dibromochloromethane	50.0000	54.6434	109		13		0-40	60-135
1,2-Dibromoethane	50.0000	51.5510	103		10		0-40	80-120
Chlorobenzene	50.0000	47.6014	95		9		0-40	80-120
Ethylbenzene	50.0000	45.7167	91		12		0-40	75-125

3A - FORM III VOA-1

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M2225 Mod. Ref No.: SDG No.: SM2225

Matrix Spike - EPA Sample No.: MW-1_111113 Level: (TRACE or LOW) LOW

m,p-Xylene	100.0000	92.6156	93		12		0-40	75-130
o-Xylene	50.0000	49.7012	99		15		0-40	80-120
Styrene	50.0000	48.8770	98		14		0-40	65-135
Bromoform	50.0000	53.8238	108		10		0-40	70-130
Isopropylbenzene	50.0000	46.8764	94		11		0-40	75-125
1,1,2,2-Tetrachloroetha	50.0000	49.5547	99		9		0-40	65-130
1,3-Dichlorobenzene	50.0000	46.8391	94		11		0-40	75-125
1,4-Dichlorobenzene	50.0000	46.4551	93		10		0-40	75-125
1,2-Dichlorobenzene	50.0000	47.4050	95		10		0-40	70-120
1,2-Dibromo-3-chloropro	50.0000	54.9588	110		7		0-40	50-130
1,2,4-Trichlorobenzene	50.0000	49.3140	99		16		0-40	65-135
1,2,3-Trichlorobenzene	50.0000	49.4640	99		15		0-40	55-140
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0000	43.5476	87		14		0-40	70-130
1,4-Dioxane	1000.0000	1219.8163	122		14		0-40	70-130
Cyclohexane	50.0000	43.6797	87		13		0-40	70-130
Methyl Acetate	50.0000	46.8349	94		1		0-40	70-130
Methylcyclohexane	50.0000	41.8746	84		9		0-40	70-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 1 out of 52 outside limits

Spike Recovery: 1 out of 104 outside limits

COMMENTS:

3 - FORM III
WATER LABORATORY CONTROL
SAMPLE RECOVERY

CLIENT SAMPLE NO.
LCS-74943

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M2225 Mod. Ref No.: SDG No.: SM2225

Lab Sample ID: LCS-74943 LCS Lot No.:

Date Extracted: 11/21/2013 Date Analyzed (1): 11/22/2013

COMPOUND	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS %REC	#	QC. LIMITS REC.
Dichlorodifluoromethane	50.0000	0.0000	40.8299	82		30 - 155
Chloromethane	50.0000	0.0000	49.3900	99		40 - 125
Vinyl Chloride	50.0000	0.0000	50.7199	101		50 - 145
Bromomethane	50.0000	0.0000	47.4052	95		30 - 145
Chloroethane	50.0000	0.0000	52.6570	105		60 - 135
Trichlorofluoromethane	50.0000	0.0000	54.5873	109		60 - 145
1,1-Dichloroethene	50.0000	0.0000	51.7835	104		70 - 130
Acetone	50.0000	0.0000	52.1745	104		40 - 140
Carbon Disulfide	50.0000	0.0000	51.0976	102		35 - 160
Methylene Chloride	50.0000	0.0000	51.3701	103		55 - 140
trans-1,2-Dichloroethene	50.0000	0.0000	50.3756	101		60 - 140
Methyl tert-butyl ether	50.0000	0.0000	55.0162	110		65 - 125
1,1-Dichloroethane	50.0000	0.0000	53.3871	107		70 - 135
2-Butanone	50.0000	0.0000	53.9257	108		30 - 150
cis-1,2-Dichloroethene	50.0000	0.0000	53.7173	107		70 - 125
Bromochloromethane	50.0000	0.0000	50.5990	101		65 - 130
Chloroform	50.0000	0.0000	51.5942	103		65 - 135
1,1,1-Trichloroethane	50.0000	0.0000	51.7554	104		65 - 130
Carbon Tetrachloride	50.0000	0.0000	52.3302	105		65 - 140
1,2-Dichloroethane	50.0000	0.0000	52.4689	105		70 - 130
Benzene	50.0000	0.0000	50.1753	100		80 - 120
Trichloroethene	50.0000	0.0000	52.7957	106		70 - 125
1,2-Dichloropropane	50.0000	0.0000	49.2813	99		75 - 125
Bromodichloromethane	50.0000	0.0000	53.5151	107		75 - 120
cis-1,3-Dichloropropene	50.0000	0.0000	50.5142	101		70 - 130
4-Methyl-2-pentanone	50.0000	0.0000	55.2134	110		60 - 135
Toluene	50.0000	0.0000	52.0849	104		75 - 120
trans-1,3-Dichloropropene	50.0000	0.0000	54.1488	108		55 - 140
1,1,2-Trichloroethane	50.0000	0.0000	51.8546	104		75 - 125
Tetrachloroethene	50.0000	0.0000	51.5865	103		45 - 150
2-Hexanone	50.0000	0.0000	56.1197	112		55 - 130
Dibromochloromethane	50.0000	0.0000	57.2057	114		60 - 135
1,2-Dibromoethane	50.0000	0.0000	53.1640	106		80 - 120
Chlorobenzene	50.0000	0.0000	50.0901	100		80 - 120
Ethylbenzene	50.0000	0.0000	49.0463	98		75 - 125
m,p-Xylene	100.0000	0.0000	98.1240	98		75 - 130
o-Xylene	50.0000	0.0000	51.8155	104		80 - 120
Styrene	50.0000	0.0000	51.5661	103		65 - 135
Bromoform	50.0000	0.0000	54.1570	108		70 - 130
Isopropylbenzene	50.0000	0.0000	50.8554	102		75 - 125
1,1,2,2-Tetrachloroethane	50.0000	0.0000	51.7279	103		65 - 130
1,3-Dichlorobenzene	50.0000	0.0000	48.6168	97		75 - 125
1,4-Dichlorobenzene	50.0000	0.0000	48.5516	97		75 - 125
1,2-Dichlorobenzene	50.0000	0.0000	51.3276	103		70 - 120

3 - FORM III
WATER LABORATORY CONTROL
SAMPLE RECOVERY

CLIENT SAMPLE NO.
LCS-74943

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M2225 Mod. Ref No.: SDG No.: SM2225

Lab Sample ID: LCS-74943 LCS Lot No.:

Date Extracted: 11/21/2013 Date Analyzed (1): 11/22/2013

COMPOUND	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS %REC	#	QC. LIMITS REC.
1,2-Dibromo-3-chloropropan	50.0000	0.0000	56.2522	113		50 - 130
1,2,4-Trichlorobenzene	50.0000	0.0000	50.3988	101		65 - 135
1,2,3-Trichlorobenzene	50.0000	0.0000	50.0616	100		55 - 140
1,1,2-Trichloro-1,2,2-trif	50.0000	0.0000	42.3604	85		70 - 130
1,4-Dioxane	1000.0000	0.0000	1615.9944	162	*	70 - 130
Cyclohexane	50.0000	0.0000	44.7868	90		70 - 130
Methyl Acetate	50.0000	0.0000	51.4074	103		70 - 130
Methylcyclohexane	50.0000	0.0000	40.4633	81		70 - 130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 1 out of 52 outside limits

COMMENTS:

3 - FORM III
WATER LABORATORY CONTROL
SAMPLE RECOVERY

CLIENT SAMPLE NO.
LCS-74975

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M2225 Mod. Ref No.: SDG No.: SM2225

Lab Sample ID: LCS-74975 LCS Lot No.:

Date Extracted: 11/23/2013 Date Analyzed (1): 11/24/2013

COMPOUND	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS %REC	#	QC. LIMITS REC.
Dichlorodifluoromethane	50.0000	0.0000	36.6286	73		30 - 155
Chloromethane	50.0000	0.0000	42.6431	85		40 - 125
Vinyl chloride	50.0000	0.0000	43.0887	86		50 - 145
Bromomethane	50.0000	0.0000	43.1679	86		30 - 145
Chloroethane	50.0000	0.0000	45.7773	92		60 - 135
Trichlorofluoromethane	50.0000	0.0000	50.5402	101		60 - 145
1,1-Dichloroethene	50.0000	0.0000	47.5204	95		70 - 130
Acetone	50.0000	0.0000	48.6997	97		40 - 140
Carbon disulfide	50.0000	0.0000	46.9230	94		35 - 160
Methylene chloride	50.0000	0.0000	50.4415	101		55 - 140
trans-1,2-Dichloroethene	50.0000	0.0000	47.8240	96		60 - 140
Methyl tert-butyl ether	50.0000	0.0000	51.1790	102		65 - 125
1,1-Dichloroethane	50.0000	0.0000	49.1164	98		70 - 135
2-Butanone	50.0000	0.0000	52.8993	106		30 - 150
cis-1,2-Dichloroethene	50.0000	0.0000	51.6590	103		70 - 125
Bromochloromethane	50.0000	0.0000	48.8324	98		65 - 130
Chloroform	50.0000	0.0000	49.0912	98		65 - 135
1,1,1-Trichloroethane	50.0000	0.0000	49.2577	99		65 - 130
Carbon tetrachloride	50.0000	0.0000	50.4001	101		65 - 140
1,2-Dichloroethane	50.0000	0.0000	49.6352	99		70 - 130
Benzene	50.0000	0.0000	47.7246	95		80 - 120
Trichloroethene	50.0000	0.0000	49.4066	99		70 - 125
1,2-Dichloropropane	50.0000	0.0000	49.7811	100		75 - 125
Bromodichloromethane	50.0000	0.0000	50.9945	102		75 - 120
cis-1,3-Dichloropropene	50.0000	0.0000	49.2792	99		70 - 130
4-Methyl-2-pentanone	50.0000	0.0000	52.4306	105		60 - 135
Toluene	50.0000	0.0000	49.8033	100		75 - 120
trans-1,3-Dichloropropene	50.0000	0.0000	52.0099	104		55 - 140
1,1,2-Trichloroethane	50.0000	0.0000	48.7260	97		75 - 125
Tetrachloroethene	50.0000	0.0000	46.8912	94		45 - 150
2-Hexanone	50.0000	0.0000	51.2646	103		55 - 130
Dibromochloromethane	50.0000	0.0000	51.6826	103		60 - 135
1,2-Dibromoethane	50.0000	0.0000	48.5006	97		80 - 120
Chlorobenzene	50.0000	0.0000	48.3676	97		80 - 120
Ethylbenzene	50.0000	0.0000	47.1557	94		75 - 125
m,p-Xylene	100.0000	0.0000	92.0478	92		75 - 130
o-Xylene	50.0000	0.0000	49.1026	98		80 - 120
Styrene	50.0000	0.0000	48.6681	97		65 - 135
Bromoform	50.0000	0.0000	52.9516	106		70 - 130
Isopropylbenzene	50.0000	0.0000	48.1224	96		75 - 125
1,1,2,2-Tetrachloroethane	50.0000	0.0000	49.4296	99		65 - 130
1,3-Dichlorobenzene	50.0000	0.0000	47.5401	95		75 - 125
1,4-Dichlorobenzene	50.0000	0.0000	47.0440	94		75 - 125
1,2-Dichlorobenzene	50.0000	0.0000	48.5540	97		70 - 120

3 - FORM III
WATER LABORATORY CONTROL
SAMPLE RECOVERY

CLIENT SAMPLE NO.
LCS-74975

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M2225 Mod. Ref No.: SDG No.: SM2225

Lab Sample ID: LCS-74975 LCS Lot No.:

Date Extracted: 11/23/2013 Date Analyzed (1): 11/24/2013

COMPOUND	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS %REC	#	QC. LIMITS REC.
1,2-Dibromo-3-chloropropan	50.0000	0.0000	57.0730	114		50 - 130
1,2,4-Trichlorobenzene	50.0000	0.0000	50.6561	101		65 - 135
1,2,3-Trichlorobenzene	50.0000	0.0000	52.4317	105		55 - 140
1,1,2-Trichloro-1,2,2-trif	50.0000	0.0000	42.1382	84		70 - 130
1,4-Dioxane	1000.0000	0.0000	1339.3230	134	*	70 - 130
Cyclohexane	50.0000	0.0000	45.9570	92		70 - 130
Methyl acetate	50.0000	0.0000	50.1994	100		70 - 130
Methylcyclohexane	50.0000	0.0000	41.8287	84		70 - 130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 1 out of 52 outside limits

COMMENTS:

4A - FORM IV VOA
VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.
MB-74943

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M2225 Mod. Ref No.: SDG No.: SM2225

Lab File ID: V5O8484.D Lab Sample ID: MB-74943

Instrument ID: V5

Matrix: (SOIL/SED/WATER) WATER Date Analyzed: 11/22/2013

Level: (TRACE or LOW/MED) LOW Time Analyzed: 8:41

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	LCS-74943	LCS-74943	V5O8482.D	7:50
02	MW-1_111113MS	M2225-03AMS	V5O8488.D	10:24
03	MW-1_111113MSD	M2225-03AMSD	V5O8489.D	10:49
04	MW-12_111113	M2225-01A	V5O8492.D	12:03
05	MW-10B_111113	M2225-02A	V5O8493.D	12:28
06	MW-1_111113	M2225-03A	V5O8494.D	12:54
07	MW-6R_111113	M2225-04A	V5O8495.D	13:19
08	MW-7R_111113	M2225-05A	V5O8496.D	13:44
09	MW-X_111113	M2225-06A	V5O8497.D	14:10
10	MW-4_111113	M2225-08A	V5O8499.D	15:00
11	MW-5_111213	M2225-09A	V5O8500.D	15:26
12	MW-9_111213	M2225-10A	V5O8501.D	15:51
13	MW-11B_111313	M2225-11A	V5O8502.D	16:17
14	MW-8_111313	M2225-12A	V5O8503.D	16:42
15	TRIPBLANK_111113	M2225-13A	V5O8504.D	17:07

COMMENTS:

som13.11.29.0851

4A - FORM IV VOA

VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

MB-74975

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M2225 Mod. Ref No.: SDG No.: SM2225

Lab File ID: V5O8583.D Lab Sample ID: MB-74975

Instrument ID: V5

Matrix: (SOIL/SED/WATER) WATER Date Analyzed: 11/24/2013

Level: (TRACE or LOW/MED) LOW Time Analyzed: 11:21

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	LCS-74975	LCS-74975	V5O8582.D	10:30
02	MW-7R_111113 DL	M2225-05ADL	V5O8584.D	11:47
03	MW-X_111113D L	M2225-06ADL	V5O8585.D	12:13
04	MW-3_111113	M2225-07A	V5O8586.D	12:38

COMMENTS:

som13.11.29.0851

8A - FORM VIII VOA

VOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M2225 Mod. Ref No.: SDG No.: SM2225

GC Column: DB-624 ID: 0.25 (mm) Init. Calib. Date(s): 11/21/2013 11/21/2013

EPA Sample No.(VSTD#####): VSTD050O5 Date Analyzed: 11/22/2013

Lab File ID (Standard): V5O8481.D Time Analyzed: 7:07

Instrument ID: V5 Heated Purge: (Y/N) N

		IS1 (S1) AREA	#	RT	#	IS2 (S2) AREA	#	RT	#	IS3 (S3) AREA	#	RT	#
	12 HOUR STD	396690		5.581		280782		9.04		124220		12.21	
	UPPER LIMIT	793380		6.081		561564		9.54		248440		12.71	
	LOWER LIMIT	198345		5.081		140391		8.54		62110		11.71	
	SAMPLE NO.												
01	LCS-74943	392922		5.580		278844		9.040		121990		12.209	
02	MB-74943	389258		5.580		269310		9.052		123551		12.210	
03	MW-1_111113MS	361047		5.575		260313		9.046		115940		12.204	
04	MW-1_111113MSD	365109		5.579		257346		9.050		115482		12.208	
05	MW-12_111113	344298		5.582		254682		9.042		104374		12.211	
06	MW-10B_111113	336810		5.576		247606		9.047		106199		12.205	
07	MW-1_111113	338550		5.582		241846		9.041		102238		12.211	
08	MW-6R_111113	332338		5.581		244242		9.040		102954		12.210	
09	MW-7R_111113	327073		5.581		240235		9.041		100356		12.210	
10	MW-X_111113	328249		5.580		239510		9.040		99896		12.210	
11	MW-4_111113	317168		5.581		232897		9.041		101917		12.210	
12	MW-5_111213	316129		5.581		229870		9.041		99921		12.211	
13	MW-9_111213	314829		5.578		234087		9.049		97189		12.207	

IS1 () = Fluorobenzene
IS2 () = Chlorobenzene-d5
IS3 () = 1,4-Dichlorobenzene-d4
AREA UPPER LIMIT = 200% (Low-Medium Volatiles) and 140% (Trace Volatiles) of internal standard area
AREA LOWER LIMIT = 50% (Low-Medium Volatiles) and 60% (Trace Volatiles) of internal standard area
RT UPPER LIMIT = +0.50 (Low-Medium Volatiles) and +0.33 (Trace Volatiles) minutes of internal standard RT
RT LOWER LIMIT = -0.50 (Low-Medium Volatiles) and -0.33 (Trace Volatiles) minutes of internal standard RT

Column used to flag values outside contract required QC limits with an asterisk.

8A - FORM VIII VOA

VOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M2225 Mod. Ref No.: SDG No.: SM2225

GC Column: DB-624 ID: 0.25 (mm) Init. Calib. Date(s): 11/21/2013 11/21/2013

EPA Sample No.(VSTD#####): VSTD050O5 Date Analyzed: 11/22/2013

Lab File ID (Standard): V5O8481.D Time Analyzed: 7:07

Instrument ID: V5 Heated Purge: (Y/N) N

		IS1 (S1) AREA	#	RT	#	IS2 (S2) AREA	#	RT	#	IS3 (S3) AREA	#	RT	#
	12 HOUR STD	396690		5.581		280782		9.04		124220		12.21	
	UPPER LIMIT	793380		6.081		561564		9.54		248440		12.71	
	LOWER LIMIT	198345		5.081		140391		8.54		62110		11.71	
	SAMPLE NO.												
14	MW-11B_111313	310500		5.580		234278		9.051		97536		12.209	
15	MW-8_111313	310649		5.579		231224		9.050		97253		12.208	
16	TRIPBLANK_111113	309125		5.575		225538		9.046		98045		12.204	

IS1 () = Fluorobenzene
IS2 () = Chlorobenzene-d5
IS3 () = 1,4-Dichlorobenzene-d4
AREA UPPER LIMIT = 200% (Low-Medium Volatiles) and 140% (Trace Volatiles) of internal standard area
AREA LOWER LIMIT = 50% (Low-Medium Volatiles) and 60% (Trace Volatiles) of internal standard area
RT UPPER LIMIT = +0.50 (Low-Medium Volatiles) and +0.33 (Trace Volatiles) minutes of internal standard RT
RT LOWER LIMIT = -0.50 (Low-Medium Volatiles) and -0.33 (Trace Volatiles) minutes of internal standard RT

Column used to flag values outside contract required QC limits with an asterisk.

som13.11.29.0851

8A - FORM VIII VOA

VOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: M2225 Mod. Ref No.: SDG No.: SM2225

GC Column: DB-624 ID: 0.25 (mm) Init. Calib. Date(s): 11/21/2013 11/21/2013

EPA Sample No.(VSTD#####): VSTD050S5 Date Analyzed: 11/24/2013

Lab File ID (Standard): V5O8581.D Time Analyzed: 10:05

Instrument ID: V5 Heated Purge: (Y/N) N

		IS1 (S1) AREA	#	RT	#	IS2 (S2) AREA	#	RT	#	IS3 (S3) AREA	#	RT	#
	12 HOUR STD	345040		5.577		244488		9.048		115458		12.206	
	UPPER LIMIT	690080		6.077		488976		9.548		230916		12.706	
	LOWER LIMIT	172520		5.077		122244		8.548		57729		11.706	
	SAMPLE NO.												
01	LCS-74975	346602		5.579		249700		9.050		111524		12.208	
02	MB-74975	342199		5.581		240686		9.040		111639		12.210	
03	MW-7R_111113 DL	332332		5.581		233707		9.041		108372		12.210	
04	MW-X_111113D L	330824		5.579		229422		9.050		107098		12.208	
05	MW-3_111113	323771		5.576		222655		9.047		107362		12.205	

IS1 () = Fluorobenzene
IS2 () = Chlorobenzene-d5
IS3 () = 1,4-Dichlorobenzene-d4
AREA UPPER LIMIT = 200% (Low-Medium Volatiles) and 140% (Trace Volatiles) of internal standard area
AREA LOWER LIMIT = 50% (Low-Medium Volatiles) and 60% (Trace Volatiles) of internal standard area
RT UPPER LIMIT = +0.50 (Low-Medium Volatiles) and +0.33 (Trace Volatiles) minutes of internal standard RT
RT LOWER LIMIT = -0.50 (Low-Medium Volatiles) and -0.33 (Trace Volatiles) minutes of internal standard RT

Column used to flag values outside contract required QC limits with an asterisk.

som13.11.29.0851

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October 12, 2012

Stefan Bagnato
Arcadis US, Inc. - Clifton Park-NY
855 Route 146, Suite 210
Clifton Park, NY 12065

Project Location: Cohoes, NY
Client Job Number:
Project Number: 00266396
Laboratory Work Order Number: 12J0233

Enclosed are results of analyses for samples received by the laboratory on October 5, 2012. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Paula E. Blakeborough
Project Manager

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

Arcadis US, Inc. - Clifton Park-NY
855 Route 146, Suite 210
Clifton Park, NY 12065
ATTN: Stefan Bagnato

REPORT DATE: 10/12/2012

PURCHASE ORDER NUMBER: 00266396

PROJECT NUMBER: 00266396

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 12J0233

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

PROJECT LOCATION: Cohoes, NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
SV-6	12J0233-01	Soil Gas		EPA TO-15	
SV-7	12J0233-02	Soil Gas		EPA TO-15	
Dup	12J0233-03	Soil Gas		EPA TO-15	
SV-2	12J0233-04	Soil Gas		EPA TO-15	
SV-1	12J0233-05	Soil Gas		EPA TO-15	
SV-8	12J0233-06	Soil Gas		EPA TO-15	
SV-10	12J0233-09	Soil Gas		EPA TO-15	
Ambient Air 2	12J0233-10	Ambient Air		EPA TO-15	
SV-9	12J0233-11	Soil Gas		EPA TO-15	

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CASE NARRATIVE SUMMARY

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

EPA TO-15

Qualifications:

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

Analyte & Samples(s) Qualified:

Ethyl Acetate, trans-1,3-Dichloropropene

B060616-BS1, B060614-BS1

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

Analyte & Samples(s) Qualified:

Bromoform, Ethyl Acetate, Tetrahydrofuran, trans-1,3-Dichloropropene

B060614-BS1, B060616-BS1, S003006-CCV1, S003007-CCV1

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Michael A. Erickson
Laboratory Director

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ANALYTICAL RESULTS

Project Location: Cohoes, NY
Date Received: 10/5/2012
Field Sample #: SV-6
Sample ID: 12J0233-01
Sample Matrix: Soil Gas
Sampled: 10/4/2012 09:42

Sample Description/Location:
Sub Description/Location:
Canister ID: 1265
Canister Size: 6 liter
Flow Controller ID: 4221
Sample Type: 1 hr

Work Order: 12J0233
Initial Vacuum(in Hg): -29.5
Final Vacuum(in Hg): -3
Receipt Vacuum(in Hg): -3.7
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

	ppbv			ug/m3			Date/Time	
Analyte	**Results**	**RL**	**Flag**	**Results**	**RL**	**Dilution**	**Analyzed**	**Analyst**
Acetone	ND	40		ND	95	20	10/6/12 5:45	WSD
Benzene	ND	1.0		ND	3.2	20	10/6/12 5:45	WSD
Benzyl chloride	ND	1.0		ND	5.2	20	10/6/12 5:45	WSD
Bromodichloromethane	ND	1.0		ND	6.7	20	10/6/12 5:45	WSD
Bromoform	ND	1.0		ND	10	20	10/6/12 5:45	WSD
Bromomethane	ND	1.0		ND	3.9	20	10/6/12 5:45	WSD
1,3-Butadiene	ND	1.0		ND	2.2	20	10/6/12 5:45	WSD
2-Butanone (MEK)	ND	40		ND	120	20	10/6/12 5:45	WSD
Carbon Disulfide	ND	10		ND	31	20	10/6/12 5:45	WSD
Carbon Tetrachloride	ND	1.0		ND	6.3	20	10/6/12 5:45	WSD
Chlorobenzene	ND	1.0		ND	4.6	20	10/6/12 5:45	WSD
Chloroethane	ND	1.0		ND	2.6	20	10/6/12 5:45	WSD
Chloroform	5.1	1.0		25	4.9	20	10/6/12 5:45	WSD
Chloromethane	ND	1.0		ND	2.1	20	10/6/12 5:45	WSD
Cyclohexane	ND	1.0		ND	3.4	20	10/6/12 5:45	WSD
Dibromochloromethane	ND	1.0		ND	8.5	20	10/6/12 5:45	WSD
1,2-Dibromoethane (EDB)	ND	1.0		ND	7.7	20	10/6/12 5:45	WSD
1,2-Dichlorobenzene	ND	1.0		ND	6.0	20	10/6/12 5:45	WSD
1,3-Dichlorobenzene	ND	1.0		ND	6.0	20	10/6/12 5:45	WSD
1,4-Dichlorobenzene	ND	1.0		ND	6.0	20	10/6/12 5:45	WSD
Dichlorodifluoromethane (Freon 12)	ND	1.0		ND	4.9	20	10/6/12 5:45	WSD
1,1-Dichloroethane	ND	1.0		ND	4.0	20	10/6/12 5:45	WSD
1,2-Dichloroethane	ND	1.0		ND	4.0	20	10/6/12 5:45	WSD
1,1-Dichloroethylene	ND	1.0		ND	4.0	20	10/6/12 5:45	WSD
cis-1,2-Dichloroethylene	18	1.0		72	4.0	20	10/6/12 5:45	WSD
trans-1,2-Dichloroethylene	ND	1.0		ND	4.0	20	10/6/12 5:45	WSD
1,2-Dichloropropane	ND	1.0		ND	4.6	20	10/6/12 5:45	WSD
cis-1,3-Dichloropropene	ND	1.0		ND	4.5	20	10/6/12 5:45	WSD
trans-1,3-Dichloropropene	ND	1.0		ND	4.5	20	10/6/12 5:45	WSD
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	1.0		ND	7.0	20	10/6/12 5:45	WSD
1,4-Dioxane	ND	1.0		ND	3.6	20	10/6/12 5:45	WSD
Ethanol	ND	40		ND	75	20	10/6/12 5:45	WSD
Ethyl Acetate	ND	1.0		ND	3.6	20	10/6/12 5:45	WSD
Ethylbenzene	ND	1.0		ND	4.3	20	10/6/12 5:45	WSD
4-Ethyltoluene	ND	1.0		ND	4.9	20	10/6/12 5:45	WSD
Heptane	ND	1.0		ND	4.1	20	10/6/12 5:45	WSD
Hexachlorobutadiene	ND	1.0		ND	11	20	10/6/12 5:45	WSD

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ANALYTICAL RESULTS

Project Location: Cohoes, NY
Date Received: 10/5/2012
Field Sample #: SV-6
Sample ID: 12J0233-01
Sample Matrix: Soil Gas
Sampled: 10/4/2012 09:42

Sample Description/Location:
Sub Description/Location:
Canister ID: 1265
Canister Size: 6 liter
Flow Controller ID: 4221
Sample Type: 1 hr

Work Order: 12J0233
Initial Vacuum(in Hg): -29.5
Final Vacuum(in Hg): -3
Receipt Vacuum(in Hg): -3.7
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv Results	ppbv RL	Flag	ug/m3 Results	ug/m3 RL	Dilution	Date/Time Analyzed	Analyst
Hexane	ND	40		ND	140	20	10/6/12 5:45	WSD
2-Hexanone (MBK)	ND	1.0		ND	4.1	20	10/6/12 5:45	WSD
Isopropanol	ND	40		ND	98	20	10/6/12 5:45	WSD
Methyl tert-Butyl Ether (MTBE)	ND	1.0		ND	3.6	20	10/6/12 5:45	WSD
Methylene Chloride	ND	10		ND	35	20	10/6/12 5:45	WSD
4-Methyl-2-pentanone (MIBK)	ND	1.0		ND	4.1	20	10/6/12 5:45	WSD
Naphthalene	ND	1.0		ND	5.2	20	10/6/12 5:45	WSD
Propene	ND	40		ND	69	20	10/6/12 5:45	WSD
Styrene	ND	1.0		ND	4.3	20	10/6/12 5:45	WSD
1,1,2,2-Tetrachloroethane	ND	1.0		ND	6.9	20	10/6/12 5:45	WSD
Tetrachloroethylene	1700	20		11000	140	400	10/8/12 6:35	WSD
Tetrahydrofuran	ND	1.0		ND	2.9	20	10/6/12 5:45	WSD
Toluene	ND	1.0		ND	3.8	20	10/6/12 5:45	WSD
1,2,4-Trichlorobenzene	ND	2.0		ND	15	20	10/6/12 5:45	WSD
1,1,1-Trichloroethane	ND	1.0		ND	5.5	20	10/6/12 5:45	WSD
1,1,2-Trichloroethane	ND	1.0		ND	5.5	20	10/6/12 5:45	WSD
Trichloroethylene	43	1.0		230	5.4	20	10/6/12 5:45	WSD
Trichlorofluoromethane (Freon 11)	21	1.0		120	5.6	20	10/6/12 5:45	WSD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0		ND	7.7	20	10/6/12 5:45	WSD
1,2,4-Trimethylbenzene	ND	1.0		ND	4.9	20	10/6/12 5:45	WSD
1,3,5-Trimethylbenzene	ND	1.0		ND	4.9	20	10/6/12 5:45	WSD
Vinyl Acetate	ND	2.0		ND	7.0	20	10/6/12 5:45	WSD
Vinyl Chloride	ND	1.0		ND	2.6	20	10/6/12 5:45	WSD
m&p-Xylene	ND	2.0		ND	8.7	20	10/6/12 5:45	WSD
o-Xylene	ND	1.0		ND	4.3	20	10/6/12 5:45	WSD

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	99.0	70-130	10/8/12 6:35
4-Bromofluorobenzene (1)	95.7	70-130	10/6/12 5:45

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ANALYTICAL RESULTS

Project Location: Cohoes, NY
Date Received: 10/5/2012
Field Sample #: SV-7
Sample ID: 12J0233-02
Sample Matrix: Soil Gas
Sampled: 10/4/2012 10:45

Sample Description/Location:
Sub Description/Location:
Canister ID: 1344
Canister Size: 6 liter
Flow Controller ID: 4222
Sample Type: 1 hr

Work Order: 12J0233
Initial Vacuum(in Hg): -29.5
Final Vacuum(in Hg): -2
Receipt Vacuum(in Hg): -8.2
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

	ppbv			ug/m3			Date/Time	
Analyte	Results	RL	Flag	Results	RL	Dilution	Analyzed	Analyst
Acetone	ND	4.0		ND	9.5	2	10/8/12 8:34	TPH
Benzene	0.34	0.10		1.1	0.32	2	10/8/12 8:34	TPH
Benzyl chloride	ND	0.10		ND	0.52	2	10/8/12 8:34	TPH
Bromodichloromethane	ND	0.10		ND	0.67	2	10/8/12 8:34	TPH
Bromoform	ND	0.10		ND	1.0	2	10/8/12 8:34	TPH
Bromomethane	ND	0.10		ND	0.39	2	10/8/12 8:34	TPH
1,3-Butadiene	ND	0.10		ND	0.22	2	10/8/12 8:34	TPH
2-Butanone (MEK)	ND	4.0		ND	12	2	10/8/12 8:34	TPH
Carbon Disulfide	ND	1.0		ND	3.1	2	10/8/12 8:34	TPH
Carbon Tetrachloride	ND	0.10		ND	0.63	2	10/8/12 8:34	TPH
Chlorobenzene	ND	0.10		ND	0.46	2	10/8/12 8:34	TPH
Chloroethane	ND	0.10		ND	0.26	2	10/8/12 8:34	TPH
Chloroform	ND	0.10		ND	0.49	2	10/8/12 8:34	TPH
Chloromethane	0.42	0.10		0.87	0.21	2	10/8/12 8:34	TPH
Cyclohexane	ND	0.10		ND	0.34	2	10/8/12 8:34	TPH
Dibromochloromethane	ND	0.10		ND	0.85	2	10/8/12 8:34	TPH
1,2-Dibromoethane (EDB)	ND	0.10		ND	0.77	2	10/8/12 8:34	TPH
1,2-Dichlorobenzene	ND	0.10		ND	0.60	2	10/8/12 8:34	TPH
1,3-Dichlorobenzene	ND	0.10		ND	0.60	2	10/8/12 8:34	TPH
1,4-Dichlorobenzene	ND	0.10		ND	0.60	2	10/8/12 8:34	TPH
Dichlorodifluoromethane (Freon 12)	0.45	0.10		2.2	0.49	2	10/8/12 8:34	TPH
1,1-Dichloroethane	ND	0.10		ND	0.40	2	10/8/12 8:34	TPH
1,2-Dichloroethane	ND	0.10		ND	0.40	2	10/8/12 8:34	TPH
1,1-Dichloroethylene	ND	0.10		ND	0.40	2	10/8/12 8:34	TPH
cis-1,2-Dichloroethylene	0.47	0.10		1.9	0.40	2	10/8/12 8:34	TPH
trans-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	10/8/12 8:34	TPH
1,2-Dichloropropane	ND	0.10		ND	0.46	2	10/8/12 8:34	TPH
cis-1,3-Dichloropropene	ND	0.10		ND	0.45	2	10/8/12 8:34	TPH
trans-1,3-Dichloropropene	ND	0.10		ND	0.45	2	10/8/12 8:34	TPH
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10		ND	0.70	2	10/8/12 8:34	TPH
1,4-Dioxane	ND	0.10		ND	0.36	2	10/8/12 8:34	TPH
Ethanol	ND	4.0		ND	7.5	2	10/8/12 8:34	TPH
Ethyl Acetate	0.51	0.10		1.8	0.36	2	10/8/12 8:34	TPH
Ethylbenzene	0.16	0.10		0.68	0.43	2	10/8/12 8:34	TPH
4-Ethyltoluene	ND	0.10		ND	0.49	2	10/8/12 8:34	TPH
Heptane	0.19	0.10		0.78	0.41	2	10/8/12 8:34	TPH
Hexachlorobutadiene	ND	0.10		ND	1.1	2	10/8/12 8:34	TPH

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

ANALYTICAL RESULTS

Project Location: Cohoes, NY
Date Received: 10/5/2012
Field Sample #: SV-7
Sample ID: 12J0233-02
Sample Matrix: Soil Gas
Sampled: 10/4/2012 10:45

Sample Description/Location:
Sub Description/Location:
Canister ID: 1344
Canister Size: 6 liter
Flow Controller ID: 4222
Sample Type: 1 hr

Work Order: 12J0233
Initial Vacuum(in Hg): -29.5
Final Vacuum(in Hg): -2
Receipt Vacuum(in Hg): -8.2
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv Results	ppbv RL	Flag	ug/m3 Results	ug/m3 RL	Dilution	Date/Time Analyzed	Analyst
Hexane	ND	4.0		ND	14	2	10/8/12 8:34	TPH
2-Hexanone (MBK)	ND	0.10		ND	0.41	2	10/8/12 8:34	TPH
Isopropanol	ND	4.0		ND	9.8	2	10/8/12 8:34	TPH
Methyl tert-Butyl Ether (MTBE)	ND	0.10		ND	0.36	2	10/8/12 8:34	TPH
Methylene Chloride	ND	1.0		ND	3.5	2	10/8/12 8:34	TPH
4-Methyl-2-pentanone (MIBK)	ND	0.10		ND	0.41	2	10/8/12 8:34	TPH
Naphthalene	ND	0.10		ND	0.52	2	10/8/12 8:34	TPH
Propene	ND	4.0		ND	6.9	2	10/8/12 8:34	TPH
Styrene	ND	0.10		ND	0.43	2	10/8/12 8:34	TPH
1,1,2,2-Tetrachloroethane	ND	0.10		ND	0.69	2	10/8/12 8:34	TPH
Tetrachloroethylene	30	0.10		210	0.68	2	10/8/12 8:34	WSD
Tetrahydrofuran	ND	0.10		ND	0.29	2	10/8/12 8:34	TPH
Toluene	1.1	0.10		4.2	0.38	2	10/8/12 8:34	TPH
1,2,4-Trichlorobenzene	ND	0.20		ND	1.5	2	10/8/12 8:34	TPH
1,1,1-Trichloroethane	ND	0.10		ND	0.55	2	10/8/12 8:34	TPH
1,1,2-Trichloroethane	ND	0.10		ND	0.55	2	10/8/12 8:34	TPH
Trichloroethylene	0.43	0.10		2.3	0.54	2	10/8/12 8:34	TPH
Trichlorofluoromethane (Freon 11)	0.28	0.10		1.6	0.56	2	10/8/12 8:34	TPH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.10		ND	0.77	2	10/8/12 8:34	TPH
1,2,4-Trimethylbenzene	0.13	0.10		0.65	0.49	2	10/8/12 8:34	TPH
1,3,5-Trimethylbenzene	ND	0.10		ND	0.49	2	10/8/12 8:34	TPH
Vinyl Acetate	ND	0.20		ND	0.70	2	10/8/12 8:34	TPH
Vinyl Chloride	ND	0.10		ND	0.26	2	10/8/12 8:34	TPH
m&p-Xylene	0.53	0.20		2.3	0.87	2	10/8/12 8:34	TPH
o-Xylene	0.16	0.10		0.69	0.43	2	10/8/12 8:34	TPH

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	96.0	70-130	10/8/12 8:34

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ANALYTICAL RESULTS

Project Location: Cohoes, NY
Date Received: 10/5/2012
Field Sample #: Dup
Sample ID: 12J0233-03
Sample Matrix: Soil Gas
Sampled: 10/4/2012 00:00

Sample Description/Location:
Sub Description/Location:
Canister ID: 1330
Canister Size: 6 liter
Flow Controller ID: 4223
Sample Type: 1 hr

Work Order: 12J0233
Initial Vacuum(in Hg): -27
Final Vacuum(in Hg): -1.5
Receipt Vacuum(in Hg): -4.6
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

	ppbv			ug/m3			Date/Time	
Analyte	Results	RL	Flag	Results	RL	Dilution	Analyzed	Analyst
Acetone	7.1	4.0		17	9.5	2	10/8/12 9:15	WSD
Benzene	0.28	0.10		0.91	0.32	2	10/8/12 9:15	WSD
Benzyl chloride	ND	0.10		ND	0.52	2	10/8/12 9:15	WSD
Bromodichloromethane	ND	0.10		ND	0.67	2	10/8/12 9:15	WSD
Bromoform	ND	0.10		ND	1.0	2	10/8/12 9:15	WSD
Bromomethane	ND	0.10		ND	0.39	2	10/8/12 9:15	WSD
1,3-Butadiene	ND	0.10		ND	0.22	2	10/8/12 9:15	WSD
2-Butanone (MEK)	ND	4.0		ND	12	2	10/8/12 9:15	WSD
Carbon Disulfide	ND	1.0		ND	3.1	2	10/8/12 9:15	WSD
Carbon Tetrachloride	ND	0.10		ND	0.63	2	10/8/12 9:15	WSD
Chlorobenzene	ND	0.10		ND	0.46	2	10/8/12 9:15	WSD
Chloroethane	ND	0.10		ND	0.26	2	10/8/12 9:15	WSD
Chloroform	ND	0.10		ND	0.49	2	10/8/12 9:15	WSD
Chloromethane	0.43	0.10		0.89	0.21	2	10/8/12 9:15	WSD
Cyclohexane	ND	0.10		ND	0.34	2	10/8/12 9:15	WSD
Dibromochloromethane	ND	0.10		ND	0.85	2	10/8/12 9:15	WSD
1,2-Dibromoethane (EDB)	ND	0.10		ND	0.77	2	10/8/12 9:15	WSD
1,2-Dichlorobenzene	ND	0.10		ND	0.60	2	10/8/12 9:15	WSD
1,3-Dichlorobenzene	ND	0.10		ND	0.60	2	10/8/12 9:15	WSD
1,4-Dichlorobenzene	ND	0.10		ND	0.60	2	10/8/12 9:15	WSD
Dichlorodifluoromethane (Freon 12)	0.46	0.10		2.3	0.49	2	10/8/12 9:15	WSD
1,1-Dichloroethane	ND	0.10		ND	0.40	2	10/8/12 9:15	WSD
1,2-Dichloroethane	ND	0.10		ND	0.40	2	10/8/12 9:15	WSD
1,1-Dichloroethylene	ND	0.10		ND	0.40	2	10/8/12 9:15	WSD
cis-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	10/8/12 9:15	WSD
trans-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	10/8/12 9:15	WSD
1,2-Dichloropropane	ND	0.10		ND	0.46	2	10/8/12 9:15	WSD
cis-1,3-Dichloropropene	ND	0.10		ND	0.45	2	10/8/12 9:15	WSD
trans-1,3-Dichloropropene	ND	0.10		ND	0.45	2	10/8/12 9:15	WSD
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10		ND	0.70	2	10/8/12 9:15	WSD
1,4-Dioxane	ND	0.10		ND	0.36	2	10/8/12 9:15	WSD
Ethanol	7.7	4.0		15	7.5	2	10/8/12 9:15	WSD
Ethyl Acetate	0.94	0.10		3.4	0.36	2	10/8/12 9:15	WSD
Ethylbenzene	0.16	0.10		0.70	0.43	2	10/8/12 9:15	WSD
4-Ethyltoluene	ND	0.10		ND	0.49	2	10/8/12 9:15	WSD
Heptane	0.17	0.10		0.69	0.41	2	10/8/12 9:15	WSD
Hexachlorobutadiene	ND	0.10		ND	1.1	2	10/8/12 9:15	WSD

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ANALYTICAL RESULTS

Project Location: Cohoes, NY
Date Received: 10/5/2012
Field Sample #: Dup
Sample ID: 12J0233-03
Sample Matrix: Soil Gas
Sampled: 10/4/2012 00:00

Sample Description/Location:
Sub Description/Location:
Canister ID: 1330
Canister Size: 6 liter
Flow Controller ID: 4223
Sample Type: 1 hr

Work Order: 12J0233
Initial Vacuum(in Hg): -27
Final Vacuum(in Hg): -1.5
Receipt Vacuum(in Hg): -4.6
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv Results	ppbv RL	Flag	ug/m3 Results	ug/m3 RL	Dilution	Date/Time Analyzed	Analyst
Hexane	ND	4.0		ND	14	2	10/8/12 9:15	WSD
2-Hexanone (MBK)	ND	0.10		ND	0.41	2	10/8/12 9:15	WSD
Isopropanol	ND	4.0		ND	9.8	2	10/8/12 9:15	WSD
Methyl tert-Butyl Ether (MTBE)	ND	0.10		ND	0.36	2	10/8/12 9:15	WSD
Methylene Chloride	ND	1.0		ND	3.5	2	10/8/12 9:15	WSD
4-Methyl-2-pentanone (MIBK)	ND	0.10		ND	0.41	2	10/8/12 9:15	WSD
Naphthalene	ND	0.10		ND	0.52	2	10/8/12 9:15	WSD
Propene	ND	4.0		ND	6.9	2	10/8/12 9:15	WSD
Styrene	ND	0.10		ND	0.43	2	10/8/12 9:15	WSD
1,1,2,2-Tetrachloroethane	ND	0.10		ND	0.69	2	10/8/12 9:15	WSD
Tetrachloroethylene	3.4	0.10		23	0.68	2	10/8/12 9:15	WSD
Tetrahydrofuran	ND	0.10		ND	0.29	2	10/8/12 9:15	WSD
Toluene	1.1	0.10		4.0	0.38	2	10/8/12 9:15	WSD
1,2,4-Trichlorobenzene	ND	0.20		ND	1.5	2	10/8/12 9:15	WSD
1,1,1-Trichloroethane	ND	0.10		ND	0.55	2	10/8/12 9:15	WSD
1,1,2-Trichloroethane	ND	0.10		ND	0.55	2	10/8/12 9:15	WSD
Trichloroethylene	ND	0.10		ND	0.54	2	10/8/12 9:15	WSD
Trichlorofluoromethane (Freon 11)	0.26	0.10		1.4	0.56	2	10/8/12 9:15	WSD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.10		ND	0.77	2	10/8/12 9:15	WSD
1,2,4-Trimethylbenzene	0.10	0.10		0.49	0.49	2	10/8/12 9:15	WSD
1,3,5-Trimethylbenzene	ND	0.10		ND	0.49	2	10/8/12 9:15	WSD
Vinyl Acetate	ND	0.20		ND	0.70	2	10/8/12 9:15	WSD
Vinyl Chloride	ND	0.10		ND	0.26	2	10/8/12 9:15	WSD
m&p-Xylene	0.51	0.20		2.2	0.87	2	10/8/12 9:15	WSD
o-Xylene	0.16	0.10		0.71	0.43	2	10/8/12 9:15	WSD

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	97.2	70-130	10/8/12 9:15

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ANALYTICAL RESULTS

Project Location: Cohoes, NY
Date Received: 10/5/2012
Field Sample #: SV-2
Sample ID: 12J0233-04
Sample Matrix: Soil Gas
Sampled: 10/4/2012 14:30

Sample Description/Location:
Sub Description/Location:
Canister ID: 1722
Canister Size: 6 liter
Flow Controller ID: 4111
Sample Type: 1 hr

Work Order: 12J0233
Initial Vacuum(in Hg): -28
Final Vacuum(in Hg): -10
Receipt Vacuum(in Hg): -11.5
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

	ppbv			ug/m3			Date/Time	
Analyte	Results	RL	Flag	Results	RL	Dilution	Analyzed	Analyst
Acetone	8.5	4.0		20	9.5	2	10/8/12 9:57	WSD
Benzene	0.36	0.10		1.2	0.32	2	10/8/12 9:57	WSD
Benzyl chloride	ND	0.10		ND	0.52	2	10/8/12 9:57	WSD
Bromodichloromethane	ND	0.10		ND	0.67	2	10/8/12 9:57	WSD
Bromoform	ND	0.10		ND	1.0	2	10/8/12 9:57	WSD
Bromomethane	ND	0.10		ND	0.39	2	10/8/12 9:57	WSD
1,3-Butadiene	ND	0.10		ND	0.22	2	10/8/12 9:57	WSD
2-Butanone (MEK)	ND	4.0		ND	12	2	10/8/12 9:57	WSD
Carbon Disulfide	2.4	1.0		7.4	3.1	2	10/8/12 9:57	WSD
Carbon Tetrachloride	ND	0.10		ND	0.63	2	10/8/12 9:57	WSD
Chlorobenzene	ND	0.10		ND	0.46	2	10/8/12 9:57	WSD
Chloroethane	ND	0.10		ND	0.26	2	10/8/12 9:57	WSD
Chloroform	0.28	0.10		1.4	0.49	2	10/8/12 9:57	WSD
Chloromethane	0.45	0.10		0.93	0.21	2	10/8/12 9:57	WSD
Cyclohexane	ND	0.10		ND	0.34	2	10/8/12 9:57	WSD
Dibromochloromethane	ND	0.10		ND	0.85	2	10/8/12 9:57	WSD
1,2-Dibromoethane (EDB)	ND	0.10		ND	0.77	2	10/8/12 9:57	WSD
1,2-Dichlorobenzene	ND	0.10		ND	0.60	2	10/8/12 9:57	WSD
1,3-Dichlorobenzene	ND	0.10		ND	0.60	2	10/8/12 9:57	WSD
1,4-Dichlorobenzene	ND	0.10		ND	0.60	2	10/8/12 9:57	WSD
Dichlorodifluoromethane (Freon 12)	0.45	0.10		2.2	0.49	2	10/8/12 9:57	WSD
1,1-Dichloroethane	ND	0.10		ND	0.40	2	10/8/12 9:57	WSD
1,2-Dichloroethane	ND	0.10		ND	0.40	2	10/8/12 9:57	WSD
1,1-Dichloroethylene	ND	0.10		ND	0.40	2	10/8/12 9:57	WSD
cis-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	10/8/12 9:57	WSD
trans-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	10/8/12 9:57	WSD
1,2-Dichloropropane	ND	0.10		ND	0.46	2	10/8/12 9:57	WSD
cis-1,3-Dichloropropene	ND	0.10		ND	0.45	2	10/8/12 9:57	WSD
trans-1,3-Dichloropropene	ND	0.10		ND	0.45	2	10/8/12 9:57	WSD
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10		ND	0.70	2	10/8/12 9:57	WSD
1,4-Dioxane	ND	0.10		ND	0.36	2	10/8/12 9:57	WSD
Ethanol	ND	4.0		ND	7.5	2	10/8/12 9:57	WSD
Ethyl Acetate	0.37	0.10		1.3	0.36	2	10/8/12 9:57	WSD
Ethylbenzene	0.12	0.10		0.53	0.43	2	10/8/12 9:57	WSD
4-Ethyltoluene	ND	0.10		ND	0.49	2	10/8/12 9:57	WSD
Heptane	0.20	0.10		0.81	0.41	2	10/8/12 9:57	WSD
Hexachlorobutadiene	ND	0.10		ND	1.1	2	10/8/12 9:57	WSD

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ANALYTICAL RESULTS

Project Location: Cohoes, NY
Date Received: 10/5/2012
Field Sample #: SV-2
Sample ID: 12J0233-04
Sample Matrix: Soil Gas
Sampled: 10/4/2012 14:30

Sample Description/Location:
Sub Description/Location:
Canister ID: 1722
Canister Size: 6 liter
Flow Controller ID: 4111
Sample Type: 1 hr

Work Order: 12J0233
Initial Vacuum(in Hg): -28
Final Vacuum(in Hg): -10
Receipt Vacuum(in Hg): -11.5
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv Results	ppbv RL	Flag	ug/m3 Results	ug/m3 RL	Dilution	Date/Time Analyzed	Analyst
Hexane	ND	4.0		ND	14	2	10/8/12 9:57	WSD
2-Hexanone (MBK)	ND	0.10		ND	0.41	2	10/8/12 9:57	WSD
Isopropanol	ND	4.0		ND	9.8	2	10/8/12 9:57	WSD
Methyl tert-Butyl Ether (MTBE)	0.11	0.10		0.40	0.36	2	10/8/12 9:57	WSD
Methylene Chloride	ND	1.0		ND	3.5	2	10/8/12 9:57	WSD
4-Methyl-2-pentanone (MIBK)	ND	0.10		ND	0.41	2	10/8/12 9:57	WSD
Naphthalene	ND	0.10		ND	0.52	2	10/8/12 9:57	WSD
Propene	ND	4.0		ND	6.9	2	10/8/12 9:57	WSD
Styrene	ND	0.10		ND	0.43	2	10/8/12 9:57	WSD
1,1,2,2-Tetrachloroethane	ND	0.10		ND	0.69	2	10/8/12 9:57	WSD
Tetrachloroethylene	0.22	0.10		1.5	0.68	2	10/8/12 9:57	WSD
Tetrahydrofuran	ND	0.10		ND	0.29	2	10/8/12 9:57	WSD
Toluene	1.1	0.10		4.3	0.38	2	10/8/12 9:57	WSD
1,2,4-Trichlorobenzene	ND	0.20		ND	1.5	2	10/8/12 9:57	WSD
1,1,1-Trichloroethane	ND	0.10		ND	0.55	2	10/8/12 9:57	WSD
1,1,2-Trichloroethane	ND	0.10		ND	0.55	2	10/8/12 9:57	WSD
Trichloroethylene	ND	0.10		ND	0.54	2	10/8/12 9:57	WSD
Trichlorofluoromethane (Freon 11)	0.23	0.10		1.3	0.56	2	10/8/12 9:57	WSD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.10		ND	0.77	2	10/8/12 9:57	WSD
1,2,4-Trimethylbenzene	0.11	0.10		0.55	0.49	2	10/8/12 9:57	WSD
1,3,5-Trimethylbenzene	ND	0.10		ND	0.49	2	10/8/12 9:57	WSD
Vinyl Acetate	ND	0.20		ND	0.70	2	10/8/12 9:57	WSD
Vinyl Chloride	ND	0.10		ND	0.26	2	10/8/12 9:57	WSD
m&p-Xylene	0.41	0.20		1.8	0.87	2	10/8/12 9:57	WSD
o-Xylene	0.13	0.10		0.56	0.43	2	10/8/12 9:57	WSD

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	94.4	70-130	10/8/12 9:57

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ANALYTICAL RESULTS

Project Location: Cohoes, NY
Date Received: 10/5/2012
Field Sample #: SV-1
Sample ID: 12J0233-05
Sample Matrix: Soil Gas
Sampled: 10/4/2012 10:35

Sample Description/Location:
Sub Description/Location:
Canister ID: 1053
Canister Size: 6 liter
Flow Controller ID: 4217
Sample Type: 1 hr

Work Order: 12J0233
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): -3
Receipt Vacuum(in Hg): -2.8
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv Results	ppbv RL	Flag	ug/m3 Results	ug/m3 RL	Dilution	Date/Time Analyzed	Analyst
Acetone	7.1	4.0		17	9.5	2	10/8/12 10:38	WSD
Benzene	0.31	0.10		0.98	0.32	2	10/8/12 10:38	WSD
Benzyl chloride	0.28	0.10		1.5	0.52	2	10/8/12 10:38	WSD
Bromodichloromethane	ND	0.10		ND	0.67	2	10/8/12 10:38	WSD
Bromoform	ND	0.10		ND	1.0	2	10/8/12 10:38	WSD
Bromomethane	ND	0.10		ND	0.39	2	10/8/12 10:38	WSD
1,3-Butadiene	ND	0.10		ND	0.22	2	10/8/12 10:38	WSD
2-Butanone (MEK)	ND	4.0		ND	12	2	10/8/12 10:38	WSD
Carbon Disulfide	3.1	1.0		9.5	3.1	2	10/8/12 10:38	WSD
Carbon Tetrachloride	ND	0.10		ND	0.63	2	10/8/12 10:38	WSD
Chlorobenzene	ND	0.10		ND	0.46	2	10/8/12 10:38	WSD
Chloroethane	ND	0.10		ND	0.26	2	10/8/12 10:38	WSD
Chloroform	ND	0.10		ND	0.49	2	10/8/12 10:38	WSD
Chloromethane	0.64	0.10		1.3	0.21	2	10/8/12 10:38	WSD
Cyclohexane	ND	0.10		ND	0.34	2	10/8/12 10:38	WSD
Dibromochloromethane	ND	0.10		ND	0.85	2	10/8/12 10:38	WSD
1,2-Dibromoethane (EDB)	ND	0.10		ND	0.77	2	10/8/12 10:38	WSD
1,2-Dichlorobenzene	ND	0.10		ND	0.60	2	10/8/12 10:38	WSD
1,3-Dichlorobenzene	ND	0.10		ND	0.60	2	10/8/12 10:38	WSD
1,4-Dichlorobenzene	ND	0.10		ND	0.60	2	10/8/12 10:38	WSD
Dichlorodifluoromethane (Freon 12)	0.45	0.10		2.2	0.49	2	10/8/12 10:38	WSD
1,1-Dichloroethane	ND	0.10		ND	0.40	2	10/8/12 10:38	WSD
1,2-Dichloroethane	ND	0.10		ND	0.40	2	10/8/12 10:38	WSD
1,1-Dichloroethylene	ND	0.10		ND	0.40	2	10/8/12 10:38	WSD
cis-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	10/8/12 10:38	WSD
trans-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	10/8/12 10:38	WSD
1,2-Dichloropropane	ND	0.10		ND	0.46	2	10/8/12 10:38	WSD
cis-1,3-Dichloropropene	ND	0.10		ND	0.45	2	10/8/12 10:38	WSD
trans-1,3-Dichloropropene	ND	0.10		ND	0.45	2	10/8/12 10:38	WSD
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10		ND	0.70	2	10/8/12 10:38	WSD
1,4-Dioxane	ND	0.10		ND	0.36	2	10/8/12 10:38	WSD
Ethanol	5.6	4.0		10	7.5	2	10/8/12 10:38	WSD
Ethyl Acetate	ND	0.10		ND	0.36	2	10/8/12 10:38	WSD
Ethylbenzene	0.11	0.10		0.46	0.43	2	10/8/12 10:38	WSD
4-Ethyltoluene	ND	0.10		ND	0.49	2	10/8/12 10:38	WSD
Heptane	0.12	0.10		0.49	0.41	2	10/8/12 10:38	WSD
Hexachlorobutadiene	ND	0.10		ND	1.1	2	10/8/12 10:38	WSD

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ANALYTICAL RESULTS

Project Location: Cohoes, NY
Date Received: 10/5/2012
Field Sample #: SV-1
Sample ID: 12J0233-05
Sample Matrix: Soil Gas
Sampled: 10/4/2012 10:35

Sample Description/Location:
Sub Description/Location:
Canister ID: 1053
Canister Size: 6 liter
Flow Controller ID: 4217
Sample Type: 1 hr

Work Order: 12J0233
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): -3
Receipt Vacuum(in Hg): -2.8
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv Results	ppbv RL	Flag	ug/m3 Results	ug/m3 RL	Dilution	Date/Time Analyzed	Analyst
Hexane	ND	4.0		ND	14	2	10/8/12 10:38	WSD
2-Hexanone (MBK)	ND	0.10		ND	0.41	2	10/8/12 10:38	WSD
Isopropanol	ND	4.0		ND	9.8	2	10/8/12 10:38	WSD
Methyl tert-Butyl Ether (MTBE)	ND	0.10		ND	0.36	2	10/8/12 10:38	WSD
Methylene Chloride	ND	1.0		ND	3.5	2	10/8/12 10:38	WSD
4-Methyl-2-pentanone (MIBK)	ND	0.10		ND	0.41	2	10/8/12 10:38	WSD
Naphthalene	ND	0.10		ND	0.52	2	10/8/12 10:38	WSD
Propene	ND	4.0		ND	6.9	2	10/8/12 10:38	WSD
Styrene	ND	0.10		ND	0.43	2	10/8/12 10:38	WSD
1,1,2,2-Tetrachloroethane	ND	0.10		ND	0.69	2	10/8/12 10:38	WSD
Tetrachloroethylene	0.48	0.10		3.2	0.68	2	10/8/12 10:38	WSD
Tetrahydrofuran	ND	0.10		ND	0.29	2	10/8/12 10:38	WSD
Toluene	0.80	0.10		3.0	0.38	2	10/8/12 10:38	WSD
1,2,4-Trichlorobenzene	ND	0.20		ND	1.5	2	10/8/12 10:38	WSD
1,1,1-Trichloroethane	ND	0.10		ND	0.55	2	10/8/12 10:38	WSD
1,1,2-Trichloroethane	ND	0.10		ND	0.55	2	10/8/12 10:38	WSD
Trichloroethylene	ND	0.10		ND	0.54	2	10/8/12 10:38	WSD
Trichlorofluoromethane (Freon 11)	0.23	0.10		1.3	0.56	2	10/8/12 10:38	WSD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.10		ND	0.77	2	10/8/12 10:38	WSD
1,2,4-Trimethylbenzene	ND	0.10		ND	0.49	2	10/8/12 10:38	WSD
1,3,5-Trimethylbenzene	ND	0.10		ND	0.49	2	10/8/12 10:38	WSD
Vinyl Acetate	ND	0.20		ND	0.70	2	10/8/12 10:38	WSD
Vinyl Chloride	ND	0.10		ND	0.26	2	10/8/12 10:38	WSD
m&p-Xylene	0.33	0.20		1.5	0.87	2	10/8/12 10:38	WSD
o-Xylene	0.11	0.10		0.49	0.43	2	10/8/12 10:38	WSD

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	96.7	70-130	10/8/12 10:38

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ANALYTICAL RESULTS

Project Location: Cohoes, NY
Date Received: 10/5/2012
Field Sample #: SV-8
Sample ID: 12J0233-06
Sample Matrix: Soil Gas
Sampled: 10/4/2012 11:55

Sample Description/Location:
Sub Description/Location:
Canister ID: 1203
Canister Size: 6 liter
Flow Controller ID: 4219
Sample Type: 1 hr

Work Order: 12J0233
Initial Vacuum(in Hg): -28
Final Vacuum(in Hg): -3.5
Receipt Vacuum(in Hg): -4
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

	ppbv			ug/m3			Date/Time	
Analyte	Results	RL	Flag	Results	RL	Dilution	Analyzed	Analyst
Acetone	ND	40		ND	95	20	10/6/12 9:16	WSD
Benzene	1.9	1.0		6.1	3.2	20	10/6/12 9:16	WSD
Benzyl chloride	ND	1.0		ND	5.2	20	10/6/12 9:16	WSD
Bromodichloromethane	ND	1.0		ND	6.7	20	10/6/12 9:16	WSD
Bromoform	ND	1.0		ND	10	20	10/6/12 9:16	WSD
Bromomethane	ND	1.0		ND	3.9	20	10/6/12 9:16	WSD
1,3-Butadiene	ND	1.0		ND	2.2	20	10/6/12 9:16	WSD
2-Butanone (MEK)	ND	40		ND	120	20	10/6/12 9:16	WSD
Carbon Disulfide	ND	10		ND	31	20	10/6/12 9:16	WSD
Carbon Tetrachloride	ND	1.0		ND	6.3	20	10/6/12 9:16	WSD
Chlorobenzene	ND	1.0		ND	4.6	20	10/6/12 9:16	WSD
Chloroethane	ND	1.0		ND	2.6	20	10/6/12 9:16	WSD
Chloroform	2.6	1.0		12	4.9	20	10/6/12 9:16	WSD
Chloromethane	ND	1.0		ND	2.1	20	10/6/12 9:16	WSD
Cyclohexane	ND	1.0		ND	3.4	20	10/6/12 9:16	WSD
Dibromochloromethane	ND	1.0		ND	8.5	20	10/6/12 9:16	WSD
1,2-Dibromoethane (EDB)	ND	1.0		ND	7.7	20	10/6/12 9:16	WSD
1,2-Dichlorobenzene	ND	1.0		ND	6.0	20	10/6/12 9:16	WSD
1,3-Dichlorobenzene	ND	1.0		ND	6.0	20	10/6/12 9:16	WSD
1,4-Dichlorobenzene	ND	1.0		ND	6.0	20	10/6/12 9:16	WSD
Dichlorodifluoromethane (Freon 12)	ND	1.0		ND	4.9	20	10/6/12 9:16	WSD
1,1-Dichloroethane	ND	1.0		ND	4.0	20	10/6/12 9:16	WSD
1,2-Dichloroethane	ND	1.0		ND	4.0	20	10/6/12 9:16	WSD
1,1-Dichloroethylene	ND	1.0		ND	4.0	20	10/6/12 9:16	WSD
cis-1,2-Dichloroethylene	18	1.0		72	4.0	20	10/6/12 9:16	WSD
trans-1,2-Dichloroethylene	ND	1.0		ND	4.0	20	10/6/12 9:16	WSD
1,2-Dichloropropane	ND	1.0		ND	4.6	20	10/6/12 9:16	WSD
cis-1,3-Dichloropropene	ND	1.0		ND	4.5	20	10/6/12 9:16	WSD
trans-1,3-Dichloropropene	ND	1.0		ND	4.5	20	10/6/12 9:16	WSD
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	1.0		ND	7.0	20	10/6/12 9:16	WSD
1,4-Dioxane	ND	1.0		ND	3.6	20	10/6/12 9:16	WSD
Ethanol	ND	40		ND	75	20	10/6/12 9:16	WSD
Ethyl Acetate	ND	1.0		ND	3.6	20	10/6/12 9:16	WSD
Ethylbenzene	ND	1.0		ND	4.3	20	10/6/12 9:16	WSD
4-Ethyltoluene	ND	1.0		ND	4.9	20	10/6/12 9:16	WSD
Heptane	ND	1.0		ND	4.1	20	10/6/12 9:16	WSD
Hexachlorobutadiene	ND	1.0		ND	11	20	10/6/12 9:16	WSD

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ANALYTICAL RESULTS

Project Location: Cohoes, NY
Date Received: 10/5/2012
Field Sample #: SV-8
Sample ID: 12J0233-06
Sample Matrix: Soil Gas
Sampled: 10/4/2012 11:55

Sample Description/Location:
Sub Description/Location:
Canister ID: 1203
Canister Size: 6 liter
Flow Controller ID: 4219
Sample Type: 1 hr

Work Order: 12J0233
Initial Vacuum(in Hg): -28
Final Vacuum(in Hg): -3.5
Receipt Vacuum(in Hg): -4
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv Results	ppbv RL	Flag	ug/m3 Results	ug/m3 RL	Dilution	Date/Time Analyzed	Analyst
Hexane	ND	40		ND	140	20	10/6/12 9:16	WSD
2-Hexanone (MBK)	ND	1.0		ND	4.1	20	10/6/12 9:16	WSD
Isopropanol	ND	40		ND	98	20	10/6/12 9:16	WSD
Methyl tert-Butyl Ether (MTBE)	ND	1.0		ND	3.6	20	10/6/12 9:16	WSD
Methylene Chloride	ND	10		ND	35	20	10/6/12 9:16	WSD
4-Methyl-2-pentanone (MIBK)	ND	1.0		ND	4.1	20	10/6/12 9:16	WSD
Naphthalene	ND	1.0		ND	5.2	20	10/6/12 9:16	WSD
Propene	ND	40		ND	69	20	10/6/12 9:16	WSD
Styrene	ND	1.0		ND	4.3	20	10/6/12 9:16	WSD
1,1,2,2-Tetrachloroethane	ND	1.0		ND	6.9	20	10/6/12 9:16	WSD
Tetrachloroethylene	18000	40		120000	270	800	10/8/12 7:15	WSD
Tetrahydrofuran	ND	1.0		ND	2.9	20	10/6/12 9:16	WSD
Toluene	ND	1.0		ND	3.8	20	10/6/12 9:16	WSD
1,2,4-Trichlorobenzene	ND	2.0		ND	15	20	10/6/12 9:16	WSD
1,1,1-Trichloroethane	22	1.0		120	5.5	20	10/6/12 9:16	WSD
1,1,2-Trichloroethane	ND	1.0		ND	5.5	20	10/6/12 9:16	WSD
Trichloroethylene	230	1.0		1200	5.4	20	10/6/12 9:16	WSD
Trichlorofluoromethane (Freon 11)	12	1.0		69	5.6	20	10/6/12 9:16	WSD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0		ND	7.7	20	10/6/12 9:16	WSD
1,2,4-Trimethylbenzene	ND	1.0		ND	4.9	20	10/6/12 9:16	WSD
1,3,5-Trimethylbenzene	ND	1.0		ND	4.9	20	10/6/12 9:16	WSD
Vinyl Acetate	ND	2.0		ND	7.0	20	10/6/12 9:16	WSD
Vinyl Chloride	ND	1.0		ND	2.6	20	10/6/12 9:16	WSD
m&p-Xylene	ND	2.0		ND	8.7	20	10/6/12 9:16	WSD
o-Xylene	ND	1.0		ND	4.3	20	10/6/12 9:16	WSD

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	96.3	70-130	10/8/12 7:15
4-Bromofluorobenzene (1)	100	70-130	10/6/12 9:16

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ANALYTICAL RESULTS

Project Location: Cohoes, NY
Date Received: 10/5/2012
Field Sample #: SV-10
Sample ID: 12J0233-09
Sample Matrix: Soil Gas
Sampled: 10/4/2012 12:26

Sample Description/Location:
Sub Description/Location:
Canister ID: 1625
Canister Size: 6 liter
Flow Controller ID: 4224
Sample Type: 1 hr

Work Order: 12J0233
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): -3.5
Receipt Vacuum(in Hg): -4.2
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

	ppbv			ug/m3			Date/Time	
Analyte	**Results**	**RL**	**Flag**	**Results**	**RL**	**Dilution**	**Analyzed**	**Analyst**
Acetone	6.6	4.0		16	9.5	2	10/8/12 11:19	WSD
Benzene	ND	0.10		ND	0.32	2	10/8/12 11:19	WSD
Benzyl chloride	ND	0.10		ND	0.52	2	10/8/12 11:19	WSD
Bromodichloromethane	ND	0.10		ND	0.67	2	10/8/12 11:19	WSD
Bromoform	ND	0.10		ND	1.0	2	10/8/12 11:19	WSD
Bromomethane	ND	0.10		ND	0.39	2	10/8/12 11:19	WSD
1,3-Butadiene	ND	0.10		ND	0.22	2	10/8/12 11:19	WSD
2-Butanone (MEK)	ND	4.0		ND	12	2	10/8/12 11:19	WSD
Carbon Disulfide	ND	1.0		ND	3.1	2	10/8/12 11:19	WSD
Carbon Tetrachloride	ND	0.10		ND	0.63	2	10/8/12 11:19	WSD
Chlorobenzene	ND	0.10		ND	0.46	2	10/8/12 11:19	WSD
Chloroethane	ND	0.10		ND	0.26	2	10/8/12 11:19	WSD
Chloroform	4.1	0.10		20	0.49	2	10/8/12 11:19	WSD
Chloromethane	0.21	0.10		0.43	0.21	2	10/8/12 11:19	WSD
Cyclohexane	ND	0.10		ND	0.34	2	10/8/12 11:19	WSD
Dibromochloromethane	ND	0.10		ND	0.85	2	10/8/12 11:19	WSD
1,2-Dibromoethane (EDB)	ND	0.10		ND	0.77	2	10/8/12 11:19	WSD
1,2-Dichlorobenzene	ND	0.10		ND	0.60	2	10/8/12 11:19	WSD
1,3-Dichlorobenzene	ND	0.10		ND	0.60	2	10/8/12 11:19	WSD
1,4-Dichlorobenzene	ND	0.10		ND	0.60	2	10/8/12 11:19	WSD
Dichlorodifluoromethane (Freon 12)	0.45	0.10		2.2	0.49	2	10/8/12 11:19	WSD
1,1-Dichloroethane	ND	0.10		ND	0.40	2	10/8/12 11:19	WSD
1,2-Dichloroethane	ND	0.10		ND	0.40	2	10/8/12 11:19	WSD
1,1-Dichloroethylene	ND	0.10		ND	0.40	2	10/8/12 11:19	WSD
cis-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	10/8/12 11:19	WSD
trans-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	10/8/12 11:19	WSD
1,2-Dichloropropane	ND	0.10		ND	0.46	2	10/8/12 11:19	WSD
cis-1,3-Dichloropropene	ND	0.10		ND	0.45	2	10/8/12 11:19	WSD
trans-1,3-Dichloropropene	ND	0.10		ND	0.45	2	10/8/12 11:19	WSD
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10		ND	0.70	2	10/8/12 11:19	WSD
1,4-Dioxane	ND	0.10		ND	0.36	2	10/8/12 11:19	WSD
Ethanol	ND	4.0		ND	7.5	2	10/8/12 11:19	WSD
Ethyl Acetate	ND	0.10		ND	0.36	2	10/8/12 11:19	WSD
Ethylbenzene	ND	0.10		ND	0.43	2	10/8/12 11:19	WSD
4-Ethyltoluene	ND	0.10		ND	0.49	2	10/8/12 11:19	WSD
Heptane	ND	0.10		ND	0.41	2	10/8/12 11:19	WSD
Hexachlorobutadiene	ND	0.10		ND	1.1	2	10/8/12 11:19	WSD

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ANALYTICAL RESULTS

Project Location: Cohoes, NY
Date Received: 10/5/2012
Field Sample #: SV-10
Sample ID: 12J0233-09
Sample Matrix: Soil Gas
Sampled: 10/4/2012 12:26

Sample Description/Location:
Sub Description/Location:
Canister ID: 1625
Canister Size: 6 liter
Flow Controller ID: 4224
Sample Type: 1 hr

Work Order: 12J0233
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): -3.5
Receipt Vacuum(in Hg): -4.2
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

	ppbv			ug/m3			Date/Time	
Analyte	**Results**	**RL**	**Flag**	**Results**	**RL**	**Dilution**	**Analyzed**	**Analyst**
Hexane	ND	4.0		ND	14	2	10/8/12 11:19	WSD
2-Hexanone (MBK)	0.17	0.10		0.70	0.41	2	10/8/12 11:19	WSD
Isopropanol	ND	4.0		ND	9.8	2	10/8/12 11:19	WSD
Methyl tert-Butyl Ether (MTBE)	ND	0.10		ND	0.36	2	10/8/12 11:19	WSD
Methylene Chloride	ND	1.0		ND	3.5	2	10/8/12 11:19	WSD
4-Methyl-2-pentanone (MIBK)	ND	0.10		ND	0.41	2	10/8/12 11:19	WSD
Naphthalene	ND	0.10		ND	0.52	2	10/8/12 11:19	WSD
Propene	ND	4.0		ND	6.9	2	10/8/12 11:19	WSD
Styrene	ND	0.10		ND	0.43	2	10/8/12 11:19	WSD
1,1,2,2-Tetrachloroethane	ND	0.10		ND	0.69	2	10/8/12 11:19	WSD
Tetrachloroethylene	2.9	0.10		20	0.68	2	10/8/12 11:19	WSD
Tetrahydrofuran	ND	0.10		ND	0.29	2	10/8/12 11:19	WSD
Toluene	0.11	0.10		0.41	0.38	2	10/8/12 11:19	WSD
1,2,4-Trichlorobenzene	ND	0.20		ND	1.5	2	10/8/12 11:19	WSD
1,1,1-Trichloroethane	0.13	0.10		0.69	0.55	2	10/8/12 11:19	WSD
1,1,2-Trichloroethane	ND	0.10		ND	0.55	2	10/8/12 11:19	WSD
Trichloroethylene	ND	0.10		ND	0.54	2	10/8/12 11:19	WSD
Trichlorofluoromethane (Freon 11)	0.35	0.10		2.0	0.56	2	10/8/12 11:19	WSD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.10		ND	0.77	2	10/8/12 11:19	WSD
1,2,4-Trimethylbenzene	ND	0.10		ND	0.49	2	10/8/12 11:19	WSD
1,3,5-Trimethylbenzene	ND	0.10		ND	0.49	2	10/8/12 11:19	WSD
Vinyl Acetate	ND	0.20		ND	0.70	2	10/8/12 11:19	WSD
Vinyl Chloride	ND	0.10		ND	0.26	2	10/8/12 11:19	WSD
m&p-Xylene	ND	0.20		ND	0.87	2	10/8/12 11:19	WSD
o-Xylene	ND	0.10		ND	0.43	2	10/8/12 11:19	WSD

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	96.2	70-130	10/8/12 11:19

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ANALYTICAL RESULTS

Project Location: Cohoes, NY
Date Received: 10/5/2012
Field Sample #: Ambient Air 2
Sample ID: 12J0233-10
Sample Matrix: Ambient Air
Sampled: 10/4/2012 12:55

Sample Description/Location:
Sub Description/Location:
Canister ID: 1666
Canister Size: 6 liter
Flow Controller ID: 4227
Sample Type: 1 hr

Work Order: 12J0233
Initial Vacuum(in Hg): -29
Final Vacuum(in Hg): -4
Receipt Vacuum(in Hg): -4
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv Results	ppbv RL	Flag	ug/m3 Results	ug/m3 RL	Dilution	Date/Time Analyzed	Analyst
Acetone	7.4	4.0		18	9.5	2	10/8/12 12:00	WSD
Benzene	0.24	0.10		0.77	0.32	2	10/8/12 12:00	WSD
Benzyl chloride	ND	0.10		ND	0.52	2	10/8/12 12:00	WSD
Bromodichloromethane	ND	0.10		ND	0.67	2	10/8/12 12:00	WSD
Bromoform	ND	0.10		ND	1.0	2	10/8/12 12:00	WSD
Bromomethane	ND	0.10		ND	0.39	2	10/8/12 12:00	WSD
1,3-Butadiene	ND	0.10		ND	0.22	2	10/8/12 12:00	WSD
2-Butanone (MEK)	ND	4.0		ND	12	2	10/8/12 12:00	WSD
Carbon Disulfide	ND	1.0		ND	3.1	2	10/8/12 12:00	WSD
Carbon Tetrachloride	ND	0.10		ND	0.63	2	10/8/12 12:00	WSD
Chlorobenzene	ND	0.10		ND	0.46	2	10/8/12 12:00	WSD
Chloroethane	ND	0.10		ND	0.26	2	10/8/12 12:00	WSD
Chloroform	ND	0.10		ND	0.49	2	10/8/12 12:00	WSD
Chloromethane	0.46	0.10		0.95	0.21	2	10/8/12 12:00	WSD
Cyclohexane	ND	0.10		ND	0.34	2	10/8/12 12:00	WSD
Dibromochloromethane	ND	0.10		ND	0.85	2	10/8/12 12:00	WSD
1,2-Dibromoethane (EDB)	ND	0.10		ND	0.77	2	10/8/12 12:00	WSD
1,2-Dichlorobenzene	ND	0.10		ND	0.60	2	10/8/12 12:00	WSD
1,3-Dichlorobenzene	ND	0.10		ND	0.60	2	10/8/12 12:00	WSD
1,4-Dichlorobenzene	ND	0.10		ND	0.60	2	10/8/12 12:00	WSD
Dichlorodifluoromethane (Freon 12)	0.45	0.10		2.2	0.49	2	10/8/12 12:00	WSD
1,1-Dichloroethane	ND	0.10		ND	0.40	2	10/8/12 12:00	WSD
1,2-Dichloroethane	ND	0.10		ND	0.40	2	10/8/12 12:00	WSD
1,1-Dichloroethylene	ND	0.10		ND	0.40	2	10/8/12 12:00	WSD
cis-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	10/8/12 12:00	WSD
trans-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	10/8/12 12:00	WSD
1,2-Dichloropropane	ND	0.10		ND	0.46	2	10/8/12 12:00	WSD
cis-1,3-Dichloropropene	ND	0.10		ND	0.45	2	10/8/12 12:00	WSD
trans-1,3-Dichloropropene	ND	0.10		ND	0.45	2	10/8/12 12:00	WSD
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10		ND	0.70	2	10/8/12 12:00	WSD
1,4-Dioxane	ND	0.10		ND	0.36	2	10/8/12 12:00	WSD
Ethanol	ND	4.0		ND	7.5	2	10/8/12 12:00	WSD
Ethyl Acetate	ND	0.10		ND	0.36	2	10/8/12 12:00	WSD
Ethylbenzene	0.11	0.10		0.46	0.43	2	10/8/12 12:00	WSD
4-Ethyltoluene	ND	0.10		ND	0.49	2	10/8/12 12:00	WSD
Heptane	0.13	0.10		0.52	0.41	2	10/8/12 12:00	WSD
Hexachlorobutadiene	ND	0.10		ND	1.1	2	10/8/12 12:00	WSD

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ANALYTICAL RESULTS

Project Location: Cohoes, NY
Date Received: 10/5/2012
Field Sample #: Ambient Air 2
Sample ID: 12J0233-10
Sample Matrix: Ambient Air
Sampled: 10/4/2012 12:55

Sample Description/Location:
Sub Description/Location:
Canister ID: 1666
Canister Size: 6 liter
Flow Controller ID: 4227
Sample Type: 1 hr

Work Order: 12J0233
Initial Vacuum(in Hg): -29
Final Vacuum(in Hg): -4
Receipt Vacuum(in Hg): -4
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv Results	ppbv RL	Flag	ug/m3 Results	ug/m3 RL	Dilution	Date/Time Analyzed	Analyst
Hexane	ND	4.0		ND	14	2	10/8/12 12:00	WSD
2-Hexanone (MBK)	ND	0.10		ND	0.41	2	10/8/12 12:00	WSD
Isopropanol	ND	4.0		ND	9.8	2	10/8/12 12:00	WSD
Methyl tert-Butyl Ether (MTBE)	ND	0.10		ND	0.36	2	10/8/12 12:00	WSD
Methylene Chloride	ND	1.0		ND	3.5	2	10/8/12 12:00	WSD
4-Methyl-2-pentanone (MIBK)	ND	0.10		ND	0.41	2	10/8/12 12:00	WSD
Naphthalene	ND	0.10		ND	0.52	2	10/8/12 12:00	WSD
Propene	ND	4.0		ND	6.9	2	10/8/12 12:00	WSD
Styrene	ND	0.10		ND	0.43	2	10/8/12 12:00	WSD
1,1,2,2-Tetrachloroethane	ND	0.10		ND	0.69	2	10/8/12 12:00	WSD
Tetrachloroethylene	ND	0.10		ND	0.68	2	10/8/12 12:00	WSD
Tetrahydrofuran	ND	0.10		ND	0.29	2	10/8/12 12:00	WSD
Toluene	0.76	0.10		2.9	0.38	2	10/8/12 12:00	WSD
1,2,4-Trichlorobenzene	ND	0.20		ND	1.5	2	10/8/12 12:00	WSD
1,1,1-Trichloroethane	ND	0.10		ND	0.55	2	10/8/12 12:00	WSD
1,1,2-Trichloroethane	ND	0.10		ND	0.55	2	10/8/12 12:00	WSD
Trichloroethylene	ND	0.10		ND	0.54	2	10/8/12 12:00	WSD
Trichlorofluoromethane (Freon 11)	0.25	0.10		1.4	0.56	2	10/8/12 12:00	WSD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.10		ND	0.77	2	10/8/12 12:00	WSD
1,2,4-Trimethylbenzene	ND	0.10		ND	0.49	2	10/8/12 12:00	WSD
1,3,5-Trimethylbenzene	ND	0.10		ND	0.49	2	10/8/12 12:00	WSD
Vinyl Acetate	ND	0.20		ND	0.70	2	10/8/12 12:00	WSD
Vinyl Chloride	ND	0.10		ND	0.26	2	10/8/12 12:00	WSD
m&p-Xylene	0.33	0.20		1.4	0.87	2	10/8/12 12:00	WSD
o-Xylene	0.12	0.10		0.52	0.43	2	10/8/12 12:00	WSD

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	96.0	70-130	10/8/12 12:00

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ANALYTICAL RESULTS

Project Location: Cohoes, NY
Date Received: 10/5/2012
Field Sample #: SV-9
Sample ID: 12J0233-11
Sample Matrix: Soil Gas
Sampled: 10/4/2012 12:55

Sample Description/Location:
Sub Description/Location:
Canister ID: 1667
Canister Size: 6 liter
Flow Controller ID: 4225
Sample Type: 1 hr

Work Order: 12J0233
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): -4
Receipt Vacuum(in Hg): -4
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

	ppbv			ug/m3			Date/Time	
Analyte	Results	RL	Flag	Results	RL	Dilution	Analyzed	Analyst
Acetone	ND	40		ND	95	20	10/6/12 11:26	WSD
Benzene	ND	1.0		ND	3.2	20	10/6/12 11:26	WSD
Benzyl chloride	ND	1.0		ND	5.2	20	10/6/12 11:26	WSD
Bromodichloromethane	ND	1.0		ND	6.7	20	10/6/12 11:26	WSD
Bromoform	ND	1.0		ND	10	20	10/6/12 11:26	WSD
Bromomethane	ND	1.0		ND	3.9	20	10/6/12 11:26	WSD
1,3-Butadiene	ND	1.0		ND	2.2	20	10/6/12 11:26	WSD
2-Butanone (MEK)	ND	40		ND	120	20	10/6/12 11:26	WSD
Carbon Disulfide	ND	10		ND	31	20	10/6/12 11:26	WSD
Carbon Tetrachloride	ND	1.0		ND	6.3	20	10/6/12 11:26	WSD
Chlorobenzene	ND	1.0		ND	4.6	20	10/6/12 11:26	WSD
Chloroethane	ND	1.0		ND	2.6	20	10/6/12 11:26	WSD
Chloroform	3.7	1.0		18	4.9	20	10/6/12 11:26	WSD
Chloromethane	ND	1.0		ND	2.1	20	10/6/12 11:26	WSD
Cyclohexane	ND	1.0		ND	3.4	20	10/6/12 11:26	WSD
Dibromochloromethane	ND	1.0		ND	8.5	20	10/6/12 11:26	WSD
1,2-Dibromoethane (EDB)	ND	1.0		ND	7.7	20	10/6/12 11:26	WSD
1,2-Dichlorobenzene	ND	1.0		ND	6.0	20	10/6/12 11:26	WSD
1,3-Dichlorobenzene	ND	1.0		ND	6.0	20	10/6/12 11:26	WSD
1,4-Dichlorobenzene	ND	1.0		ND	6.0	20	10/6/12 11:26	WSD
Dichlorodifluoromethane (Freon 12)	ND	1.0		ND	4.9	20	10/6/12 11:26	WSD
1,1-Dichloroethane	ND	1.0		ND	4.0	20	10/6/12 11:26	WSD
1,2-Dichloroethane	ND	1.0		ND	4.0	20	10/6/12 11:26	WSD
1,1-Dichloroethylene	ND	1.0		ND	4.0	20	10/6/12 11:26	WSD
cis-1,2-Dichloroethylene	64	1.0		250	4.0	20	10/6/12 11:26	WSD
trans-1,2-Dichloroethylene	ND	1.0		ND	4.0	20	10/6/12 11:26	WSD
1,2-Dichloropropane	ND	1.0		ND	4.6	20	10/6/12 11:26	WSD
cis-1,3-Dichloropropene	ND	1.0		ND	4.5	20	10/6/12 11:26	WSD
trans-1,3-Dichloropropene	ND	1.0		ND	4.5	20	10/6/12 11:26	WSD
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	1.0		ND	7.0	20	10/6/12 11:26	WSD
1,4-Dioxane	ND	1.0		ND	3.6	20	10/6/12 11:26	WSD
Ethanol	ND	40		ND	75	20	10/6/12 11:26	WSD
Ethyl Acetate	ND	1.0		ND	3.6	20	10/6/12 11:26	WSD
Ethylbenzene	ND	1.0		ND	4.3	20	10/6/12 11:26	WSD
4-Ethyltoluene	ND	1.0		ND	4.9	20	10/6/12 11:26	WSD
Heptane	ND	1.0		ND	4.1	20	10/6/12 11:26	WSD
Hexachlorobutadiene	ND	1.0		ND	11	20	10/6/12 11:26	WSD

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ANALYTICAL RESULTS

Project Location: Cohoes, NY
Date Received: 10/5/2012
Field Sample #: SV-9
Sample ID: 12J0233-11
Sample Matrix: Soil Gas
Sampled: 10/4/2012 12:55

Sample Description/Location:
Sub Description/Location:
Canister ID: 1667
Canister Size: 6 liter
Flow Controller ID: 4225
Sample Type: 1 hr

Work Order: 12J0233
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): -4
Receipt Vacuum(in Hg): -4
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

	ppbv			ug/m3			Date/Time	
Analyte	**Results**	**RL**	**Flag**	**Results**	**RL**	**Dilution**	**Analyzed**	**Analyst**
Hexane	ND	40		ND	140	20	10/6/12 11:26	WSD
2-Hexanone (MBK)	ND	1.0		ND	4.1	20	10/6/12 11:26	WSD
Isopropanol	ND	40		ND	98	20	10/6/12 11:26	WSD
Methyl tert-Butyl Ether (MTBE)	ND	1.0		ND	3.6	20	10/6/12 11:26	WSD
Methylene Chloride	ND	10		ND	35	20	10/6/12 11:26	WSD
4-Methyl-2-pentanone (MIBK)	ND	1.0		ND	4.1	20	10/6/12 11:26	WSD
Naphthalene	ND	1.0		ND	5.2	20	10/6/12 11:26	WSD
Propene	ND	40		ND	69	20	10/6/12 11:26	WSD
Styrene	ND	1.0		ND	4.3	20	10/6/12 11:26	WSD
1,1,2,2-Tetrachloroethane	ND	1.0		ND	6.9	20	10/6/12 11:26	WSD
Tetrachloroethylene	8400	40		57000	270	800	10/8/12 7:53	WSD
Tetrahydrofuran	ND	1.0		ND	2.9	20	10/6/12 11:26	WSD
Toluene	ND	1.0		ND	3.8	20	10/6/12 11:26	WSD
1,2,4-Trichlorobenzene	ND	2.0		ND	15	20	10/6/12 11:26	WSD
1,1,1-Trichloroethane	2.4	1.0		13	5.5	20	10/6/12 11:26	WSD
1,1,2-Trichloroethane	ND	1.0		ND	5.5	20	10/6/12 11:26	WSD
Trichloroethylene	290	1.0		1600	5.4	20	10/6/12 11:26	WSD
Trichlorofluoromethane (Freon 11)	45	1.0		260	5.6	20	10/6/12 11:26	WSD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0		ND	7.7	20	10/6/12 11:26	WSD
1,2,4-Trimethylbenzene	ND	1.0		ND	4.9	20	10/6/12 11:26	WSD
1,3,5-Trimethylbenzene	ND	1.0		ND	4.9	20	10/6/12 11:26	WSD
Vinyl Acetate	ND	2.0		ND	7.0	20	10/6/12 11:26	WSD
Vinyl Chloride	ND	1.0		ND	2.6	20	10/6/12 11:26	WSD
m&p-Xylene	ND	2.0		ND	8.7	20	10/6/12 11:26	WSD
o-Xylene	ND	1.0		ND	4.3	20	10/6/12 11:26	WSD

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	95.5	70-130	10/8/12 7:53
4-Bromofluorobenzene (1)	96.3	70-130	10/6/12 11:26

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Sample Extraction Data

Prep Method: TO-15 Prep-EPA TO-15

Lab Number [Field ID]	Batch	Pressure Dilution	Pre Dilution	Pre-Dil Initial mL	Pre-Dil Final mL	Default Injection mL	Actual Injection mL	Date
12J0233-01RE1 [SV-6]	B060614	2	100	10	1000	400	200	10/07/12
12J0233-02 [SV-7]	B060614	2	1	N/A	1000	400	400	10/07/12
12J0233-03 [Dup]	B060614	2	1	N/A	1000	400	400	10/07/12
12J0233-04 [SV-2]	B060614	2	1	N/A	1000	400	400	10/07/12
12J0233-05 [SV-1]	B060614	2	1	N/A	1000	400	400	10/07/12
12J0233-06RE1 [SV-8]	B060614	2	100	10	1000	400	100	10/07/12
12J0233-09 [SV-10]	B060614	2	1	N/A	1000	400	400	10/07/12
12J0233-10 [Ambient Air 2]	B060614	2	1	N/A	1000	400	400	10/07/12
12J0233-11RE1 [SV-9]	B060614	2	100	10	1000	400	100	10/07/12

Prep Method: TO-15 Prep-EPA TO-15

Lab Number [Field ID]	Batch	Pressure Dilution	Pre Dilution	Pre-Dil Initial mL	Pre-Dil Final mL	Default Injection mL	Actual Injection mL	Date
12J0233-01 [SV-6]	B060616	2	1	N/A	1000	400	40	10/05/12
12J0233-06 [SV-8]	B060616	2	1	N/A	1000	400	40	10/05/12
12J0233-11 [SV-9]	B060616	2	1	N/A	1000	400	40	10/05/12

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QUALITY CONTROL

Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv Results	ppbv RL	ug/m3 Results	ug/m3 RL	Spike Level ppbv	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch B060614 - TO-15 Prep											
Blank (B060614-BLK1)					Prepared & Analyzed: 10/07/12						
Acetone	ND	1.0									
Benzene	ND	0.025									
Benzyl chloride	ND	0.025									
Bromodichloromethane	ND	0.025									
Bromoform	ND	0.025									
Bromomethane	ND	0.025									
1,3-Butadiene	ND	0.025									
2-Butanone (MEK)	ND	1.0									
Carbon Disulfide	ND	0.25									
Carbon Tetrachloride	ND	0.025									
Chlorobenzene	ND	0.025									
Chloroethane	ND	0.025									
Chloroform	ND	0.025									
Chloromethane	ND	0.025									
Cyclohexane	ND	0.025									
Dibromochloromethane	ND	0.025									
1,2-Dibromoethane (EDB)	ND	0.025									
1,2-Dichlorobenzene	ND	0.025									
1,3-Dichlorobenzene	ND	0.025									
1,4-Dichlorobenzene	ND	0.025									
Dichlorodifluoromethane (Freon 12)	ND	0.025									
1,1-Dichloroethane	ND	0.025									
1,2-Dichloroethane	ND	0.025									
1,1-Dichloroethylene	ND	0.025									
cis-1,2-Dichloroethylene	ND	0.025									
trans-1,2-Dichloroethylene	ND	0.025									
1,2-Dichloropropane	ND	0.025									
cis-1,3-Dichloropropene	ND	0.025									
trans-1,3-Dichloropropene	ND	0.025									
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.025									
1,4-Dioxane	ND	0.025									
Ethanol	ND	1.0									
Ethyl Acetate	ND	0.025									
Ethylbenzene	ND	0.025									
4-Ethyltoluene	ND	0.025									
Heptane	ND	0.025									
Hexachlorobutadiene	ND	0.025									
Hexane	ND	1.0									
2-Hexanone (MBK)	ND	0.025									
Isopropanol	ND	1.0									
Methyl tert-Butyl Ether (MTBE)	ND	0.025									
Methylene Chloride	ND	0.25									
4-Methyl-2-pentanone (MIBK)	ND	0.025									
Naphthalene	ND	0.025									
Propene	ND	1.0									
Styrene	ND	0.025									

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QUALITY CONTROL

Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv Results	ppbv RL	ug/m3 Results	ug/m3 RL	Spike Level ppbv	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch B060614 - TO-15 Prep											
Blank (B060614-BLK1)					Prepared & Analyzed: 10/07/12						
1,1,2,2-Tetrachloroethane	ND	0.025									
Tetrachloroethylene	ND	0.025									
Tetrahydrofuran	ND	0.025									
Toluene	ND	0.025									
1,2,4-Trichlorobenzene	ND	0.050									
1,1,1-Trichloroethane	ND	0.025									
1,1,2-Trichloroethane	ND	0.025									
Trichloroethylene	ND	0.025									
Trichlorofluoromethane (Freon 11)	ND	0.025									
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.025									
1,2,4-Trimethylbenzene	ND	0.025									
1,3,5-Trimethylbenzene	ND	0.025									
Vinyl Acetate	ND	0.050									
Vinyl Chloride	ND	0.025									
m&p-Xylene	ND	0.050									
o-Xylene	ND	0.025									
Surrogate: 4-Bromofluorobenzene (1)	*7.74*				*8.00*		*96.7*	*70-130*			
LCS (B060614-BS1)					Prepared & Analyzed: 10/07/12						
Acetone	5.02				5.00		100	70-130			
Benzene	4.44				5.00		88.9	70-130			
Benzyl chloride	4.88				5.00		97.5	70-130			
Bromodichloromethane	5.22				5.00		104	70-130			
Bromoform	6.45				5.00		129	70-130			V-06
Bromomethane	3.78				5.00		75.7	70-130			
1,3-Butadiene	3.85				5.00		77.0	70-130			
2-Butanone (MEK)	5.26				5.00		105	70-130			
Carbon Disulfide	4.45				5.00		89.0	70-130			
Carbon Tetrachloride	5.42				5.00		108	70-130			
Chlorobenzene	5.02				5.00		100	70-130			
Chloroethane	3.91				5.00		78.2	70-130			
Chloroform	4.37				5.00		87.4	70-130			
Chloromethane	3.75				5.00		75.0	70-130			
Cyclohexane	4.88				5.00		97.5	70-130			
Dibromochloromethane	6.03				5.00		121	70-130			
1,2-Dibromoethane (EDB)	5.23				5.00		105	70-130			
1,2-Dichlorobenzene	4.55				5.00		90.9	70-130			
1,3-Dichlorobenzene	4.71				5.00		94.3	70-130			
1,4-Dichlorobenzene	4.71				5.00		94.2	70-130			
Dichlorodifluoromethane (Freon 12)	4.46				5.00		89.3	70-130			
1,1-Dichloroethane	4.28				5.00		85.6	70-130			
1,2-Dichloroethane	4.61				5.00		92.2	70-130			
1,1-Dichloroethylene	4.16				5.00		83.3	70-130			
cis-1,2-Dichloroethylene	4.57				5.00		91.5	70-130			
trans-1,2-Dichloroethylene	4.21				5.00		84.1	70-130			
1,2-Dichloropropane	4.75				5.00		95.0	70-130			

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QUALITY CONTROL

Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv Results	ppbv RL	ug/m3 Results	ug/m3 RL	Spike Level ppbv	Source Result	%REC		%REC Limits	RPD	RPD Limit	Flag
Batch B060614 - TO-15 Prep												
LCS (B060614-BS1)					Prepared & Analyzed: 10/07/12							
cis-1,3-Dichloropropene	5.81				5.00		116		70-130			
trans-1,3-Dichloropropene	6.81				5.00		**136**	*	70-130			L-05, V-06
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	4.50				5.00		90.0		70-130			
1,4-Dioxane	4.91				5.00		98.1		70-130			
Ethanol	3.54				5.00		70.8		70-130			
Ethyl Acetate	6.32				5.00		126		70-130			
Ethylbenzene	5.42				5.00		108		70-130			
4-Ethyltoluene	5.08				5.00		102		70-130			
Heptane	5.38				5.00		108		70-130			
Hexachlorobutadiene	4.06				5.00		81.1		70-130			
Hexane	5.32				5.00		106		70-130			
2-Hexanone (MBK)	4.75				5.00		95.0		70-130			
Isopropanol	4.18				5.00		83.5		70-130			
Methyl tert-Butyl Ether (MTBE)	5.42				5.00		108		70-130			
Methylene Chloride	4.27				5.00		85.3		70-130			
4-Methyl-2-pentanone (MIBK)	5.13				5.00		103		70-130			
Naphthalene	4.54				5.00		90.7		70-130			
Propene	4.41				5.00		88.2		70-130			
Styrene	5.29				5.00		106		70-130			
1,1,2,2-Tetrachloroethane	4.50				5.00		90.1		70-130			
Tetrachloroethylene	5.05				5.00		101		70-130			
Tetrahydrofuran	5.46				5.00		109		70-130			
Toluene	5.21				5.00		104		70-130			
1,2,4-Trichlorobenzene	4.42				5.00		88.4		70-130			
1,1,1-Trichloroethane	4.70				5.00		94.0		70-130			
1,1,2-Trichloroethane	5.11				5.00		102		70-130			
Trichloroethylene	4.69				5.00		93.9		70-130			
Trichlorofluoromethane (Freon 11)	4.35				5.00		87.0		70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	4.41				5.00		88.2		70-130			
1,2,4-Trimethylbenzene	5.02				5.00		100		70-130			
1,3,5-Trimethylbenzene	4.97				5.00		99.5		70-130			
Vinyl Acetate	5.80				5.00		116		70-130			
Vinyl Chloride	3.74				5.00		74.7		70-130			
m&p-Xylene	11.1				10.0		111		70-130			
o-Xylene	5.46				5.00		109		70-130			
Surrogate: 4-Bromofluorobenzene (1)	*8.01*				*8.00*		*100*		*70-130*			

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QUALITY CONTROL

Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv Results	ppbv RL	ug/m3 Results	ug/m3 RL	Spike Level ppbv	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch B060614 - TO-15 Prep											
Duplicate (B060614-DUP1)			**Source: 12J0233-10**		Prepared: 10/07/12 Analyzed: 10/08/12						
Acetone	6.7	4.0	16	9.5		7.4			10.1	25	
Benzene	0.25	0.10	0.79	0.32		0.24			3.28	25	
Benzyl chloride	ND	0.10	ND	0.52		ND				25	
Bromodichloromethane	ND	0.10	ND	0.67		ND				25	
Bromoform	ND	0.10	ND	1.0		ND				25	
Bromomethane	ND	0.10	ND	0.39		ND				25	
1,3-Butadiene	ND	0.10	ND	0.22		ND				25	
2-Butanone (MEK)	0.38	4.0	1.1	12		0.37			0.533	25	
Carbon Disulfide	ND	1.0	ND	3.1		ND				25	
Carbon Tetrachloride	ND	0.10	ND	0.63		ND				25	
Chlorobenzene	ND	0.10	ND	0.46		ND				25	
Chloroethane	ND	0.10	ND	0.26		ND				25	
Chloroform	ND	0.10	ND	0.49		ND				25	
Chloromethane	0.41	0.10	0.85	0.21		0.46			10.6	25	
Cyclohexane	ND	0.10	ND	0.34		ND				25	
Dibromochloromethane	ND	0.10	ND	0.85		ND				25	
1,2-Dibromoethane (EDB)	ND	0.10	ND	0.77		ND				25	
1,2-Dichlorobenzene	ND	0.10	ND	0.60		ND				25	
1,3-Dichlorobenzene	ND	0.10	ND	0.60		ND				25	
1,4-Dichlorobenzene	ND	0.10	ND	0.60		ND				25	
Dichlorodifluoromethane (Freon 12)	0.45	0.10	2.2	0.49		0.45			1.33	25	
1,1-Dichloroethane	ND	0.10	ND	0.40		ND				25	
1,2-Dichloroethane	ND	0.10	ND	0.40		ND				25	
1,1-Dichloroethylene	ND	0.10	ND	0.40		ND				25	
cis-1,2-Dichloroethylene	ND	0.10	ND	0.40		ND				25	
trans-1,2-Dichloroethylene	ND	0.10	ND	0.40		ND				25	
1,2-Dichloropropane	ND	0.10	ND	0.46		ND				25	
cis-1,3-Dichloropropene	ND	0.10	ND	0.45		ND				25	
trans-1,3-Dichloropropene	ND	0.10	ND	0.45		ND				25	
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10	ND	0.70		ND				25	
1,4-Dioxane	ND	0.10	ND	0.36		ND				25	
Ethanol	3.6	4.0	6.8	7.5		4.0			9.09	25	
Ethyl Acetate	ND	0.10	ND	0.36		ND				25	
Ethylbenzene	0.10	0.10	0.45	0.43		0.11			1.90	25	
4-Ethyltoluene	ND	0.10	ND	0.49		ND				25	
Heptane	0.14	0.10	0.56	0.41		0.13			7.63	25	
Hexachlorobutadiene	ND	0.10	ND	1.1		ND				25	
Hexane	0.56	4.0	2.0	14		0.58			4.21	25	
2-Hexanone (MBK)	ND	0.10	ND	0.41		ND				25	
Isopropanol	ND	4.0	ND	9.8		0.56				25	
Methyl tert-Butyl Ether (MTBE)	ND	0.10	ND	0.36		ND				25	
Methylene Chloride	0.68	1.0	2.3	3.5		0.70			3.77	25	
4-Methyl-2-pentanone (MIBK)	ND	0.10	ND	0.41		ND				25	
Naphthalene	ND	0.10	ND	0.52		ND				25	
Propene	ND	4.0	ND	6.9		ND				25	
Styrene	ND	0.10	ND	0.43		ND				25	

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QUALITY CONTROL

Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv Results	ppbv RL	ug/m3 Results	ug/m3 RL	Spike Level ppbv	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch B060614 - TO-15 Prep											
Duplicate (B060614-DUP1)			**Source: 12J0233-10**		Prepared: 10/07/12 Analyzed: 10/08/12						
1,1,2,2-Tetrachloroethane	ND	0.10	ND	0.69		ND				25	
Tetrachloroethylene	ND	0.10	ND	0.68		ND				25	
Tetrahydrofuran	ND	0.10	ND	0.29		ND				25	
Toluene	0.77	0.10	2.9	0.38		0.76			0.782	25	
1,2,4-Trichlorobenzene	ND	0.20	ND	1.5		ND				25	
1,1,1-Trichloroethane	ND	0.10	ND	0.55		ND				25	
1,1,2-Trichloroethane	ND	0.10	ND	0.55		ND				25	
Trichloroethylene	ND	0.10	ND	0.54		ND				25	
Trichlorofluoromethane (Freon 11)	0.24	0.10	1.3	0.56		0.25			3.31	25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.10	ND	0.77		ND				25	
1,2,4-Trimethylbenzene	ND	0.10	ND	0.49		ND				25	
1,3,5-Trimethylbenzene	ND	0.10	ND	0.49		ND				25	
Vinyl Acetate	ND	0.20	ND	0.70		ND				25	
Vinyl Chloride	ND	0.10	ND	0.26		ND				25	
m&p-Xylene	0.33	0.20	1.4	0.87		0.33			0.612	25	
o-Xylene	0.12	0.10	0.51	0.43		0.12			1.68	25	
Surrogate: 4-Bromofluorobenzene (1)	*7.66*				*8.00*		*95.8*	*70-130*			
Batch B060616 - TO-15 Prep											
Blank (B060616-BLK1)					Prepared & Analyzed: 10/05/12						
Acetone	ND	1.0									
Benzene	ND	0.025									
Benzyl chloride	ND	0.025									
Bromodichloromethane	ND	0.025									
Bromoform	ND	0.025									
Bromomethane	ND	0.025									
1,3-Butadiene	ND	0.025									
2-Butanone (MEK)	ND	1.0									
Carbon Disulfide	ND	0.25									
Carbon Tetrachloride	ND	0.025									
Chlorobenzene	ND	0.025									
Chloroethane	ND	0.025									
Chloroform	ND	0.025									
Chloromethane	ND	0.025									
Cyclohexane	ND	0.025									
Dibromochloromethane	ND	0.025									
1,2-Dibromoethane (EDB)	ND	0.025									
1,2-Dichlorobenzene	ND	0.025									
1,3-Dichlorobenzene	ND	0.025									
1,4-Dichlorobenzene	ND	0.025									
Dichlorodifluoromethane (Freon 12)	ND	0.025									
1,1-Dichloroethane	ND	0.025									
1,2-Dichloroethane	ND	0.025									
1,1-Dichloroethylene	ND	0.025									
cis-1,2-Dichloroethylene	ND	0.025									

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Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv Results	ppbv RL	ug/m3 Results	ug/m3 RL	Spike Level ppbv	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch B060616 - TO-15 Prep											
Blank (B060616-BLK1)					Prepared & Analyzed: 10/05/12						
trans-1,2-Dichloroethylene	ND	0.025									
1,2-Dichloropropane	ND	0.025									
cis-1,3-Dichloropropene	ND	0.025									
trans-1,3-Dichloropropene	ND	0.025									
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.025									
1,4-Dioxane	ND	0.025									
Ethanol	ND	1.0									
Ethyl Acetate	ND	0.025									
Ethylbenzene	ND	0.025									
4-Ethyltoluene	ND	0.025									
Heptane	ND	0.025									
Hexachlorobutadiene	ND	0.025									
Hexane	ND	1.0									
2-Hexanone (MBK)	ND	0.025									
Isopropanol	ND	1.0									
Methyl tert-Butyl Ether (MTBE)	ND	0.025									
Methylene Chloride	ND	0.25									
4-Methyl-2-pentanone (MIBK)	ND	0.025									
Naphthalene	ND	0.025									
Propene	ND	1.0									
Styrene	ND	0.025									
1,1,2,2-Tetrachloroethane	ND	0.025									
Tetrachloroethylene	ND	0.025									
Tetrahydrofuran	ND	0.025									
Toluene	ND	0.025									
1,2,4-Trichlorobenzene	ND	0.050									
1,1,1-Trichloroethane	ND	0.025									
1,1,2-Trichloroethane	ND	0.025									
Trichloroethylene	ND	0.025									
Trichlorofluoromethane (Freon 11)	ND	0.025									
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.025									
1,2,4-Trimethylbenzene	ND	0.025									
1,3,5-Trimethylbenzene	ND	0.025									
Vinyl Acetate	ND	0.050									
Vinyl Chloride	ND	0.025									
m&p-Xylene	ND	0.050									
o-Xylene	ND	0.025									
Surrogate: 4-Bromofluorobenzene (1)	*7.99*				*8.00*		*99.9*	*70-130*			

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QUALITY CONTROL

Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv Results	ppbv RL	ug/m3 Results	ug/m3 RL	Spike Level ppbv	Source Result	%REC		%REC Limits	RPD	RPD Limit	Flag
Batch B060616 - TO-15 Prep												
LCS (B060616-BS1)					Prepared & Analyzed: 10/05/12							
Acetone	5.42				5.00		108		70-130			
Benzene	4.53				5.00		90.5		70-130			
Benzyl chloride	4.77				5.00		95.4		70-130			
Bromodichloromethane	4.92				5.00		98.4		70-130			
Bromoform	6.11				5.00		122		70-130			V-06
Bromomethane	3.76				5.00		75.2		70-130			
1,3-Butadiene	4.05				5.00		81.0		70-130			
2-Butanone (MEK)	5.38				5.00		108		70-130			
Carbon Disulfide	4.93				5.00		98.5		70-130			
Carbon Tetrachloride	4.94				5.00		98.7		70-130			
Chlorobenzene	5.00				5.00		100		70-130			
Chloroethane	3.88				5.00		77.6		70-130			
Chloroform	4.57				5.00		91.4		70-130			
Chloromethane	3.85				5.00		77.0		70-130			
Cyclohexane	5.05				5.00		101		70-130			
Dibromochloromethane	5.86				5.00		117		70-130			
1,2-Dibromoethane (EDB)	5.22				5.00		104		70-130			
1,2-Dichlorobenzene	4.42				5.00		88.4		70-130			
1,3-Dichlorobenzene	4.50				5.00		90.0		70-130			
1,4-Dichlorobenzene	4.53				5.00		90.6		70-130			
Dichlorodifluoromethane (Freon 12)	4.38				5.00		87.6		70-130			
1,1-Dichloroethane	4.53				5.00		90.5		70-130			
1,2-Dichloroethane	4.55				5.00		90.9		70-130			
1,1-Dichloroethylene	4.34				5.00		86.8		70-130			
cis-1,2-Dichloroethylene	4.91				5.00		98.3		70-130			
trans-1,2-Dichloroethylene	4.54				5.00		90.8		70-130			
1,2-Dichloropropane	4.68				5.00		93.5		70-130			
cis-1,3-Dichloropropene	5.80				5.00		116		70-130			
trans-1,3-Dichloropropene	6.70				5.00		**134**	*	70-130			L-05, V-06
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	4.47				5.00		89.3		70-130			
1,4-Dioxane	5.10				5.00		102		70-130			
Ethanol	3.92				5.00		78.3		70-130			
Ethyl Acetate	6.86				5.00		**137**	*	70-130			L-05, V-06
Ethylbenzene	5.38				5.00		108		70-130			
4-Ethyltoluene	5.02				5.00		100		70-130			
Heptane	5.20				5.00		104		70-130			
Hexachlorobutadiene	3.87				5.00		77.3		70-130			
Hexane	5.30				5.00		106		70-130			
2-Hexanone (MBK)	4.38				5.00		87.5		70-130			
Isopropanol	4.91				5.00		98.3		70-130			
Methyl tert-Butyl Ether (MTBE)	6.07				5.00		121		70-130			
Methylene Chloride	4.31				5.00		86.2		70-130			
4-Methyl-2-pentanone (MIBK)	4.73				5.00		94.6		70-130			
Naphthalene	4.49				5.00		89.7		70-130			
Propene	4.42				5.00		88.5		70-130			
Styrene	5.32				5.00		106		70-130			

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QUALITY CONTROL

Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv Results	ppbv RL	ug/m3 Results	ug/m3 RL	Spike Level ppbv	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch B060616 - TO-15 Prep											
LCS (B060616-BS1)					Prepared & Analyzed: 10/05/12						
1,1,2,2-Tetrachloroethane	4.26				5.00		85.1	70-130			
Tetrachloroethylene	5.21				5.00		104	70-130			
Tetrahydrofuran	6.36				5.00		127	70-130			V-06
Toluene	5.33				5.00		107	70-130			
1,2,4-Trichlorobenzene	4.35				5.00		87.0	70-130			
1,1,1-Trichloroethane	4.33				5.00		86.7	70-130			
1,1,2-Trichloroethane	5.21				5.00		104	70-130			
Trichloroethylene	4.69				5.00		93.8	70-130			
Trichlorofluoromethane (Freon 11)	4.08				5.00		81.5	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	4.73				5.00		94.7	70-130			
1,2,4-Trimethylbenzene	4.85				5.00		97.0	70-130			
1,3,5-Trimethylbenzene	4.82				5.00		96.5	70-130			
Vinyl Acetate	6.04				5.00		121	70-130			
Vinyl Chloride	3.79				5.00		75.7	70-130			
m&p-Xylene	10.7				10.0		107	70-130			
o-Xylene	5.20				5.00		104	70-130			
Surrogate: 4-Bromofluorobenzene (1)	*8.03*				*8.00*		*100*	*70-130*			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
L-05	Laboratory fortified blank/laboratory control sample recovery is outside of control limits. Reported value for this compound is likely to be biased on the high side.
V-06	Continuing calibration did not meet method specifications and was biased on the high side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the high side.

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INTERNAL STANDARD AREA AND RT SUMMARY

EPA TO-15

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (S003006-CCV1)			Lab File ID: G100702.D			Analyzed: 10/07/12 18:46			
Bromochloromethane (1)	304699	8.777	364894	8.777	84	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	835633	10.663	1025662	10.663	81	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	732952	15.43	916695	15.43	80	60 - 140	0.0000	+/-0.50	
LCS (B060614-BS1)			Lab File ID: G100703.D			Analyzed: 10/07/12 19:26			
Bromochloromethane (1)	327080	8.777	304699	8.777	107	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	898075	10.663	835633	10.663	107	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	798949	15.43	732952	15.43	109	60 - 140	0.0000	+/-0.50	
Blank (B060614-BLK1)			Lab File ID: G100707.D			Analyzed: 10/07/12 22:11			
Bromochloromethane (1)	313034	8.777	304699	8.777	103	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	860924	10.663	835633	10.663	103	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	758404	15.43	732952	15.43	103	60 - 140	0.0000	+/-0.50	
SV-6 (12J0233-01RE1)			Lab File ID: G100719.D			Analyzed: 10/08/12 06:35			
Bromochloromethane (1)	303820	8.786	304699	8.777	100	60 - 140	0.0090	+/-0.50	
1,4-Difluorobenzene (1)	818937	10.663	835633	10.663	98	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	730082	15.43	732952	15.43	100	60 - 140	0.0000	+/-0.50	
SV-8 (12J0233-06RE1)			Lab File ID: G100720.D			Analyzed: 10/08/12 07:15			
Bromochloromethane (1)	338109	8.786	304699	8.777	111	60 - 140	0.0090	+/-0.50	
1,4-Difluorobenzene (1)	885991	10.671	835633	10.663	106	60 - 140	0.0080	+/-0.50	
Chlorobenzene-d5 (1)	781289	15.43	732952	15.43	107	60 - 140	0.0000	+/-0.50	
SV-9 (12J0233-11RE1)			Lab File ID: G100721.D			Analyzed: 10/08/12 07:53			
Bromochloromethane (1)	320961	8.794	304699	8.777	105	60 - 140	0.0170	+/-0.50	
1,4-Difluorobenzene (1)	850375	10.671	835633	10.663	102	60 - 140	0.0080	+/-0.50	
Chlorobenzene-d5 (1)	771631	15.43	732952	15.43	105	60 - 140	0.0000	+/-0.50	
SV-7 (12J0233-02)			Lab File ID: G100722.D			Analyzed: 10/08/12 08:34			
Bromochloromethane (1)	318252	8.794	304699	8.777	104	60 - 140	0.0170	+/-0.50	
1,4-Difluorobenzene (1)	856416	10.671	835633	10.663	102	60 - 140	0.0080	+/-0.50	
Chlorobenzene-d5 (1)	780482	15.43	732952	15.43	106	60 - 140	0.0000	+/-0.50	
Dup (12J0233-03)			Lab File ID: G100723.D			Analyzed: 10/08/12 09:15			
Bromochloromethane (1)	317335	8.786	304699	8.777	104	60 - 140	0.0090	+/-0.50	
1,4-Difluorobenzene (1)	857078	10.671	835633	10.663	103	60 - 140	0.0080	+/-0.50	
Chlorobenzene-d5 (1)	766212	15.43	732952	15.43	105	60 - 140	0.0000	+/-0.50	
SV-2 (12J0233-04)			Lab File ID: G100724.D			Analyzed: 10/08/12 09:57			
Bromochloromethane (1)	325376	8.786	304699	8.777	107	60 - 140	0.0090	+/-0.50	
1,4-Difluorobenzene (1)	879357	10.671	835633	10.663	105	60 - 140	0.0080	+/-0.50	
Chlorobenzene-d5 (1)	786868	15.43	732952	15.43	107	60 - 140	0.0000	+/-0.50	

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INTERNAL STANDARD AREA AND RT SUMMARY

EPA TO-15

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
SV-1 (12J0233-05)			Lab File ID: G100725.D			Analyzed: 10/08/12 10:38			
Bromochloromethane (1)	329940	8.786	304699	8.777	108	60 - 140	0.0090	+/-0.50	
1,4-Difluorobenzene (1)	885645	10.671	835633	10.663	106	60 - 140	0.0080	+/-0.50	
Chlorobenzene-d5 (1)	798575	15.43	732952	15.43	109	60 - 140	0.0000	+/-0.50	
SV-10 (12J0233-09)			Lab File ID: G100726.D			Analyzed: 10/08/12 11:19			
Bromochloromethane (1)	327919	8.821	304699	8.777	108	60 - 140	0.0440	+/-0.50	
1,4-Difluorobenzene (1)	868723	10.688	835633	10.663	104	60 - 140	0.0250	+/-0.50	
Chlorobenzene-d5 (1)	796355	15.439	732952	15.43	109	60 - 140	0.0090	+/-0.50	
Ambient Air 2 (12J0233-10)			Lab File ID: G100727.D			Analyzed: 10/08/12 12:00			
Bromochloromethane (1)	325690	8.794	304699	8.777	107	60 - 140	0.0170	+/-0.50	
1,4-Difluorobenzene (1)	869220	10.671	835633	10.663	104	60 - 140	0.0080	+/-0.50	
Chlorobenzene-d5 (1)	779102	15.43	732952	15.43	106	60 - 140	0.0000	+/-0.50	
Duplicate (B060614-DUP1)			Lab File ID: G100728.D			Analyzed: 10/08/12 12:41			
Bromochloromethane (1)	327047	8.786	304699	8.777	107	60 - 140	0.0090	+/-0.50	
1,4-Difluorobenzene (1)	864479	10.671	835633	10.663	103	60 - 140	0.0080	+/-0.50	
Chlorobenzene-d5 (1)	783321	15.43	732952	15.43	107	60 - 140	0.0000	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY

EPA TO-15

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (S003007-CCV1)			Lab File ID: G100502.D			Analyzed: 10/05/12 14:25			
Bromochloromethane (1)	407051	8.786	364894	8.777	112	60 - 140	0.0090	+/-0.50	
1,4-Difluorobenzene (1)	1233845	10.663	1025662	10.663	120	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	1094780	15.43	916695	15.43	119	60 - 140	0.0000	+/-0.50	
LCS (B060616-BS1)			Lab File ID: G100503.D			Analyzed: 10/05/12 15:05			
Bromochloromethane (1)	406522	8.777	407051	8.786	100	60 - 140	-0.0090	+/-0.50	
1,4-Difluorobenzene (1)	1243859	10.663	1233845	10.663	101	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	1110624	15.43	1094780	15.43	101	60 - 140	0.0000	+/-0.50	
Blank (B060616-BLK1)			Lab File ID: G100507.D			Analyzed: 10/05/12 17:46			
Bromochloromethane (1)	369265	8.786	407051	8.786	91	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	1119606	10.671	1233845	10.663	91	60 - 140	0.0080	+/-0.50	
Chlorobenzene-d5 (1)	998397	15.43	1094780	15.43	91	60 - 140	0.0000	+/-0.50	
SV-6 (12J0233-01)			Lab File ID: G100523.D			Analyzed: 10/06/12 05:45			
Bromochloromethane (1)	336973	8.812	407051	8.786	83	60 - 140	0.0260	+/-0.50	
1,4-Difluorobenzene (1)	939621	10.688	1233845	10.663	76	60 - 140	0.0250	+/-0.50	
Chlorobenzene-d5 (1)	868136	15.439	1094780	15.43	79	60 - 140	0.0090	+/-0.50	

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INTERNAL STANDARD AREA AND RT SUMMARY

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Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
SV-8 (12J0233-06)			Lab File ID: G100528.D			Analyzed: 10/06/12 09:16			
Bromochloromethane (1)	314864	8.812	407051	8.786	77	60 - 140	0.0260	+/-0.50	
1,4-Difluorobenzene (1)	841005	10.688	1233845	10.663	68	60 - 140	0.0250	+/-0.50	
Chlorobenzene-d5 (1)	800451	15.439	1094780	15.43	73	60 - 140	0.0090	+/-0.50	
SV-9 (12J0233-11)			Lab File ID: G100531.D			Analyzed: 10/06/12 11:26			
Bromochloromethane (1)	307230	8.82	407051	8.786	75	60 - 140	0.0340	+/-0.50	
1,4-Difluorobenzene (1)	813130	10.696	1233845	10.663	66	60 - 140	0.0330	+/-0.50	
Chlorobenzene-d5 (1)	754796	15.439	1094780	15.43	69	60 - 140	0.0090	+/-0.50	

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CONTINUING CALIBRATION CHECK

EPA TO-15

S003006-CCV1

COMPOUND	TYPE	CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	A	5.00	5.08	0.7126714	0.7235153	0.05	1.5	30
Benzene	A	5.00	4.34	0.8487164	0.7358905	0.05	-13.3	30
Benzyl chloride	L	5.00	5.54	0.6369887	1.043067	0.05	10.8	30
Bromodichloromethane	A	5.00	5.28	0.5327017	0.5622047	0.05	5.5	30
Bromoform	A	5.00	6.96	0.4203669	0.5855532	0.05	39.3	30 *
Bromomethane	A	5.00	3.76	0.8168118	0.6139882	0.05	-24.8	30
1,3-Butadiene	A	5.00	3.84	0.4631792	0.3557872	0.05	-23.2	30
2-Butanone (MEK)	A	5.00	5.12	1.24241	1.271314	0.05	2.3	30
Carbon Disulfide	A	5.00	4.43	1.938373	1.716138	0.05	-11.5	30
Carbon Tetrachloride	A	5.00	5.39	0.4349828	0.4689982	0.05	7.8	30
Chlorobenzene	A	5.00	5.12	0.8098917	0.8297908	0.05	2.5	30
Chloroethane	A	5.00	3.99	0.3467297	0.2764748	0.05	-20.3	30
Chloroform	A	5.00	4.29	1.639031	1.406104	0.05	-14.2	30
Chloromethane	A	5.00	3.86	0.5820105	0.4492197	0.05	-22.8	30
Cyclohexane	A	5.00	4.83	0.3217001	0.3110265	0.05	-3.3	30
Dibromochloromethane	A	5.00	6.38	0.4895377	0.6242788	0.05	27.5	30
1,2-Dibromoethane (EDB)	A	5.00	5.35	0.5323027	0.5700281	0.05	7.1	30
1,2-Dichlorobenzene	A	5.00	5.06	0.7326058	0.7421801	0.05	1.3	30
1,3-Dichlorobenzene	A	5.00	5.23	0.7893665	0.8262937	0.05	4.7	30
1,4-Dichlorobenzene	A	5.00	5.21	0.779985	0.8120739	0.05	4.1	30
Dichlorodifluoromethane (Freon 12)	A	5.00	4.37	1.87627	1.641084	0.05	-12.5	30
1,1-Dichloroethane	A	5.00	4.10	1.45061	1.190342	0.05	-17.9	30
1,2-Dichloroethane	A	5.00	4.60	0.9854891	0.9063843	0.05	-8.0	30
1,1-Dichloroethylene	A	5.00	3.96	1.174116	0.9297149	0.05	-20.8	30
cis-1,2-Dichloroethylene	A	5.00	4.38	1.019706	0.8943173	0.05	-12.3	30
trans-1,2-Dichloroethylene	A	5.00	4.09	1.106768	0.9051293	0.05	-18.2	30
1,2-Dichloropropane	A	5.00	4.62	0.3192016	0.2952703	0.05	-7.5	30
cis-1,3-Dichloropropene	A	5.00	5.86	0.3761294	0.4409438	0.05	17.2	30
trans-1,3-Dichloropropene	A	5.00	6.50	0.2862563	0.3723663	0.05	30.1	30 *
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 1	A	5.00	4.28	1.974904	1.690219	0.05	-14.4	30
1,4-Dioxane	A	5.00	5.05	0.1649668	0.1665995	0.05	1.0	30
Ethanol	A	5.00	4.35	0.1628315	0.141732	0.05	-13.0	30
Ethyl Acetate	A	5.00	5.84	0.1864448	0.2177047	0.05	16.8	30
Ethylbenzene	A	5.00	5.58	1.212353	1.353322	0.05	11.6	30
4-Ethyltoluene	A	5.00	5.45	1.334153	1.454845	0.05	9.0	30
Heptane	A	5.00	5.43	0.2244505	0.2436764	0.05	8.6	30
Hexachlorobutadiene	A	5.00	5.11	0.4357014	0.4452308	0.05	2.2	30
Hexane	A	5.00	5.28	0.6658805	0.7027526	0.05	5.5	30

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CONTINUING CALIBRATION CHECK

EPA TO-15

S003006-CCV1

COMPOUND	TYPE	CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
2-Hexanone (MBK)	A	5.00	5.18	0.64304	0.6658422	0.05	3.5	30
Isopropanol	A	5.00	4.35	0.7879281	0.6857863	0.05	-13.0	30
Methyl tert-Butyl Ether (MTBE)	A	5.00	5.28	1.50069	1.586074	0.05	5.7	30
Methylene Chloride	A	5.00	4.18	0.8814779	0.7373887	0.05	-16.3	30
4-Methyl-2-pentanone (MIBK)	A	5.00	5.47	0.5559324	0.607752	0.05	9.3	30
Naphthalene	A	5.00	5.41	1.193352	1.291848	0.05	8.3	30
Propene	A	5.00	4.16	0.5599887	0.4663645	0.05	-16.7	30
Styrene	A	5.00	5.40	0.7322695	0.7912747	0.05	8.1	30
1,1,2,2-Tetrachloroethane	A	5.00	4.92	0.9535406	0.9391807	0.05	-1.5	30
Tetrachloroethylene	A	5.00	5.09	0.4117898	0.4189546	0.05	1.7	30
Tetrahydrofuran	A	5.00	5.43	0.2714584	0.2948641	0.05	8.6	30
Toluene	A	5.00	5.27	0.9603131	1.011845	0.05	5.4	30
1,2,4-Trichlorobenzene	A	5.00	5.34	0.4923621	0.5253255	0.05	6.7	30
1,1,1-Trichloroethane	A	5.00	4.62	0.5013922	0.4627716	0.05	-7.7	30
1,1,2-Trichloroethane	A	5.00	5.25	0.3497592	0.3670309	0.05	4.9	30
Trichloroethylene	A	5.00	4.63	0.3574694	0.3308706	0.05	-7.4	30
Trichlorofluoromethane (Freon 11)	A	5.00	4.40	1.788899	1.573965	0.05	-12.0	30
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113	A	5.00	4.26	1.402457	1.195814	0.05	-14.7	30
1,2,4-Trimethylbenzene	A	5.00	5.46	1.11855	1.221223	0.05	9.2	30
1,3,5-Trimethylbenzene	A	5.00	5.38	1.146416	1.233657	0.05	7.6	30
Vinyl Acetate	A	5.00	5.84	1.646634	1.923251	0.05	16.8	30
Vinyl Chloride	A	5.00	3.69	0.7482336	0.5517786	0.05	-26.3	30
m&p-Xylene	A	10.0	11.5	0.9999817	1.153738	0.05	15.4	30
o-Xylene	A	5.00	5.69	1.001417	1.140111	0.05	13.8	30

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

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CONTINUING CALIBRATION CHECK

EPA TO-15

S003007-CCV1

COMPOUND	TYPE	CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	A	5.00	4.98	0.7126714	0.7092458	0.05	-0.5	30
Benzene	A	5.00	4.62	0.8487164	0.7836278	0.05	-7.7	30
Benzyl chloride	L	5.00	5.42	0.6369887	1.021118	0.05	8.4	30
Bromodichloromethane	A	5.00	5.03	0.5327017	0.5362826	0.05	0.7	30
Bromoform	A	5.00	6.59	0.4203669	0.5538998	0.05	31.8	30 *
Bromomethane	A	5.00	3.83	0.8168118	0.6251364	0.05	-23.5	30
1,3-Butadiene	A	5.00	4.25	0.4631792	0.3939202	0.05	-15.0	30
2-Butanone (MEK)	A	5.00	5.50	1.24241	1.367542	0.05	10.1	30
Carbon Disulfide	A	5.00	5.06	1.938373	1.961114	0.05	1.2	30
Carbon Tetrachloride	A	5.00	4.94	0.4349828	0.4301921	0.05	-1.1	30
Chlorobenzene	A	5.00	5.22	0.8098917	0.8449215	0.05	4.3	30
Chloroethane	A	5.00	4.00	0.3467297	0.2772174	0.05	-20.0	30
Chloroform	A	5.00	4.57	1.639031	1.498096	0.05	-8.6	30
Chloromethane	A	5.00	4.03	0.5820105	0.4692287	0.05	-19.4	30
Cyclohexane	A	5.00	5.18	0.3217001	0.3335447	0.05	3.7	30
Dibromochloromethane	A	5.00	6.19	0.4895377	0.6056114	0.05	23.7	30
1,2-Dibromoethane (EDB)	A	5.00	5.46	0.5323027	0.5807516	0.05	9.1	30
1,2-Dichlorobenzene	A	5.00	4.96	0.7326058	0.726109	0.05	-0.9	30
1,3-Dichlorobenzene	A	5.00	5.01	0.7893665	0.7908263	0.05	0.2	30
1,4-Dichlorobenzene	A	5.00	5.01	0.779985	0.78173	0.05	0.2	30
Dichlorodifluoromethane (Freon 12)	A	5.00	4.41	1.87627	1.656335	0.05	-11.7	30
1,1-Dichloroethane	A	5.00	4.55	1.45061	1.321242	0.05	-8.9	30
1,2-Dichloroethane	A	5.00	4.58	0.9854891	0.9022516	0.05	-8.4	30
1,1-Dichloroethylene	A	5.00	4.37	1.174116	1.026301	0.05	-12.6	30
cis-1,2-Dichloroethylene	A	5.00	4.90	1.019706	0.9992065	0.05	-2.0	30
trans-1,2-Dichloroethylene	A	5.00	4.64	1.106768	1.027787	0.05	-7.1	30
1,2-Dichloropropane	A	5.00	4.72	0.3192016	0.3010401	0.05	-5.7	30
cis-1,3-Dichloropropene	A	5.00	6.07	0.3761294	0.4565967	0.05	21.4	30
trans-1,3-Dichloropropene	A	5.00	6.70	0.2862563	0.383597	0.05	34.0	30 *
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 1	A	5.00	4.32	1.974904	1.706742	0.05	-13.6	30
1,4-Dioxane	A	5.00	5.51	0.1649668	0.1817304	0.05	10.2	30
Ethanol	A	5.00	4.38	0.1628315	0.1424804	0.05	-12.5	30
Ethyl Acetate	A	5.00	6.65	0.1864448	0.2481301	0.05	33.1	30 *
Ethylbenzene	A	5.00	5.69	1.212353	1.379436	0.05	13.8	30
4-Ethyltoluene	A	5.00	5.46	1.334153	1.456443	0.05	9.2	30
Heptane	A	5.00	5.36	0.2244505	0.2407732	0.05	7.3	30
Hexachlorobutadiene	A	5.00	4.81	0.4357014	0.4191279	0.05	-3.8	30
Hexane	A	5.00	5.28	0.6658805	0.703106	0.05	5.6	30

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CONTINUING CALIBRATION CHECK

EPA TO-15

S003007-CCV1

COMPOUND	TYPE	CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT		
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
2-Hexanone (MBK)	A	5.00	4.83	0.64304	0.620802	0.05	-3.5	30	
Isopropanol	A	5.00	4.62	0.7879281	0.7279992	0.05	-7.6	30	
Methyl tert-Butyl Ether (MTBE)	A	5.00	6.21	1.50069	1.863369	0.05	24.2	30	
Methylene Chloride	A	5.00	4.31	0.8814779	0.7593427	0.05	-13.9	30	
4-Methyl-2-pentanone (MIBK)	A	5.00	5.07	0.5559324	0.5633473	0.05	1.3	30	
Naphthalene	A	5.00	5.45	1.193352	1.299964	0.05	8.9	30	
Propene	A	5.00	4.46	0.5599887	0.4993261	0.05	-10.8	30	
Styrene	A	5.00	5.55	0.7322695	0.8130978	0.05	11.0	30	
1,1,2,2-Tetrachloroethane	A	5.00	4.65	0.9535406	0.8866731	0.05	-7.0	30	
Tetrachloroethylene	A	5.00	5.38	0.4117898	0.4433636	0.05	7.7	30	
Tetrahydrofuran	A	5.00	6.68	0.2714584	0.3624706	0.05	33.5	30	*
Toluene	A	5.00	5.53	0.9603131	1.061327	0.05	10.5	30	
1,2,4-Trichlorobenzene	A	5.00	5.38	0.4923621	0.5301799	0.05	7.7	30	
1,1,1-Trichloroethane	A	5.00	4.41	0.5013922	0.4423817	0.05	-11.8	30	
1,1,2-Trichloroethane	A	5.00	5.41	0.3497592	0.3781859	0.05	8.1	30	
Trichloroethylene	A	5.00	4.79	0.3574694	0.3423626	0.05	-4.2	30	
Trichlorofluoromethane (Freon 11)	A	5.00	3.86	1.788899	1.382663	0.05	-22.7	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113	A	5.00	4.71	1.402457	1.321399	0.05	-5.8	30	
1,2,4-Trimethylbenzene	A	5.00	5.34	1.11855	1.195021	0.05	6.8	30	
1,3,5-Trimethylbenzene	A	5.00	5.21	1.146416	1.195409	0.05	4.3	30	
Vinyl Acetate	A	5.00	6.24	1.646634	2.055648	0.05	24.8	30	
Vinyl Chloride	A	5.00	3.94	0.7482336	0.5892844	0.05	-21.2	30	
m&p-Xylene	A	10.0	11.2	0.9999817	1.115087	0.05	11.5	30	
o-Xylene	A	5.00	5.53	1.001417	1.107582	0.05	10.6	30	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

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

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA TO-15 in Air	
Acetone	AIHA
Benzene	AIHA,FL,NJ,NY
Benzyl chloride	AIHA,FL,NJ,NY
Bromodichloromethane	AIHA,NJ
Bromoform	AIHA,NJ
Bromomethane	AIHA,FL,NJ,NY
1,3-Butadiene	AIHA,NJ
2-Butanone (MEK)	AIHA,FL,NJ,NY
Carbon Disulfide	AIHA,NJ
Carbon Tetrachloride	AIHA,FL,NJ,NY
Chlorobenzene	AIHA,FL,NJ,NY
Chloroethane	AIHA,FL,NJ,NY
Chloroform	AIHA,FL,NJ,NY
Chloromethane	AIHA,FL,NJ,NY
Cyclohexane	AIHA,NJ
Dibromochloromethane	AIHA,NY
1,2-Dibromoethane (EDB)	AIHA,NJ,NY
1,2-Dichlorobenzene	AIHA,FL,NJ,NY
1,3-Dichlorobenzene	AIHA,NJ,NY
1,4-Dichlorobenzene	AIHA,FL,NJ,NY
Dichlorodifluoromethane (Freon 12)	AIHA,NY
1,1-Dichloroethane	AIHA,FL,NJ,NY
1,2-Dichloroethane	AIHA,FL,NJ,NY
1,1-Dichloroethylene	AIHA,FL,NJ,NY
cis-1,2-Dichloroethylene	AIHA,FL,NY
trans-1,2-Dichloroethylene	AIHA,NJ,NY
1,2-Dichloropropane	AIHA,FL,NJ,NY
cis-1,3-Dichloropropene	AIHA,FL,NJ,NY
trans-1,3-Dichloropropene	AIHA,NY
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	AIHA,NJ
1,4-Dioxane	AIHA,NJ
Ethanol	AIHA
Ethyl Acetate	AIHA
Ethylbenzene	AIHA,FL,NJ,NY
4-Ethyltoluene	AIHA,NJ
Heptane	AIHA,NJ,NY
Hexachlorobutadiene	AIHA,NJ,NY
Hexane	AIHA,FL,NJ,NY
2-Hexanone (MBK)	AIHA
Isopropanol	AIHA,NY
Methyl tert-Butyl Ether (MTBE)	AIHA,FL,NJ,NY
Methylene Chloride	AIHA,FL,NJ,NY
4-Methyl-2-pentanone (MIBK)	AIHA,FL,NJ,NY
Naphthalene	NY
Propene	AIHA
Styrene	AIHA,FL,NJ,NY
1,1,2,2-Tetrachloroethane	AIHA,FL,NJ,NY

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

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA TO-15 in Air	
Tetrachloroethylene	AIHA,FL,NJ,NY
Tetrahydrofuran	AIHA
Toluene	AIHA,FL,NJ,NY
1,2,4-Trichlorobenzene	AIHA,NJ,NY
1,1,1-Trichloroethane	AIHA,FL,NJ,NY
1,1,2-Trichloroethane	AIHA,FL,NJ,NY
Trichloroethylene	AIHA,FL,NJ,NY
Trichlorofluoromethane (Freon 11)	AIHA,NY
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	AIHA,NJ,NY
1,2,4-Trimethylbenzene	AIHA,NJ,NY
1,3,5-Trimethylbenzene	AIHA,NJ,NY
Vinyl Acetate	AIHA,FL,NJ,NY
Vinyl Chloride	AIHA,FL,NJ,NY
m&p-Xylene	AIHA,FL,NJ,NY
o-Xylene	AIHA,FL,NJ,NY

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

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

con-test® ANALYTICAL LABORATORY
Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com
www.contestlabs.com
39 SPRUCE ST
EAST LONGMEADOW, MA 01028

AIR SAMPLE CHAIN OF CUSTODY RECORD

12J0233

Page 1 of 2

Company Name: ARCADIS
Address: 855 Rt. 146 Ste. 210
Clifton Park, NY 12065
Attention: Stefan Bagnato
Project Location: Cohoes, NY
Sampled By: BRQ + AAW

Telephone: (518 250 7300
Project # 00266396
Client PO # 00266396

DATA DELIVERY (check one):
☐FAX ☒EMAIL ☐WEBSITE CLIENT
Fax #: 5182507701
Email: stefan.bagnato@arcadis-us.com
Format: ☒EXCEL ☒PDF ☐ GIS KEY ☐ OTHER___

Proposal Provided? (For Billing purposes)
☐ yes _____ proposal date

Field ID	Sample Description	Media	Lab #	Date Sampled Start Date Time	Date Sampled Stop Date Time	ONLY USE WHEN USING PUMPS Total Minutes Sampled	Flow Rate M^3/Min. or L / Min.	Volume Liters or M^3	Matrix Code*	ANALYSIS REQUESTED TO-15 VOCs	" Hg Initial pressure	" Hg Final pressure	" Hg Lab Receipt Pressure	Summa Canister ID	Flow Controller ID
SV-6		S	-01	10/4/12 8:48	10/4/12 9:42				SG	X	-29	-3	-3.7	1265	4221
SV-7		S	-02	10/4/12 9:03	10/4/12 10:45				SG	X	-29.5	-2	-8.2	1344	4222
DUP		S	-03	—	—				SG	X	-27	-7.5	-4.6	9330	4223
SV-2		S	-04	10/4/12 9:26	10/4/12 1430				SG	X	-28	-10	-11.5	1722	4111
SV-1		S	-05	10/4/12 9:42	1014 10:35				SG	X	-30	-3	-2.8	1053	4217
SV-8		S	-06	10/4/12 11:05	10/4/12 11:55				SG	X	-28	-3.5	-4	1203	4219
SV-4		S	-07	10/4/12 11:15	10/4/12 1430				SG	X	-30	-10	-10.5	1146	4218
SV-3		S	-08	10/4/12 11:28	10/4/12 1430				SG	X	-28	-25	-26.8	1036	4216

Please fill out completely, sign, date and retain the yellow copy for your records.
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 minimum of 14 days after sampling date prior to cleaning.

Laboratory Comments:

CLIENT COMMENTS:

Relinquished by: (signature)	Date/Time:
	10/4/12 1500
Received by: (signature)	Date/Time:
	10/5/12 9:57
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Turnaround **
☐ 7-Day
☐ 10-Day
☐ Other ___
RUSH *
☐ *24-Hr ☐ *48-Hr
☐ *72-Hr ☐ *4-Day
*Approval Required

Special Requirements
Regulations:_____
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 Certifi

con-test® ANALYTICAL LABORATORY
Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com
www.contestlabs.com

AIR SAMPLE CHAIN OF CUSTODY RECORD

12J0233

39 SPRUCE ST
EAST LONGMEADOW, MA 01028

Company Name: ARCADIS
Address: 855 Rt. 146 Ste 210
Clifton Park, NY 12065
Attention: Stefan Bagnato
Project Location: Cohoes, NY
Sampled By: BRQ + AAW

Telephone: (518) 250 7300
Project # 00266396
Client PO # 00266396

DATA DELIVERY (check one):
❒FAX ☒EMAIL ❒WEBSITE CLIENT
Fax # : 518 250 7301
Email: stefan.bagnato@arcadis-us.com
Format: ❒ EXCEL ❒ PDF ❒ GIS KEY ❒ OTHER___

Proposal Provided? (For Billing purposes)
❒ yes _____ proposal date

Field ID	Sample Description	Media	Lab #	Date Sampled Start Date Time	Date Sampled Stop Date Time	ONLY USE WHEN USING PUMPS Total Minutes Sampled	Flow Rate M^3/Min. or L / Min.	Volume Liters or M^3	Matrix Code*	ANALYSIS REQUESTED	" Hg Initial pressure	" Hg Final Pressure	" Hg Lab Receipt Pressure	Summa Canister ID	Flow Controller ID
SV-10		S	-09	10/4/12 11:32	10/4/12 12:26				SG		-30	-3.5	-4.8	1025	4224
Ambient Air 2		S	-10	10/4/12 12:04	10/4/12 12:55				SG		-29	-4	-4	1666	4227
SV-9		S	-11	10/4/12 12:02	10/4/12 12:55				SG		-30	-4	-4	1667	4225

Please fill out completely, sign, d and retain the yello copy for your recor

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 minimum of 14 days after sampling date prior to cleaning.

Laboratory Comments:

CLIENT COMMENTS:

Relinquished by: (signature)	Date/Time:
[signature]	10/4/12 1500
Received by: (signature)	Date/Time:
Kerry Miller	10/5/12 9:57
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Turnaround **
❒ 7-Day
❒ 10-Day
❒ Other ___
RUSH *
❒ *24-Hr ❒ *48-Hr
❒ *72-Hr ❒ *4-Day
*Approval Required

Special Requirements
Regulations:_____
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

Print page | Close

FedEx

Detailed Results

This shipment is part of a multiple-piece shipment

Master tracking no. 801810727886

Total pieces 4
Total shipment weight 94.0 lbs/42.6 kg

View all associated shipments

Tracking no.: 801810727886 Select time format: **12H**

Delivered

Delivered
Signed for by: W.DENATI

Shipment Dates

Ship date Oct 4, 2012
Delivery date Oct 5, 2012 9:57 AM

Destination

Signature Proof of Delivery

Shipment Options

Hold at FedEx Location
Hold at FedEx Location service is not available for this shipment.

Shipment Facts

Service type	Priority Overnight	Delivered to	Receptionist/Front Desk
Weight	31.0 lbs/14.1 kg		
Total Shipment Weight	94.0 lbs/42.6 kg		

Shipment Travel History

Select time zone: Local Scan Time

All shipment travel activity is displayed in local time for the location

Date/Time	Activity	Location	Details
Oct 5, 2012 9:57 AM	**Delivered**		
Oct 5, 2012 8:08 AM	On FedEx vehicle for delivery	WINDSOR LOCKS, CT	
Oct 5, 2012 8:03 AM	At local FedEx facility	WINDSOR LOCKS, CT	
Oct 5, 2012 3:52 AM	Departed FedEx location	NEWARK, NJ	
Oct 5, 2012 12:05 AM	Arrived at FedEx location	NEWARK, NJ	
Oct 4, 2012 9:00 PM	Left FedEx origin facility	MENANDS, NY	
Oct 4, 2012 3:07 PM	Picked up	MENANDS, NY	



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AIR Only Receipt Checklist

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

CLIENT NAME: Arcadis RECEIVED BY: KKM DATE: 10/5/12

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

2) Does the chain agree with the samples? Yes No
If not, explain: * rec'd summa 1223 not on COC but says DO NOT ANALYZE

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

4) Are there any samples "On Hold"? Yes No Stored where:

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

6) Location where samples are stored: Air Lab

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

Containers received at Con-Test

	# of Containers	Types (Size, Duration)
Summa Cans	11	6C
Tedlar Bags		
Tubes		
Regulators	11	1 hr.
Restrictors		
Tubing		
Other		

Unused Summas:
1482

Unused Regulators:
4220 4226

1) Was all media (used & unused checked into the WASP?

2) Were all returned summa cans, Restrictors, & Regulators documented as returned in the Air Lab Inbound/Outbound Excel Spreadsheet?

Laboratory Comments:

1265	1722	1146	1666	4221	4111	4218	4227
1344	1053	1036	1667	4222	4217	4216	4225
1330	1203	1625	1223	4223	4219	4224	

Air Sampling Media Certificate of Analysis

Date Analyzed: 9/19/2012 **Batch #:** 12CC00336

Certification Type: *Batch Certified* ☑ *Individual Certified* ☐

Media Type: *Summa Canister* ☑ *Flow Controllers* ☐

Media IDs: BC1265

Note:Two ID's grouped together, for example BC2136/BC3145, represents matched pairs of certified summa canisters and flow controllers.

Units: PPBv

<0.80	Propene	<0.04	Vinyl acetate	<0.02	Dibromchloromethane
<0.02	Dichlorodifluoromethane	<0.80	Hexane	<0.02	1,2-Dibromomethane
<0.02	Chloromethane	<0.02	Ethyl acetate	<0.02	Tetrachloroethylene
<0.02	Freon 114	<0.02	Chloroform	<0.02	Chlorobenzene
<0.02	Vinyl chloride	<0.02	Tetrahydrofuran	<0.02	Ethylbenzene
<0.02	1.3-Butadiene	<0.02	1,2-Dichloroethane	<0.04	m,p-Xylenes
<0.02	Bromomethane	<0.02	1,1,1-Trichloroethane	<0.02	Bromoform
<0.02	Chloroethane	<0.02	Benzene	<0.02	Styrene
<0.08	Acrolein	<0.02	Carbon Tetrachloride	<0.02	o-Xylene
<0.80	Acetone	<0.02	Cyclohexane	<0.02	1,1,2,2-Tetrachloroethane
<0.02	Trichlorofluoromethane	<0.02	1,2-Dichloropropane	<0.02	4-Ethyltoluene
<0.80	Ethanol	<0.02	Bromodichloromethane	<0.02	1,3,5-Trimethylbenzene
<0.02	1,1-Dichloroethylene	<0.02	Trichloroethylene	<0.02	1,2,4-Trimethylbenzene
<0.20	Methylene chloride	<0.02	1,4-Dioxane	<0.02	1,3-Dichlorobenzene
<0.02	Freon 113	<0.02	Methylmethacrylate	<0.02	Benzyl chloride
<0.02	Carbon disulfide	<0.02	Heptane	<0.02	1,4-Dichlorobenzene
<0.02	t-1,2-Dichloroethylene	<0.02	MIBK	<0.02	1,2-Dichlorobenzene
<0.02	1,1-Dichloroethane	<0.02	c-1,3-Dichloropropylene	<0.04	1,2,4-Trichlorobenzene
<0.02	MTBE	<0.02	t-1,3-Dichloropropylene	<0.02	Naphthalene
<0.80	IPA	<0.02	1,1,2-Trichloroethylene	<0.02	Hexachlorobutadiene
<0.80	2-Butanone (MEK)	<0.02	Toluene		
<0.02	c-1,2-Dichloroethylene	<0.02	2-Hexanone (MBK)		

Special Notes:

Analyst Initials/Date: WSD 10/12/12

Air Sampling Media Certificate of Analysis

Date Analyzed: 9/21/2012 **Batch #:** 12CC00338

Certification Type: *Batch Certified* ☑ *Individual Certified* ☐

Media Type: *Summa Canister* ☑ *Flow Controllers* ☐

Media IDs:	BC1344	BC1330	BC1666

Note:Two ID's grouped together, for example BC2136/BC3145, represents matched pairs of certified summa canisters and flow controllers.

Units: PPBv

<0.80	Propene	<0.04	Vinyl acetate	<0.02	Dibromchloromethane
<0.02	Dichlorodifluoromethane	<0.80	Hexane	<0.02	1,2-Dibromomethane
<0.02	Chloromethane	<0.02	Ethyl acetate	<0.02	Tetrachloroethylene
<0.02	Freon 114	<0.02	Chloroform	<0.02	Chlorobenzene
<0.02	Vinyl chloride	<0.02	Tetrahydrofuran	<0.02	Ethylbenzene
<0.02	1.3-Butadiene	<0.02	1,2-Dichloroethane	<0.04	m,p-Xylenes
<0.02	Bromomethane	<0.02	1,1,1-Trichloroethane	<0.02	Bromoform
<0.02	Chloroethane	<0.02	Benzene	<0.02	Styrene
<0.08	Acrolein	<0.02	Carbon Tetrachloride	<0.02	o-Xylene
<0.80	Acetone	<0.02	Cyclohexane	<0.02	1,1,2,2-Tetrachloroethane
<0.02	Trichlorofluoromethane	<0.02	1,2-Dichloropropane	<0.02	4-Ethyltoluene
<0.80	Ethanol	<0.02	Bromodichloromethane	<0.02	1,3,5-Trimethylbenzene
<0.02	1,1-Dichloroethylene	<0.02	Trichloroethylene	<0.02	1,2,4-Trimethylbenzene
<0.20	Methylene chloride	<0.02	1,4-Dioxane	<0.02	1,3-Dichlorobenzene
<0.02	Freon 113	<0.02	Methylmethacrylate	<0.02	Benzyl chloride
<0.02	Carbon disulfide	<0.02	Heptane	<0.02	1,4-Dichlorobenzene
<0.02	t-1,2-Dichloroethylene	<0.02	MIBK	<0.02	1,2-Dichlorobenzene
<0.02	1,1-Dichloroethane	<0.02	c-1,3-Dichloropropylene	<0.04	1,2,4-Trichlorobenzene
<0.02	MTBE	<0.02	t-1,3-Dichloropropylene	<0.02	Naphthalene
<0.80	IPA	<0.02	1,1,2-Trichloroethylene	<0.02	Hexachlorobutadiene
<0.80	2-Butanone (MEK)	<0.02	Toluene		
<0.02	c-1,2-Dichloroethylene	<0.02	2-Hexanone (MBK)		

Special Notes:

Analyst Initials/Date: WSD 10/12/12

Air Sampling Media Certificate of Analysis

Date Analyzed: 9/19/2012 **Batch #:** 12CC00335

Certification Type: *Batch Certified* ☑ *Individual Certified* ☐

Media Type: *Summa Canister* ☑ *Flow Controllers* ☐

Media IDs: BC1722 BC1053

Note:Two ID's grouped together, for example BC2136/BC3145, represents matched pairs of certified summa canisters and flow controllers.

Units: PPBv

<0.80	Propene	<0.04	Vinyl acetate	<0.02	Dibromchloromethane
<0.02	Dichlorodifluoromethane	<0.80	Hexane	<0.02	1,2-Dibromomethane
<0.02	Chloromethane	<0.02	Ethyl acetate	<0.02	Tetrachloroethylene
<0.02	Freon 114	<0.02	Chloroform	<0.02	Chlorobenzene
<0.02	Vinyl chloride	<0.02	Tetrahydrofuran	<0.02	Ethylbenzene
<0.02	1.3-Butadiene	<0.02	1,2-Dichloroethane	<0.04	m,p-Xylenes
<0.02	Bromomethane	<0.02	1,1,1-Trichloroethane	<0.02	Bromoform
<0.02	Chloroethane	<0.02	Benzene	<0.02	Styrene
<0.08	Acrolein	<0.02	Carbon Tetrachloride	<0.02	o-Xylene
<0.80	Acetone	<0.02	Cyclohexane	<0.02	1,1,2,2-Tetrachloroethane
<0.02	Trichlorofluoromethane	<0.02	1,2-Dichloropropane	<0.02	4-Ethyltoluene
<0.80	Ethanol	<0.02	Bromodichloromethane	<0.02	1,3,5-Trimethylbenzene
<0.02	1,1-Dichloroethylene	<0.02	Trichloroethylene	<0.02	1,2,4-Trimethylbenzene
<0.20	Methylene chloride	<0.02	1,4-Dioxane	<0.02	1,3-Dichlorobenzene
<0.02	Freon 113	<0.02	Methylmethacrylate	<0.02	Benzyl chloride
<0.02	Carbon disulfide	<0.02	Heptane	<0.02	1,4-Dichlorobenzene
<0.02	t-1,2-Dichloroethylene	<0.02	MIBK	<0.02	1,2-Dichlorobenzene
<0.02	1,1-Dichloroethane	<0.02	c-1,3-Dichloropropylene	<0.04	1,2,4-Trichlorobenzene
<0.02	MTBE	<0.02	t-1,3-Dichloropropylene	<0.02	Naphthalene
<0.80	IPA	<0.02	1,1,2-Trichloroethylene	<0.02	Hexachlorobutadiene
<0.80	2-Butanone (MEK)	<0.02	Toluene		
<0.02	c-1,2-Dichloroethylene	<0.02	2-Hexanone (MBK)		

Special Notes:

Analyst Initials/Date: WSD 10/12/12

Air Sampling Media Certificate of Analysis

Date Analyzed: 8/23/2012 **Batch #:** 12CC00294

Certification Type: *Batch Certified* ☑ *Individual Certified* ☐

Media Type: *Summa Canister* ☑ *Flow Controllers* ☐

Media IDs: BC1203

Note:Two ID's grouped together, for example BC2136/BC3145, represents matched pairs of certified summa canisters and flow controllers.

Units: PPBv

<0.80	Propene	<0.04	Vinyl acetate	<0.02	Dibromchloromethane
<0.02	Dichlorodifluoromethane	<0.80	Hexane	<0.02	1,2-Dibromomethane
<0.02	Chloromethane	<0.02	Ethyl acetate	<0.02	Tetrachloroethylene
<0.02	Freon 114	<0.02	Chloroform	<0.02	Chlorobenzene
<0.02	Vinyl chloride	<0.02	Tetrahydrofuran	<0.02	Ethylbenzene
<0.02	1.3-Butadiene	<0.02	1,2-Dichloroethane	<0.04	m,p-Xylenes
<0.02	Bromomethane	<0.02	1,1,1-Trichloroethane	<0.02	Bromoform
<0.02	Chloroethane	<0.02	Benzene	<0.02	Styrene
<0.08	Acrolein	<0.02	Carbon Tetrachloride	<0.02	o-Xylene
<0.80	Acetone	<0.02	Cyclohexane	<0.02	1,1,2,2-Tetrachloroethane
<0.02	Trichlorofluoromethane	<0.02	1,2-Dichloropropane	<0.02	4-Ethyltoluene
<0.80	Ethanol	<0.02	Bromodichloromethane	<0.02	1,3,5-Trimethylbenzene
<0.02	1,1-Dichloroethylene	<0.02	Trichloroethylene	<0.02	1,2,4-Trimethylbenzene
0.22	Methylene chloride	<0.02	1,4-Dioxane	<0.02	1,3-Dichlorobenzene
<0.02	Freon 113	<0.02	Methylmethacrylate	<0.02	Benzyl chloride
<0.02	Carbon disulfide	<0.02	Heptane	<0.02	1,4-Dichlorobenzene
<0.02	t-1,2-Dichloroethylene	<0.02	MIBK	<0.02	1,2-Dichlorobenzene
<0.02	1,1-Dichloroethane	<0.02	c-1,3-Dichloropropylene	<0.04	1,2,4-Trichlorobenzene
<0.02	MTBE	<0.02	t-1,3-Dichloropropylene	<0.02	Naphthalene
<0.80	IPA	<0.02	1,1,2-Trichloroethylene	<0.02	Hexachlorobutadiene
<0.80	2-Butanone (MEK)	<0.02	Toluene		
<0.02	c-1,2-Dichloroethylene	<0.02	2-Hexanone (MBK)		

Special Notes:

Analyst Initials/Date: WSD 10/12/12

Air Sampling Media Certificate of Analysis

Date Analyzed: 9/21/2012 **Batch #:** 12CC00337

Certification Type: *Batch Certified* ☑ *Individual Certified* ☐

Media Type: *Summa Canister* ☑ *Flow Controllers* ☐

Media IDs: BC1625

Note:Two ID's grouped together, for example BC2136/BC3145, represents matched pairs of certified summa canisters and flow controllers.

Units: PPBv

<0.80	Propene	<0.04	Vinyl acetate	<0.02	Dibromchloromethane
<0.02	Dichlorodifluoromethane	<0.80	Hexane	<0.02	1,2-Dibromomethane
<0.02	Chloromethane	<0.02	Ethyl acetate	<0.02	Tetrachloroethylene
<0.02	Freon 114	<0.02	Chloroform	<0.02	Chlorobenzene
<0.02	Vinyl chloride	<0.02	Tetrahydrofuran	<0.02	Ethylbenzene
<0.02	1.3-Butadiene	<0.02	1,2-Dichloroethane	<0.04	m,p-Xylenes
<0.02	Bromomethane	<0.02	1,1,1-Trichloroethane	<0.02	Bromoform
<0.02	Chloroethane	<0.02	Benzene	<0.02	Styrene
<0.08	Acrolein	<0.02	Carbon Tetrachloride	<0.02	o-Xylene
<0.80	Acetone	<0.02	Cyclohexane	<0.02	1,1,2,2-Tetrachloroethane
<0.02	Trichlorofluoromethane	<0.02	1,2-Dichloropropane	<0.02	4-Ethyltoluene
<0.80	Ethanol	<0.02	Bromodichloromethane	<0.02	1,3,5-Trimethylbenzene
<0.02	1,1-Dichloroethylene	<0.02	Trichloroethylene	<0.02	1,2,4-Trimethylbenzene
<0.02	Methylene chloride	<0.02	1,4-Dioxane	<0.02	1,3-Dichlorobenzene
<0.02	Freon 113	<0.02	Methylmethacrylate	<0.02	Benzyl chloride
<0.02	Carbon disulfide	<0.02	Heptane	<0.02	1,4-Dichlorobenzene
<0.02	t-1,2-Dichloroethylene	<0.02	MIBK	<0.02	1,2-Dichlorobenzene
<0.02	1,1-Dichloroethane	<0.02	c-1,3-Dichloropropylene	<0.04	1,2,4-Trichlorobenzene
<0.02	MTBE	<0.02	t-1,3-Dichloropropylene	<0.02	Naphthalene
<0.80	IPA	<0.02	1,1,2-Trichloroethylene	<0.02	Hexachlorobutadiene
<0.80	2-Butanone (MEK)	<0.02	Toluene		
<0.02	c-1,2-Dichloroethylene	<0.02	2-Hexanone (MBK)		

Special Notes:

Analyst Initials/Date: WSD 10/12/12

Air Sampling Media Certificate of Analysis

Date Analyzed: 9/11/2012 **Batch #:** 12CC00320

Certification Type: *Batch Certified* ☑ *Individual Certified* ☐

Media Type: *Summa Canister* ☑ *Flow Controllers* ☐

Media IDs: BC1667

Note:Two ID's grouped together, for example BC2136/BC3145, represents matched pairs of certified summa canisters and flow controllers.

Units: PPBv

<0.80	Propene	<0.04	Vinyl acetate	<0.02	Dibromchloromethane
<0.02	Dichlorodifluoromethane	<0.80	Hexane	<0.02	1,2-Dibromomethane
<0.02	Chloromethane	<0.02	Ethyl acetate	<0.02	Tetrachloroethylene
<0.02	Freon 114	<0.02	Chloroform	<0.02	Chlorobenzene
<0.02	Vinyl chloride	<0.02	Tetrahydrofuran	<0.02	Ethylbenzene
<0.02	1.3-Butadiene	<0.02	1,2-Dichloroethane	<0.04	m,p-Xylenes
<0.02	Bromomethane	<0.02	1,1,1-Trichloroethane	<0.02	Bromoform
<0.02	Chloroethane	<0.02	Benzene	<0.02	Styrene
<0.08	Acrolein	<0.02	Carbon Tetrachloride	<0.02	o-Xylene
<0.80	Acetone	<0.02	Cyclohexane	<0.02	1,1,2,2-Tetrachloroethane
<0.02	Trichlorofluoromethane	<0.02	1,2-Dichloropropane	<0.02	4-Ethyltoluene
<0.80	Ethanol	<0.02	Bromodichloromethane	<0.02	1,3,5-Trimethylbenzene
<0.02	1,1-Dichloroethylene	<0.02	Trichloroethylene	<0.02	1,2,4-Trimethylbenzene
<0.02	Methylene chloride	<0.02	1,4-Dioxane	<0.02	1,3-Dichlorobenzene
<0.02	Freon 113	<0.02	Methylmethacrylate	<0.02	Benzyl chloride
<0.02	Carbon disulfide	<0.02	Heptane	<0.02	1,4-Dichlorobenzene
<0.02	t-1,2-Dichloroethylene	<0.02	MIBK	<0.02	1,2-Dichlorobenzene
<0.02	1,1-Dichloroethane	<0.02	c-1,3-Dichloropropylene	<0.04	1,2,4-Trichlorobenzene
<0.02	MTBE	<0.02	t-1,3-Dichloropropylene	<0.02	Naphthalene
<0.80	IPA	<0.02	1,1,2-Trichloroethylene	<0.02	Hexachlorobutadiene
<0.80	2-Butanone (MEK)	<0.02	Toluene		
<0.02	c-1,2-Dichloroethylene	<0.02	2-Hexanone (MBK)		

Special Notes:

Analyst Initials/Date: WSD 10/12/12

con-test® ANALYTICAL LABORATORY
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January 22, 2013

Stefan Bagnato
Arcadis US, Inc. - Clifton Park-NY
855 Route 146, Suite 210
Clifton Park, NY 12065

Project Location: Cohoes, NY
Client Job Number:
Project Number: 00266396
Laboratory Work Order Number: 13A0288

Enclosed are results of analyses for samples received by the laboratory on January 11, 2013. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Paula E. Blakeborough
Project Manager

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

Arcadis US, Inc. - Clifton Park-NY
855 Route 146, Suite 210
Clifton Park, NY 12065
ATTN: Stefan Bagnato

REPORT DATE: 1/22/2013

PURCHASE ORDER NUMBER: 00266396

PROJECT NUMBER: 00266396

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 13A0288

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

PROJECT LOCATION: Cohoes, NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
8W-SS-1	13A0288-01	Soil Gas		EPA TO-15	
8W-DUP	13A0288-02	Soil Gas		EPA TO-15	
8W-BA-1	13A0288-03	Indoor air		EPA TO-15	
AA-010913	13A0288-04	Ambient Air		EPA TO-15	
SV-15	13A0288-05	Soil Gas		EPA TO-15	
SV-13	13A0288-06	Soil Gas		EPA TO-15	
SV-12	13A0288-07	Soil Gas		EPA TO-15	

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CASE NARRATIVE SUMMARY

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

EPA TO-15

Qualifications:

Laboratory fortified blank /laboratory control sample recovery outside of control limits. Data validation is not affected since all results are "not detected" for all samples in this batch for this compound and bias is on the high side.

Analyte & Samples(s) Qualified:

Chloroethane, Isopropanol

B066164-BS1, B066165-BS1

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

Analyte & Samples(s) Qualified:

Naphthalene

13A0288-01[8W-SS-1], 13A0288-02[8W-DUP], 13A0288-03[8W-BA-1], 13A0288-04[AA-010913], 13A0288-05[SV-15], 13A0288-06[SV-13], 13A0288-07[SV-12], B066164-BLK1, B066164-BS1, B066165-BLK1, B066165-BS1, S003698-CCV1, S003699-CCV1

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

Analyte & Samples(s) Qualified:

Acetone, Isopropanol

13A0288-01[8W-SS-1], 13A0288-02[8W-DUP], 13A0288-05[SV-15], 13A0288-06[SV-13], 13A0288-07[SV-12], B066165-BS1, S003699-CCV1, B066164-BS1, S003698-CCV1

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Michael A. Erickson
Laboratory Director

con-test® ANALYTICAL LABORATORY
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ANALYTICAL RESULTS

Project Location: Cohoes, NY
Date Received: 1/11/2013
Field Sample #: 8W-SS-1
Sample ID: 13A0288-01
Sample Matrix: Soil Gas
Sampled: 1/10/2013 10:55

Sample Description/Location:
Sub Description/Location:
Canister ID: 1265
Canister Size: 6 liter
Flow Controller ID: 3175
Sample Type: 24 hr

Work Order: 13A0288
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): -0
Receipt Vacuum(in Hg): -0.3
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

	ppbv			ug/m3			Date/Time	
Analyte	**Results**	**RL**	**Flag**	**Results**	**RL**	**Dilution**	**Analyzed**	**Analyst**
Acetone	11	4.0	V-06	25	9.5	2	1/14/13 18:46	TPH
Benzene	0.56	0.10		1.8	0.32	2	1/14/13 18:46	TPH
Benzyl chloride	ND	0.10		ND	0.52	2	1/14/13 18:46	TPH
Bromodichloromethane	ND	0.10		ND	0.67	2	1/14/13 18:46	TPH
Bromoform	ND	0.10		ND	1.0	2	1/14/13 18:46	TPH
Bromomethane	ND	0.10		ND	0.39	2	1/14/13 18:46	TPH
1,3-Butadiene	ND	0.10		ND	0.22	2	1/14/13 18:46	TPH
2-Butanone (MEK)	ND	4.0		ND	12	2	1/14/13 18:46	TPH
Carbon Disulfide	ND	1.0		ND	3.1	2	1/14/13 18:46	TPH
Carbon Tetrachloride	ND	0.10		ND	0.63	2	1/14/13 18:46	TPH
Chlorobenzene	ND	0.10		ND	0.46	2	1/14/13 18:46	TPH
Chloroethane	ND	0.10		ND	0.26	2	1/14/13 18:46	TPH
Chloroform	0.22	0.10		1.1	0.49	2	1/14/13 18:46	TPH
Chloromethane	1.0	0.10		2.2	0.21	2	1/14/13 18:46	TPH
Cyclohexane	0.13	0.10		0.45	0.34	2	1/14/13 18:46	TPH
Dibromochloromethane	ND	0.10		ND	0.85	2	1/14/13 18:46	TPH
1,2-Dibromoethane (EDB)	ND	0.10		ND	0.77	2	1/14/13 18:46	TPH
1,2-Dichlorobenzene	ND	0.10		ND	0.60	2	1/14/13 18:46	TPH
1,3-Dichlorobenzene	ND	0.10		ND	0.60	2	1/14/13 18:46	TPH
1,4-Dichlorobenzene	ND	0.10		ND	0.60	2	1/14/13 18:46	TPH
Dichlorodifluoromethane (Freon 12)	0.55	0.10		2.7	0.49	2	1/14/13 18:46	TPH
1,1-Dichloroethane	ND	0.10		ND	0.40	2	1/14/13 18:46	TPH
1,2-Dichloroethane	ND	0.10		ND	0.40	2	1/14/13 18:46	TPH
1,1-Dichloroethylene	ND	0.10		ND	0.40	2	1/14/13 18:46	TPH
cis-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	1/14/13 18:46	TPH
trans-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	1/14/13 18:46	TPH
1,2-Dichloropropane	ND	0.10		ND	0.46	2	1/14/13 18:46	TPH
cis-1,3-Dichloropropene	ND	0.10		ND	0.45	2	1/14/13 18:46	TPH
trans-1,3-Dichloropropene	ND	0.10		ND	0.45	2	1/14/13 18:46	TPH
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10		ND	0.70	2	1/14/13 18:46	TPH
1,4-Dioxane	ND	0.10		ND	0.36	2	1/14/13 18:46	TPH
Ethanol	28	4.0		53	7.5	2	1/14/13 18:46	TPH
Ethyl Acetate	0.67	0.10		2.4	0.36	2	1/14/13 18:46	TPH
Ethylbenzene	0.21	0.10		0.93	0.43	2	1/14/13 18:46	TPH
4-Ethyltoluene	ND	0.10		ND	0.49	2	1/14/13 18:46	TPH
Heptane	0.19	0.10		0.80	0.41	2	1/14/13 18:46	TPH
Hexachlorobutadiene	ND	0.10		ND	1.1	2	1/14/13 18:46	TPH

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ANALYTICAL RESULTS

Project Location: Cohoes, NY
Date Received: 1/11/2013
Field Sample #: 8W-SS-1
Sample ID: 13A0288-01
Sample Matrix: Soil Gas
Sampled: 1/10/2013 10:55

Sample Description/Location:
Sub Description/Location:
Canister ID: 1265
Canister Size: 6 liter
Flow Controller ID: 3175
Sample Type: 24 hr

Work Order: 13A0288
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): -0
Receipt Vacuum(in Hg): -0.3
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

	ppbv			ug/m3			Date/Time	
Analyte	**Results**	**RL**	**Flag**	**Results**	**RL**	**Dilution**	**Analyzed**	**Analyst**
Hexane	ND	4.0		ND	14	2	1/14/13 18:46	TPH
2-Hexanone (MBK)	ND	0.10		ND	0.41	2	1/14/13 18:46	TPH
Isopropanol	ND	4.0		ND	9.8	2	1/14/13 18:46	TPH
Methyl tert-Butyl Ether (MTBE)	ND	0.10		ND	0.36	2	1/14/13 18:46	TPH
Methylene Chloride	ND	1.0		ND	3.5	2	1/14/13 18:46	TPH
4-Methyl-2-pentanone (MIBK)	ND	0.10		ND	0.41	2	1/14/13 18:46	TPH
Naphthalene	ND	0.10	V-05	ND	0.52	2	1/14/13 18:46	TPH
Propene	ND	4.0		ND	6.9	2	1/14/13 18:46	TPH
Styrene	ND	0.10		ND	0.43	2	1/14/13 18:46	TPH
1,1,2,2-Tetrachloroethane	ND	0.10		ND	0.69	2	1/14/13 18:46	TPH
Tetrachloroethylene	0.31	0.10		2.1	0.68	2	1/14/13 18:46	TPH
Tetrahydrofuran	ND	0.10		ND	0.29	2	1/14/13 18:46	TPH
Toluene	1.3	0.10		5.0	0.38	2	1/14/13 18:46	TPH
1,2,4-Trichlorobenzene	ND	0.10		ND	0.74	2	1/14/13 18:46	TPH
1,1,1-Trichloroethane	ND	0.10		ND	0.55	2	1/14/13 18:46	TPH
1,1,2-Trichloroethane	ND	0.10		ND	0.55	2	1/14/13 18:46	TPH
Trichloroethylene	ND	0.10		ND	0.54	2	1/14/13 18:46	TPH
Trichlorofluoromethane (Freon 11)	0.32	0.10		1.8	0.56	2	1/14/13 18:46	TPH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.10		ND	0.77	2	1/14/13 18:46	TPH
1,2,4-Trimethylbenzene	0.18	0.10		0.88	0.49	2	1/14/13 18:46	TPH
1,3,5-Trimethylbenzene	ND	0.10		ND	0.49	2	1/14/13 18:46	TPH
Vinyl Acetate	ND	0.20		ND	0.70	2	1/14/13 18:46	TPH
Vinyl Chloride	ND	0.10		ND	0.26	2	1/14/13 18:46	TPH
m&p-Xylene	0.67	0.20		2.9	0.87	2	1/14/13 18:46	TPH
o-Xylene	0.25	0.10		1.1	0.43	2	1/14/13 18:46	TPH

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	108	70-130	1/14/13 18:46

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ANALYTICAL RESULTS

Project Location: Cohoes, NY
Date Received: 1/11/2013
Field Sample #: 8W-DUP
Sample ID: 13A0288-02
Sample Matrix: Soil Gas
Sampled: 1/10/2013 09:30

Sample Description/Location:
Sub Description/Location:
Canister ID: 1296
Canister Size: 6 liter
Flow Controller ID: 3399
Sample Type: 24 hr

Work Order: 13A0288
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): -11
Receipt Vacuum(in Hg): -10
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

	ppbv			ug/m3			Date/Time	
Analyte	Results	RL	Flag	Results	RL	Dilution	Analyzed	Analyst
Acetone	9.6	4.0	V-06	23	9.5	2	1/14/13 19:25	TPH
Benzene	ND	0.10		ND	0.32	2	1/14/13 19:25	TPH
Benzyl chloride	ND	0.10		ND	0.52	2	1/14/13 19:25	TPH
Bromodichloromethane	ND	0.10		ND	0.67	2	1/14/13 19:25	TPH
Bromoform	ND	0.10		ND	1.0	2	1/14/13 19:25	TPH
Bromomethane	ND	0.10		ND	0.39	2	1/14/13 19:25	TPH
1,3-Butadiene	ND	0.10		ND	0.22	2	1/14/13 19:25	TPH
2-Butanone (MEK)	ND	4.0		ND	12	2	1/14/13 19:25	TPH
Carbon Disulfide	ND	1.0		ND	3.1	2	1/14/13 19:25	TPH
Carbon Tetrachloride	ND	0.10		ND	0.63	2	1/14/13 19:25	TPH
Chlorobenzene	ND	0.10		ND	0.46	2	1/14/13 19:25	TPH
Chloroethane	ND	0.10		ND	0.26	2	1/14/13 19:25	TPH
Chloroform	ND	0.10		ND	0.49	2	1/14/13 19:25	TPH
Chloromethane	ND	0.10		ND	0.21	2	1/14/13 19:25	TPH
Cyclohexane	ND	0.10		ND	0.34	2	1/14/13 19:25	TPH
Dibromochloromethane	ND	0.10		ND	0.85	2	1/14/13 19:25	TPH
1,2-Dibromoethane (EDB)	ND	0.10		ND	0.77	2	1/14/13 19:25	TPH
1,2-Dichlorobenzene	ND	0.10		ND	0.60	2	1/14/13 19:25	TPH
1,3-Dichlorobenzene	ND	0.10		ND	0.60	2	1/14/13 19:25	TPH
1,4-Dichlorobenzene	ND	0.10		ND	0.60	2	1/14/13 19:25	TPH
Dichlorodifluoromethane (Freon 12)	0.47	0.10		2.3	0.49	2	1/14/13 19:25	TPH
1,1-Dichloroethane	ND	0.10		ND	0.40	2	1/14/13 19:25	TPH
1,2-Dichloroethane	ND	0.10		ND	0.40	2	1/14/13 19:25	TPH
1,1-Dichloroethylene	ND	0.10		ND	0.40	2	1/14/13 19:25	TPH
cis-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	1/14/13 19:25	TPH
trans-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	1/14/13 19:25	TPH
1,2-Dichloropropane	ND	0.10		ND	0.46	2	1/14/13 19:25	TPH
cis-1,3-Dichloropropene	ND	0.10		ND	0.45	2	1/14/13 19:25	TPH
trans-1,3-Dichloropropene	ND	0.10		ND	0.45	2	1/14/13 19:25	TPH
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10		ND	0.70	2	1/14/13 19:25	TPH
1,4-Dioxane	ND	0.10		ND	0.36	2	1/14/13 19:25	TPH
Ethanol	ND	4.0		ND	7.5	2	1/14/13 19:25	TPH
Ethyl Acetate	0.93	0.10		3.4	0.36	2	1/14/13 19:25	TPH
Ethylbenzene	ND	0.10		ND	0.43	2	1/14/13 19:25	TPH
4-Ethyltoluene	ND	0.10		ND	0.49	2	1/14/13 19:25	TPH
Heptane	ND	0.10		ND	0.41	2	1/14/13 19:25	TPH
Hexachlorobutadiene	ND	0.10		ND	1.1	2	1/14/13 19:25	TPH

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ANALYTICAL RESULTS

Project Location: Cohoes, NY
Date Received: 1/11/2013
Field Sample #: 8W-DUP
Sample ID: 13A0288-02
Sample Matrix: Soil Gas
Sampled: 1/10/2013 09:30

Sample Description/Location:
Sub Description/Location:
Canister ID: 1296
Canister Size: 6 liter
Flow Controller ID: 3399
Sample Type: 24 hr

Work Order: 13A0288
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): -11
Receipt Vacuum(in Hg): -10
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

	ppbv			ug/m3			Date/Time	
Analyte	**Results**	**RL**	**Flag**	**Results**	**RL**	**Dilution**	**Analyzed**	**Analyst**
Hexane	ND	4.0		ND	14	2	1/14/13 19:25	TPH
2-Hexanone (MBK)	0.12	0.10		0.48	0.41	2	1/14/13 19:25	TPH
Isopropanol	ND	4.0		ND	9.8	2	1/14/13 19:25	TPH
Methyl tert-Butyl Ether (MTBE)	ND	0.10		ND	0.36	2	1/14/13 19:25	TPH
Methylene Chloride	1.2	1.0		4.1	3.5	2	1/14/13 19:25	TPH
4-Methyl-2-pentanone (MIBK)	ND	0.10		ND	0.41	2	1/14/13 19:25	TPH
Naphthalene	ND	0.10	V-05	ND	0.52	2	1/14/13 19:25	TPH
Propene	ND	4.0		ND	6.9	2	1/14/13 19:25	TPH
Styrene	ND	0.10		ND	0.43	2	1/14/13 19:25	TPH
1,1,2,2-Tetrachloroethane	ND	0.10		ND	0.69	2	1/14/13 19:25	TPH
Tetrachloroethylene	1.6	0.10		11	0.68	2	1/14/13 19:25	TPH
Tetrahydrofuran	ND	0.10		ND	0.29	2	1/14/13 19:25	TPH
Toluene	0.11	0.10		0.41	0.38	2	1/14/13 19:25	TPH
1,2,4-Trichlorobenzene	ND	0.10		ND	0.74	2	1/14/13 19:25	TPH
1,1,1-Trichloroethane	0.14	0.10		0.76	0.55	2	1/14/13 19:25	TPH
1,1,2-Trichloroethane	ND	0.10		ND	0.55	2	1/14/13 19:25	TPH
Trichloroethylene	ND	0.10		ND	0.54	2	1/14/13 19:25	TPH
Trichlorofluoromethane (Freon 11)	0.28	0.10		1.6	0.56	2	1/14/13 19:25	TPH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.14	0.10		1.1	0.77	2	1/14/13 19:25	TPH
1,2,4-Trimethylbenzene	ND	0.10		ND	0.49	2	1/14/13 19:25	TPH
1,3,5-Trimethylbenzene	ND	0.10		ND	0.49	2	1/14/13 19:25	TPH
Vinyl Acetate	ND	0.20		ND	0.70	2	1/14/13 19:25	TPH
Vinyl Chloride	ND	0.10		ND	0.26	2	1/14/13 19:25	TPH
m&p-Xylene	ND	0.20		ND	0.87	2	1/14/13 19:25	TPH
o-Xylene	ND	0.10		ND	0.43	2	1/14/13 19:25	TPH

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	104	70-130	1/14/13 19:25

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ANALYTICAL RESULTS

Project Location: Cohoes, NY
Date Received: 1/11/2013
Field Sample #: 8W-BA-1
Sample ID: 13A0288-03
Sample Matrix: Indoor air
Sampled: 1/10/2013 09:30

Sample Description/Location:
Sub Description/Location:
Canister ID: 1474
Canister Size: 6 liter
Flow Controller ID: 3403
Sample Type: 24 hr

Work Order: 13A0288
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): -9
Receipt Vacuum(in Hg): -9.2
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

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Analyte	ppbv Results	ppbv RL	Flag	ug/m3 Results	ug/m3 RL	Dilution	Date/Time Analyzed	Analyst
Acetone	12	1.4		28	3.3	0.702	1/14/13 6:02	TPH
Benzene	0.34	0.035		1.1	0.11	0.702	1/14/13 6:02	TPH
Benzyl chloride	ND	0.035		ND	0.18	0.702	1/14/13 6:02	TPH
Bromodichloromethane	ND	0.035		ND	0.24	0.702	1/14/13 6:02	TPH
Bromoform	ND	0.035		ND	0.36	0.702	1/14/13 6:02	TPH
Bromomethane	ND	0.035		ND	0.14	0.702	1/14/13 6:02	TPH
1,3-Butadiene	ND	0.035		ND	0.078	0.702	1/14/13 6:02	TPH
2-Butanone (MEK)	ND	1.4		ND	4.1	0.702	1/14/13 6:02	TPH
Carbon Disulfide	ND	0.35		ND	1.1	0.702	1/14/13 6:02	TPH
Carbon Tetrachloride	0.069	0.035		0.44	0.22	0.702	1/14/13 6:02	TPH
Chlorobenzene	ND	0.035		ND	0.16	0.702	1/14/13 6:02	TPH
Chloroethane	ND	0.035		ND	0.093	0.702	1/14/13 6:02	TPH
Chloroform	0.30	0.035		1.5	0.17	0.702	1/14/13 6:02	TPH
Chloromethane	0.53	0.035		1.1	0.072	0.702	1/14/13 6:02	TPH
Cyclohexane	ND	0.035		ND	0.12	0.702	1/14/13 6:02	TPH
Dibromochloromethane	ND	0.035		ND	0.30	0.702	1/14/13 6:02	TPH
1,2-Dibromoethane (EDB)	ND	0.035		ND	0.27	0.702	1/14/13 6:02	TPH
1,2-Dichlorobenzene	ND	0.035		ND	0.21	0.702	1/14/13 6:02	TPH
1,3-Dichlorobenzene	ND	0.035		ND	0.21	0.702	1/14/13 6:02	TPH
1,4-Dichlorobenzene	0.036	0.035		0.22	0.21	0.702	1/14/13 6:02	TPH
Dichlorodifluoromethane (Freon 12)	0.33	0.035		1.6	0.17	0.702	1/14/13 6:02	TPH
1,1-Dichloroethane	ND	0.035		ND	0.14	0.702	1/14/13 6:02	TPH
1,2-Dichloroethane	ND	0.035		ND	0.14	0.702	1/14/13 6:02	TPH
1,1-Dichloroethylene	ND	0.035		ND	0.14	0.702	1/14/13 6:02	TPH
cis-1,2-Dichloroethylene	ND	0.035		ND	0.14	0.702	1/14/13 6:02	TPH
trans-1,2-Dichloroethylene	ND	0.035		ND	0.14	0.702	1/14/13 6:02	TPH
1,2-Dichloropropane	ND	0.035		ND	0.16	0.702	1/14/13 6:02	TPH
cis-1,3-Dichloropropene	ND	0.035		ND	0.16	0.702	1/14/13 6:02	TPH
trans-1,3-Dichloropropene	ND	0.035		ND	0.16	0.702	1/14/13 6:02	TPH
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035		ND	0.25	0.702	1/14/13 6:02	TPH
1,4-Dioxane	ND	0.035		ND	0.13	0.702	1/14/13 6:02	TPH
Ethanol	24	1.4		44	2.6	0.702	1/14/13 6:02	TPH
Ethyl Acetate	3.4	0.035		12	0.13	0.702	1/14/13 6:02	TPH
Ethylbenzene	0.14	0.035		0.61	0.15	0.702	1/14/13 6:02	TPH
4-Ethyltoluene	0.037	0.035		0.18	0.17	0.702	1/14/13 6:02	TPH
Heptane	0.10	0.035		0.42	0.14	0.702	1/14/13 6:02	TPH
Hexachlorobutadiene	ND	0.035		ND	0.37	0.702	1/14/13 6:02	TPH

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ANALYTICAL RESULTS

Project Location: Cohoes, NY
Date Received: 1/11/2013
Field Sample #: 8W-BA-1
Sample ID: 13A0288-03
Sample Matrix: Indoor air
Sampled: 1/10/2013 09:30

Sample Description/Location:
Sub Description/Location:
Canister ID: 1474
Canister Size: 6 liter
Flow Controller ID: 3403
Sample Type: 24 hr

Work Order: 13A0288
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): -9
Receipt Vacuum(in Hg): -9.2
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

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Analyte	ppbv Results	ppbv RL	Flag	ug/m3 Results	ug/m3 RL	Dilution	Date/Time Analyzed	Analyst
Hexane	ND	1.4		ND	4.9	0.702	1/14/13 6:02	TPH
2-Hexanone (MBK)	0.074	0.035		0.30	0.14	0.702	1/14/13 6:02	TPH
Isopropanol	ND	1.4		ND	3.4	0.702	1/14/13 6:02	TPH
Methyl tert-Butyl Ether (MTBE)	ND	0.035		ND	0.13	0.702	1/14/13 6:02	TPH
Methylene Chloride	0.40	0.35		1.4	1.2	0.702	1/14/13 6:02	TPH
4-Methyl-2-pentanone (MIBK)	0.053	0.035		0.22	0.14	0.702	1/14/13 6:02	TPH
Naphthalene	0.053	0.035	V-05	0.28	0.18	0.702	1/14/13 6:02	TPH
Propene	ND	1.4		ND	2.4	0.702	1/14/13 6:02	TPH
Styrene	0.039	0.035		0.17	0.15	0.702	1/14/13 6:02	TPH
1,1,2,2-Tetrachloroethane	ND	0.035		ND	0.24	0.702	1/14/13 6:02	TPH
Tetrachloroethylene	0.20	0.035		1.4	0.24	0.702	1/14/13 6:02	TPH
Tetrahydrofuran	ND	0.035		ND	0.10	0.702	1/14/13 6:02	TPH
Toluene	0.88	0.035		3.3	0.13	0.702	1/14/13 6:02	TPH
1,2,4-Trichlorobenzene	ND	0.035		ND	0.26	0.702	1/14/13 6:02	TPH
1,1,1-Trichloroethane	ND	0.035		ND	0.19	0.702	1/14/13 6:02	TPH
1,1,2-Trichloroethane	ND	0.035		ND	0.19	0.702	1/14/13 6:02	TPH
Trichloroethylene	ND	0.035		ND	0.19	0.702	1/14/13 6:02	TPH
Trichlorofluoromethane (Freon 11)	0.34	0.035		1.9	0.20	0.702	1/14/13 6:02	TPH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.14	0.035		1.0	0.27	0.702	1/14/13 6:02	TPH
1,2,4-Trimethylbenzene	0.14	0.035		0.70	0.17	0.702	1/14/13 6:02	TPH
1,3,5-Trimethylbenzene	0.038	0.035		0.19	0.17	0.702	1/14/13 6:02	TPH
Vinyl Acetate	ND	0.070		ND	0.25	0.702	1/14/13 6:02	TPH
Vinyl Chloride	ND	0.035		ND	0.090	0.702	1/14/13 6:02	TPH
m&p-Xylene	0.43	0.070		1.8	0.30	0.702	1/14/13 6:02	TPH
o-Xylene	0.15	0.035		0.67	0.15	0.702	1/14/13 6:02	TPH

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	105	70-130	1/14/13 6:02

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ANALYTICAL RESULTS

Project Location: Cohoes, NY
Date Received: 1/11/2013
Field Sample #: AA-010913
Sample ID: 13A0288-04
Sample Matrix: Ambient Air
Sampled: 1/10/2013 10:00

Sample Description/Location:
Sub Description/Location:
Canister ID: 1624
Canister Size: 6 liter
Flow Controller ID: 3060
Sample Type: 24 hr

Work Order: 13A0288
Initial Vacuum(in Hg): -28
Final Vacuum(in Hg): -6
Receipt Vacuum(in Hg): -7.8
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

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Analyte	ppbv Results	ppbv RL	Flag	ug/m3 Results	ug/m3 RL	Dilution	Date/Time Analyzed	Analyst
Acetone	4.2	1.4		9.9	3.3	0.702	1/14/13 7:25	TPH
Benzene	0.25	0.035		0.80	0.11	0.702	1/14/13 7:25	TPH
Benzyl chloride	ND	0.035		ND	0.18	0.702	1/14/13 7:25	TPH
Bromodichloromethane	ND	0.035		ND	0.24	0.702	1/14/13 7:25	TPH
Bromoform	ND	0.035		ND	0.36	0.702	1/14/13 7:25	TPH
Bromomethane	ND	0.035		ND	0.14	0.702	1/14/13 7:25	TPH
1,3-Butadiene	ND	0.035		ND	0.078	0.702	1/14/13 7:25	TPH
2-Butanone (MEK)	ND	1.4		ND	4.1	0.702	1/14/13 7:25	TPH
Carbon Disulfide	ND	0.35		ND	1.1	0.702	1/14/13 7:25	TPH
Carbon Tetrachloride	0.067	0.035		0.42	0.22	0.702	1/14/13 7:25	TPH
Chlorobenzene	ND	0.035		ND	0.16	0.702	1/14/13 7:25	TPH
Chloroethane	ND	0.035		ND	0.093	0.702	1/14/13 7:25	TPH
Chloroform	ND	0.035		ND	0.17	0.702	1/14/13 7:25	TPH
Chloromethane	0.59	0.035		1.2	0.072	0.702	1/14/13 7:25	TPH
Cyclohexane	ND	0.035		ND	0.12	0.702	1/14/13 7:25	TPH
Dibromochloromethane	ND	0.035		ND	0.30	0.702	1/14/13 7:25	TPH
1,2-Dibromoethane (EDB)	ND	0.035		ND	0.27	0.702	1/14/13 7:25	TPH
1,2-Dichlorobenzene	ND	0.035		ND	0.21	0.702	1/14/13 7:25	TPH
1,3-Dichlorobenzene	ND	0.035		ND	0.21	0.702	1/14/13 7:25	TPH
1,4-Dichlorobenzene	ND	0.035		ND	0.21	0.702	1/14/13 7:25	TPH
Dichlorodifluoromethane (Freon 12)	0.35	0.035		1.7	0.17	0.702	1/14/13 7:25	TPH
1,1-Dichloroethane	ND	0.035		ND	0.14	0.702	1/14/13 7:25	TPH
1,2-Dichloroethane	ND	0.035		ND	0.14	0.702	1/14/13 7:25	TPH
1,1-Dichloroethylene	ND	0.035		ND	0.14	0.702	1/14/13 7:25	TPH
cis-1,2-Dichloroethylene	ND	0.035		ND	0.14	0.702	1/14/13 7:25	TPH
trans-1,2-Dichloroethylene	ND	0.035		ND	0.14	0.702	1/14/13 7:25	TPH
1,2-Dichloropropane	ND	0.035		ND	0.16	0.702	1/14/13 7:25	TPH
cis-1,3-Dichloropropene	ND	0.035		ND	0.16	0.702	1/14/13 7:25	TPH
trans-1,3-Dichloropropene	ND	0.035		ND	0.16	0.702	1/14/13 7:25	TPH
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035		ND	0.25	0.702	1/14/13 7:25	TPH
1,4-Dioxane	0.47	0.035		1.7	0.13	0.702	1/14/13 7:25	TPH
Ethanol	3.2	1.4		6.0	2.6	0.702	1/14/13 7:25	TPH
Ethyl Acetate	0.17	0.035		0.60	0.13	0.702	1/14/13 7:25	TPH
Ethylbenzene	0.046	0.035		0.20	0.15	0.702	1/14/13 7:25	TPH
4-Ethyltoluene	ND	0.035		ND	0.17	0.702	1/14/13 7:25	TPH
Heptane	0.062	0.035		0.26	0.14	0.702	1/14/13 7:25	TPH
Hexachlorobutadiene	ND	0.035		ND	0.37	0.702	1/14/13 7:25	TPH

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ANALYTICAL RESULTS

Project Location: Cohoes, NY
Date Received: 1/11/2013
Field Sample #: AA-010913
Sample ID: 13A0288-04
Sample Matrix: Ambient Air
Sampled: 1/10/2013 10:00

Sample Description/Location:
Sub Description/Location:
Canister ID: 1624
Canister Size: 6 liter
Flow Controller ID: 3060
Sample Type: 24 hr

Work Order: 13A0288
Initial Vacuum(in Hg): -28
Final Vacuum(in Hg): -6
Receipt Vacuum(in Hg): -7.8
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

	ppbv			ug/m3			Date/Time	
Analyte	**Results**	**RL**	**Flag**	**Results**	**RL**	**Dilution**	**Analyzed**	**Analyst**
Hexane	ND	1.4		ND	4.9	0.702	1/14/13 7:25	TPH
2-Hexanone (MBK)	ND	0.035		ND	0.14	0.702	1/14/13 7:25	TPH
Isopropanol	ND	1.4		ND	3.4	0.702	1/14/13 7:25	TPH
Methyl tert-Butyl Ether (MTBE)	ND	0.035		ND	0.13	0.702	1/14/13 7:25	TPH
Methylene Chloride	ND	0.35		ND	1.2	0.702	1/14/13 7:25	TPH
4-Methyl-2-pentanone (MIBK)	ND	0.035		ND	0.14	0.702	1/14/13 7:25	TPH
Naphthalene	ND	0.035	V-05	ND	0.18	0.702	1/14/13 7:25	TPH
Propene	ND	1.4		ND	2.4	0.702	1/14/13 7:25	TPH
Styrene	ND	0.035		ND	0.15	0.702	1/14/13 7:25	TPH
1,1,2,2-Tetrachloroethane	ND	0.035		ND	0.24	0.702	1/14/13 7:25	TPH
Tetrachloroethylene	ND	0.035		ND	0.24	0.702	1/14/13 7:25	TPH
Tetrahydrofuran	ND	0.035		ND	0.10	0.702	1/14/13 7:25	TPH
Toluene	0.26	0.035		0.98	0.13	0.702	1/14/13 7:25	TPH
1,2,4-Trichlorobenzene	ND	0.035		ND	0.26	0.702	1/14/13 7:25	TPH
1,1,1-Trichloroethane	ND	0.035		ND	0.19	0.702	1/14/13 7:25	TPH
1,1,2-Trichloroethane	ND	0.035		ND	0.19	0.702	1/14/13 7:25	TPH
Trichloroethylene	ND	0.035		ND	0.19	0.702	1/14/13 7:25	TPH
Trichlorofluoromethane (Freon 11)	0.26	0.035		1.5	0.20	0.702	1/14/13 7:25	TPH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.088	0.035		0.67	0.27	0.702	1/14/13 7:25	TPH
1,2,4-Trimethylbenzene	0.036	0.035		0.18	0.17	0.702	1/14/13 7:25	TPH
1,3,5-Trimethylbenzene	ND	0.035		ND	0.17	0.702	1/14/13 7:25	TPH
Vinyl Acetate	ND	0.070		ND	0.25	0.702	1/14/13 7:25	TPH
Vinyl Chloride	ND	0.035		ND	0.090	0.702	1/14/13 7:25	TPH
m&p-Xylene	0.13	0.070		0.57	0.30	0.702	1/14/13 7:25	TPH
o-Xylene	0.051	0.035		0.22	0.15	0.702	1/14/13 7:25	TPH

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	104	70-130	1/14/13 7:25

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ANALYTICAL RESULTS

Project Location: Cohoes, NY
Date Received: 1/11/2013
Field Sample #: SV-15
Sample ID: 13A0288-05
Sample Matrix: Soil Gas
Sampled: 1/9/2013 12:55

Sample Description/Location:
Sub Description/Location:
Canister ID: 1711
Canister Size: 6 liter
Flow Controller ID: 4168
Sample Type: 1 hr

Work Order: 13A0288
Initial Vacuum(in Hg): -25
Final Vacuum(in Hg): -3
Receipt Vacuum(in Hg): -3.9
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

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	ppbv			ug/m3			Date/Time	
Analyte	Results	RL	Flag	Results	RL	Dilution	Analyzed	Analyst
Acetone	9.3	4.0	V-06	22	9.5	2	1/14/13 20:05	TPH
Benzene	0.61	0.10		1.9	0.32	2	1/14/13 20:05	TPH
Benzyl chloride	ND	0.10		ND	0.52	2	1/14/13 20:05	TPH
Bromodichloromethane	ND	0.10		ND	0.67	2	1/14/13 20:05	TPH
Bromoform	ND	0.10		ND	1.0	2	1/14/13 20:05	TPH
Bromomethane	ND	0.10		ND	0.39	2	1/14/13 20:05	TPH
1,3-Butadiene	ND	0.10		ND	0.22	2	1/14/13 20:05	TPH
2-Butanone (MEK)	ND	4.0		ND	12	2	1/14/13 20:05	TPH
Carbon Disulfide	1.6	1.0		5.0	3.1	2	1/14/13 20:05	TPH
Carbon Tetrachloride	ND	0.10		ND	0.63	2	1/14/13 20:05	TPH
Chlorobenzene	ND	0.10		ND	0.46	2	1/14/13 20:05	TPH
Chloroethane	ND	0.10		ND	0.26	2	1/14/13 20:05	TPH
Chloroform	ND	0.10		ND	0.49	2	1/14/13 20:05	TPH
Chloromethane	ND	0.10		ND	0.21	2	1/14/13 20:05	TPH
Cyclohexane	0.31	0.10		1.1	0.34	2	1/14/13 20:05	TPH
Dibromochloromethane	ND	0.10		ND	0.85	2	1/14/13 20:05	TPH
1,2-Dibromoethane (EDB)	ND	0.10		ND	0.77	2	1/14/13 20:05	TPH
1,2-Dichlorobenzene	ND	0.10		ND	0.60	2	1/14/13 20:05	TPH
1,3-Dichlorobenzene	ND	0.10		ND	0.60	2	1/14/13 20:05	TPH
1,4-Dichlorobenzene	ND	0.10		ND	0.60	2	1/14/13 20:05	TPH
Dichlorodifluoromethane (Freon 12)	0.43	0.10		2.1	0.49	2	1/14/13 20:05	TPH
1,1-Dichloroethane	ND	0.10		ND	0.40	2	1/14/13 20:05	TPH
1,2-Dichloroethane	ND	0.10		ND	0.40	2	1/14/13 20:05	TPH
1,1-Dichloroethylene	ND	0.10		ND	0.40	2	1/14/13 20:05	TPH
cis-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	1/14/13 20:05	TPH
trans-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	1/14/13 20:05	TPH
1,2-Dichloropropane	ND	0.10		ND	0.46	2	1/14/13 20:05	TPH
cis-1,3-Dichloropropene	ND	0.10		ND	0.45	2	1/14/13 20:05	TPH
trans-1,3-Dichloropropene	ND	0.10		ND	0.45	2	1/14/13 20:05	TPH
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10		ND	0.70	2	1/14/13 20:05	TPH
1,4-Dioxane	ND	0.10		ND	0.36	2	1/14/13 20:05	TPH
Ethanol	ND	4.0		ND	7.5	2	1/14/13 20:05	TPH
Ethyl Acetate	0.55	0.10		2.0	0.36	2	1/14/13 20:05	TPH
Ethylbenzene	2.0	0.10		8.9	0.43	2	1/14/13 20:05	TPH
4-Ethyltoluene	1.5	0.10		7.5	0.49	2	1/14/13 20:05	TPH
Heptane	0.63	0.10		2.6	0.41	2	1/14/13 20:05	TPH
Hexachlorobutadiene	ND	0.10		ND	1.1	2	1/14/13 20:05	TPH

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ANALYTICAL RESULTS

Project Location: Cohoes, NY
Date Received: 1/11/2013
Field Sample #: SV-15
Sample ID: 13A0288-05
Sample Matrix: Soil Gas
Sampled: 1/9/2013 12:55

Sample Description/Location:
Sub Description/Location:
Canister ID: 1711
Canister Size: 6 liter
Flow Controller ID: 4168
Sample Type: 1 hr

Work Order: 13A0288
Initial Vacuum(in Hg): -25
Final Vacuum(in Hg): -3
Receipt Vacuum(in Hg): -3.9
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv Results	ppbv RL	Flag	ug/m3 Results	ug/m3 RL	Dilution	Date/Time Analyzed	Analyst
Hexane	ND	4.0		ND	14	2	1/14/13 20:05	TPH
2-Hexanone (MBK)	0.23	0.10		0.95	0.41	2	1/14/13 20:05	TPH
Isopropanol	ND	4.0		ND	9.8	2	1/14/13 20:05	TPH
Methyl tert-Butyl Ether (MTBE)	ND	0.10		ND	0.36	2	1/14/13 20:05	TPH
Methylene Chloride	ND	1.0		ND	3.5	2	1/14/13 20:05	TPH
4-Methyl-2-pentanone (MIBK)	0.18	0.10		0.74	0.41	2	1/14/13 20:05	TPH
Naphthalene	0.33	0.10	V-05	1.8	0.52	2	1/14/13 20:05	TPH
Propene	ND	4.0		ND	6.9	2	1/14/13 20:05	TPH
Styrene	0.15	0.10		0.62	0.43	2	1/14/13 20:05	TPH
1,1,2,2-Tetrachloroethane	ND	0.10		ND	0.69	2	1/14/13 20:05	TPH
Tetrachloroethylene	0.40	0.10		2.7	0.68	2	1/14/13 20:05	TPH
Tetrahydrofuran	1.5	0.10		4.4	0.29	2	1/14/13 20:05	TPH
Toluene	7.9	0.10		30	0.38	2	1/14/13 20:05	TPH
1,2,4-Trichlorobenzene	ND	0.10		ND	0.74	2	1/14/13 20:05	TPH
1,1,1-Trichloroethane	ND	0.10		ND	0.55	2	1/14/13 20:05	TPH
1,1,2-Trichloroethane	ND	0.10		ND	0.55	2	1/14/13 20:05	TPH
Trichloroethylene	ND	0.10		ND	0.54	2	1/14/13 20:05	TPH
Trichlorofluoromethane (Freon 11)	0.16	0.10		0.91	0.56	2	1/14/13 20:05	TPH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.10		ND	0.77	2	1/14/13 20:05	TPH
1,2,4-Trimethylbenzene	5.6	0.10		27	0.49	2	1/14/13 20:05	TPH
1,3,5-Trimethylbenzene	1.4	0.10		7.1	0.49	2	1/14/13 20:05	TPH
Vinyl Acetate	ND	0.20		ND	0.70	2	1/14/13 20:05	TPH
Vinyl Chloride	ND	0.10		ND	0.26	2	1/14/13 20:05	TPH
m&p-Xylene	8.0	0.20		35	0.87	2	1/14/13 20:05	TPH
o-Xylene	3.1	0.10		14	0.43	2	1/14/13 20:05	TPH

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	108	70-130	1/14/13 20:05

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ANALYTICAL RESULTS

Project Location: Cohoes, NY
Date Received: 1/11/2013
Field Sample #: SV-13
Sample ID: 13A0288-06
Sample Matrix: Soil Gas
Sampled: 1/9/2013 13:15

Sample Description/Location:
Sub Description/Location:
Canister ID: 1627
Canister Size: 6 liter
Flow Controller ID: 4169
Sample Type: 1 hr

Work Order: 13A0288
Initial Vacuum(in Hg): -25
Final Vacuum(in Hg): -4
Receipt Vacuum(in Hg): -4.4
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

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	ppbv			ug/m3			Date/Time	
Analyte	Results	RL	Flag	Results	RL	Dilution	Analyzed	Analyst
Acetone	5.2	4.0	V-06	12	9.5	2	1/14/13 20:44	TPH
Benzene	0.61	0.10		1.9	0.32	2	1/14/13 20:44	TPH
Benzyl chloride	ND	0.10		ND	0.52	2	1/14/13 20:44	TPH
Bromodichloromethane	ND	0.10		ND	0.67	2	1/14/13 20:44	TPH
Bromoform	ND	0.10		ND	1.0	2	1/14/13 20:44	TPH
Bromomethane	ND	0.10		ND	0.39	2	1/14/13 20:44	TPH
1,3-Butadiene	ND	0.10		ND	0.22	2	1/14/13 20:44	TPH
2-Butanone (MEK)	ND	4.0		ND	12	2	1/14/13 20:44	TPH
Carbon Disulfide	4.5	1.0		14	3.1	2	1/14/13 20:44	TPH
Carbon Tetrachloride	ND	0.10		ND	0.63	2	1/14/13 20:44	TPH
Chlorobenzene	ND	0.10		ND	0.46	2	1/14/13 20:44	TPH
Chloroethane	ND	0.10		ND	0.26	2	1/14/13 20:44	TPH
Chloroform	0.34	0.10		1.7	0.49	2	1/14/13 20:44	TPH
Chloromethane	ND	0.10		ND	0.21	2	1/14/13 20:44	TPH
Cyclohexane	0.37	0.10		1.3	0.34	2	1/14/13 20:44	TPH
Dibromochloromethane	ND	0.10		ND	0.85	2	1/14/13 20:44	TPH
1,2-Dibromoethane (EDB)	ND	0.10		ND	0.77	2	1/14/13 20:44	TPH
1,2-Dichlorobenzene	ND	0.10		ND	0.60	2	1/14/13 20:44	TPH
1,3-Dichlorobenzene	ND	0.10		ND	0.60	2	1/14/13 20:44	TPH
1,4-Dichlorobenzene	ND	0.10		ND	0.60	2	1/14/13 20:44	TPH
Dichlorodifluoromethane (Freon 12)	0.45	0.10		2.2	0.49	2	1/14/13 20:44	TPH
1,1-Dichloroethane	ND	0.10		ND	0.40	2	1/14/13 20:44	TPH
1,2-Dichloroethane	ND	0.10		ND	0.40	2	1/14/13 20:44	TPH
1,1-Dichloroethylene	ND	0.10		ND	0.40	2	1/14/13 20:44	TPH
cis-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	1/14/13 20:44	TPH
trans-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	1/14/13 20:44	TPH
1,2-Dichloropropane	ND	0.10		ND	0.46	2	1/14/13 20:44	TPH
cis-1,3-Dichloropropene	ND	0.10		ND	0.45	2	1/14/13 20:44	TPH
trans-1,3-Dichloropropene	ND	0.10		ND	0.45	2	1/14/13 20:44	TPH
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10		ND	0.70	2	1/14/13 20:44	TPH
1,4-Dioxane	ND	0.10		ND	0.36	2	1/14/13 20:44	TPH
Ethanol	6.9	4.0		13	7.5	2	1/14/13 20:44	TPH
Ethyl Acetate	ND	0.10		ND	0.36	2	1/14/13 20:44	TPH
Ethylbenzene	2.6	0.10		11	0.43	2	1/14/13 20:44	TPH
4-Ethyltoluene	1.8	0.10		8.7	0.49	2	1/14/13 20:44	TPH
Heptane	0.72	0.10		2.9	0.41	2	1/14/13 20:44	TPH
Hexachlorobutadiene	ND	0.10		ND	1.1	2	1/14/13 20:44	TPH

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ANALYTICAL RESULTS

Project Location: Cohoes, NY
Date Received: 1/11/2013
Field Sample #: SV-13
Sample ID: 13A0288-06
Sample Matrix: Soil Gas
Sampled: 1/9/2013 13:15

Sample Description/Location:
Sub Description/Location:
Canister ID: 1627
Canister Size: 6 liter
Flow Controller ID: 4169
Sample Type: 1 hr

Work Order: 13A0288
Initial Vacuum(in Hg): -25
Final Vacuum(in Hg): -4
Receipt Vacuum(in Hg): -4.4
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv Results	ppbv RL	Flag	ug/m3 Results	ug/m3 RL	Dilution	Date/Time Analyzed	Analyst
Hexane	ND	4.0		ND	14	2	1/14/13 20:44	TPH
2-Hexanone (MBK)	0.17	0.10		0.70	0.41	2	1/14/13 20:44	TPH
Isopropanol	ND	4.0		ND	9.8	2	1/14/13 20:44	TPH
Methyl tert-Butyl Ether (MTBE)	ND	0.10		ND	0.36	2	1/14/13 20:44	TPH
Methylene Chloride	ND	1.0		ND	3.5	2	1/14/13 20:44	TPH
4-Methyl-2-pentanone (MIBK)	ND	0.10		ND	0.41	2	1/14/13 20:44	TPH
Naphthalene	0.42	0.10	V-05	2.2	0.52	2	1/14/13 20:44	TPH
Propene	ND	4.0		ND	6.9	2	1/14/13 20:44	TPH
Styrene	0.18	0.10		0.77	0.43	2	1/14/13 20:44	TPH
1,1,2,2-Tetrachloroethane	ND	0.10		ND	0.69	2	1/14/13 20:44	TPH
Tetrachloroethylene	0.92	0.10		6.2	0.68	2	1/14/13 20:44	TPH
Tetrahydrofuran	1.9	0.10		5.7	0.29	2	1/14/13 20:44	TPH
Toluene	8.7	0.10		33	0.38	2	1/14/13 20:44	TPH
1,2,4-Trichlorobenzene	ND	0.10		ND	0.74	2	1/14/13 20:44	TPH
1,1,1-Trichloroethane	ND	0.10		ND	0.55	2	1/14/13 20:44	TPH
1,1,2-Trichloroethane	ND	0.10		ND	0.55	2	1/14/13 20:44	TPH
Trichloroethylene	ND	0.10		ND	0.54	2	1/14/13 20:44	TPH
Trichlorofluoromethane (Freon 11)	0.12	0.10		0.67	0.56	2	1/14/13 20:44	TPH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.10		ND	0.77	2	1/14/13 20:44	TPH
1,2,4-Trimethylbenzene	6.3	0.10		31	0.49	2	1/14/13 20:44	TPH
1,3,5-Trimethylbenzene	1.7	0.10		8.3	0.49	2	1/14/13 20:44	TPH
Vinyl Acetate	ND	0.20		ND	0.70	2	1/14/13 20:44	TPH
Vinyl Chloride	ND	0.10		ND	0.26	2	1/14/13 20:44	TPH
m&p-Xylene	8.8	0.20		38	0.87	2	1/14/13 20:44	TPH
o-Xylene	3.9	0.10		17	0.43	2	1/14/13 20:44	TPH

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	113	70-130	1/14/13 20:44

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ANALYTICAL RESULTS

Project Location: Cohoes, NY
Date Received: 1/11/2013
Field Sample #: SV-12
Sample ID: 13A0288-07
Sample Matrix: Soil Gas
Sampled: 1/9/2013 13:40

Sample Description/Location:
Sub Description/Location:
Canister ID: 1153
Canister Size: 6 liter
Flow Controller ID: 4166
Sample Type: 1 hr

Work Order: 13A0288
Initial Vacuum(in Hg): -29
Final Vacuum(in Hg): -4
Receipt Vacuum(in Hg): -0.6
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

	ppbv			ug/m3			Date/Time	
Analyte	Results	RL	Flag	Results	RL	Dilution	Analyzed	Analyst
Acetone	21	4.0	V-06	50	9.5	2	1/14/13 21:24	TPH
Benzene	0.36	0.10		1.1	0.32	2	1/14/13 21:24	TPH
Benzyl chloride	ND	0.10		ND	0.52	2	1/14/13 21:24	TPH
Bromodichloromethane	ND	0.10		ND	0.67	2	1/14/13 21:24	TPH
Bromoform	ND	0.10		ND	1.0	2	1/14/13 21:24	TPH
Bromomethane	ND	0.10		ND	0.39	2	1/14/13 21:24	TPH
1,3-Butadiene	ND	0.10		ND	0.22	2	1/14/13 21:24	TPH
2-Butanone (MEK)	ND	4.0		ND	12	2	1/14/13 21:24	TPH
Carbon Disulfide	4.6	1.0		14	3.1	2	1/14/13 21:24	TPH
Carbon Tetrachloride	ND	0.10		ND	0.63	2	1/14/13 21:24	TPH
Chlorobenzene	ND	0.10		ND	0.46	2	1/14/13 21:24	TPH
Chloroethane	ND	0.10		ND	0.26	2	1/14/13 21:24	TPH
Chloroform	0.11	0.10		0.56	0.49	2	1/14/13 21:24	TPH
Chloromethane	ND	0.10		ND	0.21	2	1/14/13 21:24	TPH
Cyclohexane	0.17	0.10		0.59	0.34	2	1/14/13 21:24	TPH
Dibromochloromethane	ND	0.10		ND	0.85	2	1/14/13 21:24	TPH
1,2-Dibromoethane (EDB)	ND	0.10		ND	0.77	2	1/14/13 21:24	TPH
1,2-Dichlorobenzene	ND	0.10		ND	0.60	2	1/14/13 21:24	TPH
1,3-Dichlorobenzene	ND	0.10		ND	0.60	2	1/14/13 21:24	TPH
1,4-Dichlorobenzene	ND	0.10		ND	0.60	2	1/14/13 21:24	TPH
Dichlorodifluoromethane (Freon 12)	0.33	0.10		1.6	0.49	2	1/14/13 21:24	TPH
1,1-Dichloroethane	ND	0.10		ND	0.40	2	1/14/13 21:24	TPH
1,2-Dichloroethane	ND	0.10		ND	0.40	2	1/14/13 21:24	TPH
1,1-Dichloroethylene	ND	0.10		ND	0.40	2	1/14/13 21:24	TPH
cis-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	1/14/13 21:24	TPH
trans-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	1/14/13 21:24	TPH
1,2-Dichloropropane	ND	0.10		ND	0.46	2	1/14/13 21:24	TPH
cis-1,3-Dichloropropene	ND	0.10		ND	0.45	2	1/14/13 21:24	TPH
trans-1,3-Dichloropropene	ND	0.10		ND	0.45	2	1/14/13 21:24	TPH
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10		ND	0.70	2	1/14/13 21:24	TPH
1,4-Dioxane	ND	0.10		ND	0.36	2	1/14/13 21:24	TPH
Ethanol	ND	4.0		ND	7.5	2	1/14/13 21:24	TPH
Ethyl Acetate	ND	0.10		ND	0.36	2	1/14/13 21:24	TPH
Ethylbenzene	5.0	0.10		22	0.43	2	1/14/13 21:24	TPH
4-Ethyltoluene	1.7	0.10		8.4	0.49	2	1/14/13 21:24	TPH
Heptane	0.45	0.10		1.9	0.41	2	1/14/13 21:24	TPH
Hexachlorobutadiene	ND	0.10		ND	1.1	2	1/14/13 21:24	TPH

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ANALYTICAL RESULTS

Project Location: Cohoes, NY
Date Received: 1/11/2013
Field Sample #: SV-12
Sample ID: 13A0288-07
Sample Matrix: Soil Gas
Sampled: 1/9/2013 13:40

Sample Description/Location:
Sub Description/Location:
Canister ID: 1153
Canister Size: 6 liter
Flow Controller ID: 4166
Sample Type: 1 hr

Work Order: 13A0288
Initial Vacuum(in Hg): -29
Final Vacuum(in Hg): -4
Receipt Vacuum(in Hg): -0.6
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv Results	ppbv RL	Flag	ug/m3 Results	ug/m3 RL	Dilution	Date/Time Analyzed	Analyst
Hexane	ND	4.0		ND	14	2	1/14/13 21:24	TPH
2-Hexanone (MBK)	0.24	0.10		0.97	0.41	2	1/14/13 21:24	TPH
Isopropanol	ND	4.0		ND	9.8	2	1/14/13 21:24	TPH
Methyl tert-Butyl Ether (MTBE)	ND	0.10		ND	0.36	2	1/14/13 21:24	TPH
Methylene Chloride	ND	1.0		ND	3.5	2	1/14/13 21:24	TPH
4-Methyl-2-pentanone (MIBK)	0.16	0.10		0.66	0.41	2	1/14/13 21:24	TPH
Naphthalene	0.32	0.10	V-05	1.7	0.52	2	1/14/13 21:24	TPH
Propene	ND	4.0		ND	6.9	2	1/14/13 21:24	TPH
Styrene	0.16	0.10		0.69	0.43	2	1/14/13 21:24	TPH
1,1,2,2-Tetrachloroethane	ND	0.10		ND	0.69	2	1/14/13 21:24	TPH
Tetrachloroethylene	0.12	0.10		0.79	0.68	2	1/14/13 21:24	TPH
Tetrahydrofuran	3.6	0.10		11	0.29	2	1/14/13 21:24	TPH
Toluene	7.5	0.10		28	0.38	2	1/14/13 21:24	TPH
1,2,4-Trichlorobenzene	ND	0.10		ND	0.74	2	1/14/13 21:24	TPH
1,1,1-Trichloroethane	ND	0.10		ND	0.55	2	1/14/13 21:24	TPH
1,1,2-Trichloroethane	ND	0.10		ND	0.55	2	1/14/13 21:24	TPH
Trichloroethylene	ND	0.10		ND	0.54	2	1/14/13 21:24	TPH
Trichlorofluoromethane (Freon 11)	0.11	0.10		0.64	0.56	2	1/14/13 21:24	TPH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.10		ND	0.77	2	1/14/13 21:24	TPH
1,2,4-Trimethylbenzene	5.5	0.10		27	0.49	2	1/14/13 21:24	TPH
1,3,5-Trimethylbenzene	1.7	0.10		8.2	0.49	2	1/14/13 21:24	TPH
Vinyl Acetate	ND	0.20		ND	0.70	2	1/14/13 21:24	TPH
Vinyl Chloride	ND	0.10		ND	0.26	2	1/14/13 21:24	TPH
m&p-Xylene	11	0.20		50	0.87	2	1/14/13 21:24	TPH
o-Xylene	6.2	0.10		27	0.43	2	1/14/13 21:24	TPH

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	108	70-130	1/14/13 21:24

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Sample Extraction Data

Prep Method: TO-15 Prep-EPA TO-15

Lab Number [Field ID]	Batch	Pressure Dilution	Pre Dilution	Pre-Dil Initial mL	Pre-Dil Final mL	Default Injection mL	Actual Injection mL	Date
13A0288-03 [8W-BA-1]	B066164	1.5	1	N/A	1000	400	855	01/13/13
13A0288-04 [AA-010913]	B066164	1.5	1	N/A	1000	400	855	01/13/13

Prep Method: TO-15 Prep-EPA TO-15

Lab Number [Field ID]	Batch	Pressure Dilution	Pre Dilution	Pre-Dil Initial mL	Pre-Dil Final mL	Default Injection mL	Actual Injection mL	Date
13A0288-01 [8W-SS-1]	B066165	1	1	N/A	1000	400	200	01/14/13
13A0288-02 [8W-DUP]	B066165	1.5	1	N/A	1000	400	300	01/14/13
13A0288-05 [SV-15]	B066165	1	1	N/A	1000	400	200	01/14/13
13A0288-06 [SV-13]	B066165	1	1	N/A	1000	400	200	01/14/13
13A0288-07 [SV-12]	B066165	1	1	N/A	1000	400	200	01/14/13

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QUALITY CONTROL

Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv Results	ppbv RL	ug/m3 Results	ug/m3 RL	Spike Level ppbv	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch B066164 - TO-15 Prep											
Blank (B066164-BLK1)					Prepared & Analyzed: 01/13/13						
Acetone	ND	1.0									
Benzene	ND	0.025									
Benzyl chloride	ND	0.025									
Bromodichloromethane	ND	0.025									
Bromoform	ND	0.025									
Bromomethane	ND	0.025									
1,3-Butadiene	ND	0.025									
2-Butanone (MEK)	ND	1.0									
Carbon Disulfide	ND	0.25									
Carbon Tetrachloride	ND	0.025									
Chlorobenzene	ND	0.025									
Chloroethane	ND	0.025									
Chloroform	ND	0.025									
Chloromethane	ND	0.025									
Cyclohexane	ND	0.025									
Dibromochloromethane	ND	0.025									
1,2-Dibromoethane (EDB)	ND	0.025									
1,2-Dichlorobenzene	ND	0.025									
1,3-Dichlorobenzene	ND	0.025									
1,4-Dichlorobenzene	ND	0.025									
Dichlorodifluoromethane (Freon 12)	ND	0.025									
1,1-Dichloroethane	ND	0.025									
1,2-Dichloroethane	ND	0.025									
1,1-Dichloroethylene	ND	0.025									
cis-1,2-Dichloroethylene	ND	0.025									
trans-1,2-Dichloroethylene	ND	0.025									
1,2-Dichloropropane	ND	0.025									
cis-1,3-Dichloropropene	ND	0.025									
trans-1,3-Dichloropropene	ND	0.025									
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.025									
1,4-Dioxane	ND	0.025									
Ethanol	ND	1.0									
Ethyl Acetate	ND	0.025									
Ethylbenzene	ND	0.025									
4-Ethyltoluene	ND	0.025									
Heptane	ND	0.025									
Hexachlorobutadiene	ND	0.025									
Hexane	ND	1.0									
2-Hexanone (MBK)	ND	0.025									
Isopropanol	ND	1.0									
Methyl tert-Butyl Ether (MTBE)	ND	0.025									
Methylene Chloride	ND	0.25									
4-Methyl-2-pentanone (MIBK)	ND	0.025									
Naphthalene	ND	0.025									V-05
Propene	ND	1.0									
Styrene	ND	0.025									

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QUALITY CONTROL

Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv Results	ppbv RL	ug/m3 Results	ug/m3 RL	Spike Level ppbv	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch B066164 - TO-15 Prep											
Blank (B066164-BLK1)					Prepared & Analyzed: 01/13/13						
1,1,2,2-Tetrachloroethane	ND	0.025									
Tetrachloroethylene	ND	0.025									
Tetrahydrofuran	ND	0.025									
Toluene	ND	0.025									
1,2,4-Trichlorobenzene	ND	0.025									
1,1,1-Trichloroethane	ND	0.025									
1,1,2-Trichloroethane	ND	0.025									
Trichloroethylene	ND	0.025									
Trichlorofluoromethane (Freon 11)	ND	0.025									
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.025									
1,2,4-Trimethylbenzene	ND	0.025									
1,3,5-Trimethylbenzene	ND	0.025									
Vinyl Acetate	ND	0.050									
Vinyl Chloride	ND	0.025									
m&p-Xylene	ND	0.050									
o-Xylene	ND	0.025									
Surrogate: 4-Bromofluorobenzene (1)	*8.51*				*8.00*		*106*	*70-130*			
LCS (B066164-BS1)					Prepared & Analyzed: 01/13/13						
Acetone	6.11				5.00		122	70-130			
Benzene	4.47				5.00		89.4	70-130			
Benzyl chloride	4.79				5.00		95.8	70-130			
Bromodichloromethane	4.72				5.00		94.4	70-130			
Bromoform	4.95				5.00		99.0	70-130			
Bromomethane	5.12				5.00		102	70-130			
1,3-Butadiene	5.06				5.00		101	70-130			
2-Butanone (MEK)	4.54				5.00		90.9	70-130			
Carbon Disulfide	5.44				5.00		109	70-130			
Carbon Tetrachloride	4.62				5.00		92.3	70-130			
Chlorobenzene	4.87				5.00		97.4	70-130			
Chloroethane	6.52				5.00		130	70-130			L-01
Chloroform	5.79				5.00		116	70-130			
Chloromethane	4.79				5.00		95.7	70-130			
Cyclohexane	4.74				5.00		94.7	70-130			
Dibromochloromethane	4.58				5.00		91.6	70-130			
1,2-Dibromoethane (EDB)	4.58				5.00		91.5	70-130			
1,2-Dichlorobenzene	5.53				5.00		111	70-130			
1,3-Dichlorobenzene	5.47				5.00		109	70-130			
1,4-Dichlorobenzene	5.29				5.00		106	70-130			
Dichlorodifluoromethane (Freon 12)	5.52				5.00		110	70-130			
1,1-Dichloroethane	5.34				5.00		107	70-130			
1,2-Dichloroethane	5.12				5.00		102	70-130			
1,1-Dichloroethylene	5.06				5.00		101	70-130			
cis-1,2-Dichloroethylene	5.45				5.00		109	70-130			
trans-1,2-Dichloroethylene	5.11				5.00		102	70-130			
1,2-Dichloropropane	4.49				5.00		89.7	70-130			

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QUALITY CONTROL

Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv Results	ppbv RL	ug/m3 Results	ug/m3 RL	Spike Level ppbv	Source Result	%REC		%REC Limits	RPD	RPD Limit	Flag
Batch B066164 - TO-15 Prep												
LCS (B066164-BS1)					Prepared & Analyzed: 01/13/13							
cis-1,3-Dichloropropene	4.97				5.00		99.3		70-130			
trans-1,3-Dichloropropene	4.56				5.00		91.2		70-130			
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	5.43				5.00		109		70-130			
1,4-Dioxane	4.80				5.00		96.0		70-130			
Ethanol	5.72				5.00		114		70-130			
Ethyl Acetate	5.96				5.00		119		70-130			
Ethylbenzene	4.82				5.00		96.3		70-130			
4-Ethyltoluene	4.82				5.00		96.3		70-130			
Heptane	4.24				5.00		84.8		70-130			
Hexachlorobutadiene	5.69				5.00		114		70-130			
Hexane	4.73				5.00		94.6		70-130			
2-Hexanone (MBK)	3.66				5.00		73.3		70-130			
Isopropanol	7.32				5.00		**146**	*	70-130			L-01, V-06
Methyl tert-Butyl Ether (MTBE)	5.58				5.00		112		70-130			
Methylene Chloride	4.78				5.00		95.7		70-130			
4-Methyl-2-pentanone (MIBK)	3.90				5.00		77.9		70-130			
Naphthalene	4.23				5.00		84.5		70-130			V-05
Propene	5.88				5.00		118		70-130			
Styrene	5.10				5.00		102		70-130			
1,1,2,2-Tetrachloroethane	4.89				5.00		97.8		70-130			
Tetrachloroethylene	5.24				5.00		105		70-130			
Tetrahydrofuran	5.94				5.00		119		70-130			
Toluene	4.76				5.00		95.2		70-130			
1,2,4-Trichlorobenzene	5.39				5.00		108		70-130			
1,1,1-Trichloroethane	4.50				5.00		90.0		70-130			
1,1,2-Trichloroethane	4.78				5.00		95.6		70-130			
Trichloroethylene	4.76				5.00		95.2		70-130			
Trichlorofluoromethane (Freon 11)	5.79				5.00		116		70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	5.74				5.00		115		70-130			
1,2,4-Trimethylbenzene	5.01				5.00		100		70-130			
1,3,5-Trimethylbenzene	4.91				5.00		98.2		70-130			
Vinyl Acetate	4.20				5.00		84.0		70-130			
Vinyl Chloride	5.23				5.00		105		70-130			
m&p-Xylene	9.76				10.0		97.6		70-130			
o-Xylene	4.87				5.00		97.5		70-130			
Surrogate: 4-Bromofluorobenzene (1)	*8.63*				*8.00*		*108*		*70-130*			

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QUALITY CONTROL

Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv Results	ppbv RL	ug/m3 Results	ug/m3 RL	Spike Level ppbv	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch B066165 - TO-15 Prep											
Blank (B066165-BLK1)					Prepared & Analyzed: 01/14/13						
Acetone	ND	1.0									
Benzene	ND	0.025									
Benzyl chloride	ND	0.025									
Bromodichloromethane	ND	0.025									
Bromoform	ND	0.025									
Bromomethane	ND	0.025									
1,3-Butadiene	ND	0.025									
2-Butanone (MEK)	ND	1.0									
Carbon Disulfide	ND	0.25									
Carbon Tetrachloride	ND	0.025									
Chlorobenzene	ND	0.025									
Chloroethane	ND	0.025									
Chloroform	ND	0.025									
Chloromethane	ND	0.025									
Cyclohexane	ND	0.025									
Dibromochloromethane	ND	0.025									
1,2-Dibromoethane (EDB)	ND	0.025									
1,2-Dichlorobenzene	ND	0.025									
1,3-Dichlorobenzene	ND	0.025									
1,4-Dichlorobenzene	ND	0.025									
Dichlorodifluoromethane (Freon 12)	ND	0.025									
1,1-Dichloroethane	ND	0.025									
1,2-Dichloroethane	ND	0.025									
1,1-Dichloroethylene	ND	0.025									
cis-1,2-Dichloroethylene	ND	0.025									
trans-1,2-Dichloroethylene	ND	0.025									
1,2-Dichloropropane	ND	0.025									
cis-1,3-Dichloropropene	ND	0.025									
trans-1,3-Dichloropropene	ND	0.025									
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.025									
1,4-Dioxane	ND	0.025									
Ethanol	ND	1.0									
Ethyl Acetate	ND	0.025									
Ethylbenzene	ND	0.025									
4-Ethyltoluene	ND	0.025									
Heptane	ND	0.025									
Hexachlorobutadiene	ND	0.025									
Hexane	ND	1.0									
2-Hexanone (MBK)	ND	0.025									
Isopropanol	ND	1.0									
Methyl tert-Butyl Ether (MTBE)	ND	0.025									
Methylene Chloride	ND	0.25									
4-Methyl-2-pentanone (MIBK)	ND	0.025									
Naphthalene	ND	0.025									V-05
Propene	ND	1.0									
Styrene	ND	0.025									

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QUALITY CONTROL

Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv Results	ppbv RL	ug/m3 Results	ug/m3 RL	Spike Level ppbv	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch B066165 - TO-15 Prep											
Blank (B066165-BLK1)					Prepared & Analyzed: 01/14/13						
1,1,2,2-Tetrachloroethane	ND	0.025									
Tetrachloroethylene	ND	0.025									
Tetrahydrofuran	ND	0.025									
Toluene	ND	0.025									
1,2,4-Trichlorobenzene	ND	0.025									
1,1,1-Trichloroethane	ND	0.025									
1,1,2-Trichloroethane	ND	0.025									
Trichloroethylene	ND	0.025									
Trichlorofluoromethane (Freon 11)	ND	0.025									
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.025									
1,2,4-Trimethylbenzene	ND	0.025									
1,3,5-Trimethylbenzene	ND	0.025									
Vinyl Acetate	ND	0.050									
Vinyl Chloride	ND	0.025									
m&p-Xylene	ND	0.050									
o-Xylene	ND	0.025									
Surrogate: 4-Bromofluorobenzene (1)	*8.59*				*8.00*		*107*	*70-130*			
LCS (B066165-BS1)					Prepared & Analyzed: 01/14/13						
Acetone	6.08				5.00		122	70-130			V-06
Benzene	4.39				5.00		87.8	70-130			
Benzyl chloride	4.92				5.00		98.4	70-130			
Bromodichloromethane	4.83				5.00		96.7	70-130			
Bromoform	5.12				5.00		102	70-130			
Bromomethane	5.32				5.00		106	70-130			
1,3-Butadiene	5.56				5.00		111	70-130			
2-Butanone (MEK)	4.44				5.00		88.7	70-130			
Carbon Disulfide	5.02				5.00		100	70-130			
Carbon Tetrachloride	4.81				5.00		96.3	70-130			
Chlorobenzene	4.81				5.00		96.2	70-130			
Chloroethane	6.51				5.00		130	70-130			L-01
Chloroform	5.51				5.00		110	70-130			
Chloromethane	5.22				5.00		104	70-130			
Cyclohexane	4.61				5.00		92.3	70-130			
Dibromochloromethane	4.67				5.00		93.4	70-130			
1,2-Dibromoethane (EDB)	4.52				5.00		90.5	70-130			
1,2-Dichlorobenzene	5.70				5.00		114	70-130			
1,3-Dichlorobenzene	5.60				5.00		112	70-130			
1,4-Dichlorobenzene	5.42				5.00		108	70-130			
Dichlorodifluoromethane (Freon 12)	5.52				5.00		110	70-130			
1,1-Dichloroethane	5.15				5.00		103	70-130			
1,2-Dichloroethane	5.24				5.00		105	70-130			
1,1-Dichloroethylene	4.94				5.00		98.9	70-130			
cis-1,2-Dichloroethylene	5.25				5.00		105	70-130			
trans-1,2-Dichloroethylene	4.98				5.00		99.7	70-130			
1,2-Dichloropropane	4.56				5.00		91.1	70-130			

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QUALITY CONTROL

Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv Results	ppbv RL	ug/m3 Results	ug/m3 RL	Spike Level ppbv	Source Result	%REC		%REC Limits	RPD	RPD Limit	Flag
Batch B066165 - TO-15 Prep												
LCS (B066165-BS1)					Prepared & Analyzed: 01/14/13							
cis-1,3-Dichloropropene	4.98				5.00		99.7		70-130			
trans-1,3-Dichloropropene	4.74				5.00		94.7		70-130			
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	5.57				5.00		111		70-130			
1,4-Dioxane	4.62				5.00		92.4		70-130			
Ethanol	5.89				5.00		118		70-130			
Ethyl Acetate	5.66				5.00		113		70-130			
Ethylbenzene	4.76				5.00		95.3		70-130			
4-Ethyltoluene	4.85				5.00		97.0		70-130			
Heptane	4.32				5.00		86.5		70-130			
Hexachlorobutadiene	6.07				5.00		121		70-130			
Hexane	4.77				5.00		95.3		70-130			
2-Hexanone (MBK)	3.83				5.00		76.6		70-130			
Isopropanol	7.03				5.00		**141**	*	70-130			L-01, V-06
Methyl tert-Butyl Ether (MTBE)	5.36				5.00		107		70-130			
Methylene Chloride	4.64				5.00		92.7		70-130			
4-Methyl-2-pentanone (MIBK)	3.99				5.00		79.7		70-130			
Naphthalene	4.36				5.00		87.1		70-130			V-05
Propene	5.86				5.00		117		70-130			
Styrene	5.03				5.00		101		70-130			
1,1,2,2-Tetrachloroethane	4.90				5.00		97.9		70-130			
Tetrachloroethylene	5.21				5.00		104		70-130			
Tetrahydrofuran	5.61				5.00		112		70-130			
Toluene	4.71				5.00		94.2		70-130			
1,2,4-Trichlorobenzene	5.66				5.00		113		70-130			
1,1,1-Trichloroethane	4.68				5.00		93.5		70-130			
1,1,2-Trichloroethane	4.81				5.00		96.3		70-130			
Trichloroethylene	4.72				5.00		94.3		70-130			
Trichlorofluoromethane (Freon 11)	5.60				5.00		112		70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	5.38				5.00		108		70-130			
1,2,4-Trimethylbenzene	5.19				5.00		104		70-130			
1,3,5-Trimethylbenzene	5.01				5.00		100		70-130			
Vinyl Acetate	4.12				5.00		82.5		70-130			
Vinyl Chloride	5.77				5.00		115		70-130			
m&p-Xylene	9.94				10.0		99.4		70-130			
o-Xylene	4.95				5.00		99.0		70-130			
Surrogate: 4-Bromofluorobenzene (1)	*8.84*				*8.00*		*110*		*70-130*			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
L-01	Laboratory fortified blank /laboratory control sample recovery outside of control limits. Data validation is not affected since all results are "not detected" for all samples in this batch for this compound and bias is on the high side.
V-05	Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.
V-06	Continuing calibration did not meet method specifications and was biased on the high side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the high side.

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INTERNAL STANDARD AREA AND RT SUMMARY

EPA TO-15

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (S003698-CCV1)			Lab File ID: B011302.D			Analyzed: 01/13/13 12:58			
Bromochloromethane (1)	193923	8.279	241397	8.28	80	60 - 140	-0.0010	+/-0.50	
1,4-Difluorobenzene (1)	452394	10.171	438709	10.172	103	60 - 140	-0.0010	+/-0.50	
Chlorobenzene-d5 (1)	428405	14.941	404360	14.947	106	60 - 140	-0.0060	+/-0.50	
LCS (B066164-BS1)			Lab File ID: B011303.D			Analyzed: 01/13/13 13:38			
Bromochloromethane (1)	193379	8.282	193923	8.279	100	60 - 140	0.0030	+/-0.50	
1,4-Difluorobenzene (1)	444389	10.168	452394	10.171	98	60 - 140	-0.0030	+/-0.50	
Chlorobenzene-d5 (1)	422620	14.938	428405	14.941	99	60 - 140	-0.0030	+/-0.50	
Blank (B066164-BLK1)			Lab File ID: B011308.D			Analyzed: 01/13/13 17:05			
Bromochloromethane (1)	189263	8.283	193923	8.279	98	60 - 140	0.0040	+/-0.50	
1,4-Difluorobenzene (1)	418973	10.175	452394	10.171	93	60 - 140	0.0040	+/-0.50	
Chlorobenzene-d5 (1)	386146	14.938	428405	14.941	90	60 - 140	-0.0030	+/-0.50	
8W-BA-1 (13A0288-03)			Lab File ID: B011319.D			Analyzed: 01/14/13 06:02			
Bromochloromethane (1)	188198	8.277	193923	8.279	97	60 - 140	-0.0020	+/-0.50	
1,4-Difluorobenzene (1)	414163	10.169	452394	10.171	92	60 - 140	-0.0020	+/-0.50	
Chlorobenzene-d5 (1)	388402	14.939	428405	14.941	91	60 - 140	-0.0020	+/-0.50	
AA-010913 (13A0288-04)			Lab File ID: B011321.D			Analyzed: 01/14/13 07:25			
Bromochloromethane (1)	173671	8.277	193923	8.279	90	60 - 140	-0.0020	+/-0.50	
1,4-Difluorobenzene (1)	378403	10.169	452394	10.171	84	60 - 140	-0.0020	+/-0.50	
Chlorobenzene-d5 (1)	358845	14.938	428405	14.941	84	60 - 140	-0.0030	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY

EPA TO-15

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (S003699-CCV1)			Lab File ID: B011402.D			Analyzed: 01/14/13 14:39			
Bromochloromethane (1)	157575	8.276	241397	8.28	65	60 - 140	-0.0040	+/-0.50	
1,4-Difluorobenzene (1)	341741	10.168	438709	10.172	78	60 - 140	-0.0040	+/-0.50	
Chlorobenzene-d5 (1)	327594	14.938	404360	14.947	81	60 - 140	-0.0090	+/-0.50	
LCS (B066165-BS1)			Lab File ID: B011403.D			Analyzed: 01/14/13 15:19			
Bromochloromethane (1)	157062	8.282	157575	8.276	100	60 - 140	0.0060	+/-0.50	
1,4-Difluorobenzene (1)	340028	10.174	341741	10.168	99	60 - 140	0.0060	+/-0.50	
Chlorobenzene-d5 (1)	323788	14.937	327594	14.938	99	60 - 140	-0.0010	+/-0.50	
Blank (B066165-BLK1)			Lab File ID: B011407.D			Analyzed: 01/14/13 18:01			
Bromochloromethane (1)	171800	8.277	157575	8.276	109	60 - 140	0.0010	+/-0.50	
1,4-Difluorobenzene (1)	363333	10.169	341741	10.168	106	60 - 140	0.0010	+/-0.50	
Chlorobenzene-d5 (1)	343544	14.938	327594	14.938	105	60 - 140	0.0000	+/-0.50	

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INTERNAL STANDARD AREA AND RT SUMMARY

EPA TO-15

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
8W-SS-1 (13A0288-01)			Lab File ID: B011408.D			Analyzed: 01/14/13 18:46			
Bromochloromethane (1)	153645	8.278	157575	8.276	98	60 - 140	0.0020	+/-0.50	
1,4-Difluorobenzene (1)	310879	10.17	341741	10.168	91	60 - 140	0.0020	+/-0.50	
Chlorobenzene-d5 (1)	288753	14.939	327594	14.938	88	60 - 140	0.0010	+/-0.50	
8W-DUP (13A0288-02)			Lab File ID: B011409.D			Analyzed: 01/14/13 19:25			
Bromochloromethane (1)	153520	8.276	157575	8.276	97	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	309450	10.168	341741	10.168	91	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	293318	14.937	327594	14.938	90	60 - 140	-0.0010	+/-0.50	
SV-15 (13A0288-05)			Lab File ID: B011410.D			Analyzed: 01/14/13 20:05			
Bromochloromethane (1)	153508	8.283	157575	8.276	97	60 - 140	0.0070	+/-0.50	
1,4-Difluorobenzene (1)	304107	10.175	341741	10.168	89	60 - 140	0.0070	+/-0.50	
Chlorobenzene-d5 (1)	288455	14.938	327594	14.938	88	60 - 140	0.0000	+/-0.50	
SV-13 (13A0288-06)			Lab File ID: B011411.D			Analyzed: 01/14/13 20:44			
Bromochloromethane (1)	152259	8.283	157575	8.276	97	60 - 140	0.0070	+/-0.50	
1,4-Difluorobenzene (1)	340820	10.169	341741	10.168	100	60 - 140	0.0010	+/-0.50	
Chlorobenzene-d5 (1)	312547	14.939	327594	14.938	95	60 - 140	0.0010	+/-0.50	
SV-12 (13A0288-07)			Lab File ID: B011412.D			Analyzed: 01/14/13 21:24			
Bromochloromethane (1)	176784	8.286	157575	8.276	112	60 - 140	0.0100	+/-0.50	
1,4-Difluorobenzene (1)	407658	10.172	341741	10.168	119	60 - 140	0.0040	+/-0.50	
Chlorobenzene-d5 (1)	373370	14.941	327594	14.938	114	60 - 140	0.0030	+/-0.50	

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CONTINUING CALIBRATION CHECK

EPA TO-15

S003698-CCV1

COMPOUND	TYPE	CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	A	5.00	6.46	0.8283546	1.070842	0.05	29.3	30
Benzene	A	5.00	4.28	0.9413508	0.8067481	0.05	-14.3	30
Benzyl chloride	A	5.00	4.27	0.9366321	0.8006816	0.05	-14.5	30
Bromodichloromethane	A	5.00	4.54	0.6896837	0.6256316	0.05	-9.3	30
Bromoform	A	5.00	4.69	0.6450373	0.6052777	0.05	-6.2	30
Bromomethane	A	5.00	5.24	0.6831357	0.7156902	0.05	4.8	30
1,3-Butadiene	A	5.00	5.47	0.3631511	0.3970813	0.05	9.3	30
2-Butanone (MEK)	A	5.00	4.45	1.545372	1.376093	0.05	-11.0	30
Carbon Disulfide	A	5.00	5.48	1.787941	1.958666	0.05	9.5	30
Carbon Tetrachloride	A	5.00	4.46	0.5349463	0.4776261	0.05	-10.7	30
Chlorobenzene	A	5.00	4.66	0.7508891	0.6992075	0.05	-6.9	30
Chloroethane	A	5.00	6.10	0.2783443	0.3398462	0.05	22.1	30
Chloroform	A	5.00	5.62	1.212155	1.363403	0.05	12.5	30
Chloromethane	A	5.00	5.22	0.5418058	0.5657503	0.05	4.4	30
Cyclohexane	A	5.00	4.60	0.3674421	0.3376667	0.05	-8.1	30
Dibromochloromethane	A	5.00	4.39	0.7473385	0.6567542	0.05	-12.1	30
1,2-Dibromoethane (EDB)	A	5.00	4.34	0.6600501	0.5727403	0.05	-13.2	30
1,2-Dichlorobenzene	A	5.00	4.94	0.6481301	0.6403548	0.05	-1.2	30
1,3-Dichlorobenzene	A	5.00	4.95	0.7015668	0.6940199	0.05	-1.1	30
1,4-Dichlorobenzene	A	5.00	4.74	0.7096668	0.6729483	0.05	-5.2	30
Dichlorodifluoromethane (Freon 12)	A	5.00	5.52	1.429498	1.576609	0.05	10.3	30
1,1-Dichloroethane	A	5.00	5.25	1.092829	1.146995	0.05	5.0	30
1,2-Dichloroethane	A	5.00	4.94	0.7865236	0.7769599	0.05	-1.2	30
1,1-Dichloroethylene	A	5.00	4.89	0.9569238	0.9352991	0.05	-2.3	30
cis-1,2-Dichloroethylene	A	5.00	5.15	0.8321314	0.8575775	0.05	3.1	30
trans-1,2-Dichloroethylene	A	5.00	5.09	0.8759026	0.8914714	0.05	1.8	30
1,2-Dichloropropane	A	5.00	4.22	0.360087	0.3035832	0.05	-15.7	30
cis-1,3-Dichloropropene	A	5.00	4.81	0.523818	0.5035292	0.05	-3.9	30
trans-1,3-Dichloropropene	A	5.00	4.16	0.4919749	0.4090275	0.05	-16.9	30
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 1	A	5.00	5.28	1.685769	1.781689	0.05	5.7	30
1,4-Dioxane	A	5.00	4.60	0.193588	0.1782128	0.05	-7.9	30
Ethanol	A	5.00	4.65	0.1820862	0.1694693	0.05	-6.9	30
Ethyl Acetate	A	5.00	5.75	0.1888158	0.2172739	0.05	15.1	30
Ethylbenzene	A	5.00	4.62	1.243091	1.149283	0.05	-7.5	30
4-Ethyltoluene	A	5.00	4.60	1.17607	1.08172	0.05	-8.0	30
Heptane	A	5.00	4.06	0.2781826	0.225591	0.05	-18.9	30
Hexachlorobutadiene	A	5.00	4.67	0.3871347	0.3614897	0.05	-6.6	30
Hexane	A	5.00	4.56	0.7062516	0.6447343	0.05	-8.7	30

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CONTINUING CALIBRATION CHECK

EPA TO-15

S003698-CCV1

COMPOUND	TYPE	CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT		
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
2-Hexanone (MBK)	A	5.00	3.58	0.9700782	0.6951702	0.05	-28.3	30	
Isopropanol	A	5.00	6.61	0.8060302	1.06547	0.05	32.2	30	*
Methyl tert-Butyl Ether (MTBE)	A	5.00	5.50	1.499911	1.64891	0.05	9.9	30	
Methylene Chloride	A	5.00	4.67	0.8355231	0.7798972	0.05	-6.7	30	
4-Methyl-2-pentanone (MIBK)	A	5.00	3.93	0.9094714	0.7144144	0.05	-21.4	30	
Naphthalene	A	5.00	3.05	1.246215	0.7593338	0.05	-39.1	30	*
Propene	A	5.00	5.84	0.4557526	0.5318895	0.05	16.7	30	
Styrene	A	5.00	4.78	0.6679813	0.639085	0.05	-4.3	30	
1,1,2,2-Tetrachloroethane	A	5.00	4.60	0.9452754	0.8692709	0.05	-8.0	30	
Tetrachloroethylene	A	5.00	5.03	0.4528223	0.4555316	0.05	0.6	30	
Tetrahydrofuran	A	5.00	5.79	0.2562512	0.2967446	0.05	15.8	30	
Toluene	A	5.00	4.59	0.957834	0.8796275	0.05	-8.2	30	
1,2,4-Trichlorobenzene	A	5.00	4.02	0.4479159	0.3598763	0.05	-19.7	30	
1,1,1-Trichloroethane	A	5.00	4.40	0.5392166	0.4745987	0.05	-12.0	30	
1,1,2-Trichloroethane	A	5.00	4.60	0.3705677	0.3424573	0.05	-7.6	30	
Trichloroethylene	A	5.00	4.58	0.3742704	0.3424484	0.05	-8.5	30	
Trichlorofluoromethane (Freon 11)	A	5.00	5.67	1.248934	1.415754	0.05	13.4	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113	A	5.00	5.68	1.044253	1.18579	0.05	13.6	30	
1,2,4-Trimethylbenzene	A	5.00	4.68	0.9274325	0.8690207	0.05	-6.3	30	
1,3,5-Trimethylbenzene	A	5.00	4.67	0.9520193	0.8891698	0.05	-6.6	30	
Vinyl Acetate	A	5.00	4.28	1.995075	1.706929	0.05	-14.4	30	
Vinyl Chloride	A	5.00	5.56	0.5783172	0.6425231	0.05	11.1	30	
m&p-Xylene	A	10.0	9.35	1.013541	0.947692	0.05	-6.5	30	
o-Xylene	A	5.00	4.64	0.9589857	0.8906002	0.05	-7.1	30	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

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CONTINUING CALIBRATION CHECK

EPA TO-15

S003699-CCV1

COMPOUND	TYPE	CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	A	5.00	6.70	0.8283546	1.10909	0.05	33.9	30 *
Benzene	A	5.00	4.29	0.9413508	0.8085	0.05	-14.1	30
Benzyl chloride	A	5.00	4.54	0.9366321	0.8506383	0.05	-9.2	30
Bromodichloromethane	A	5.00	4.75	0.6896837	0.6555421	0.05	-5.0	30
Bromoform	A	5.00	4.85	0.6450373	0.6254474	0.05	-3.0	30
Bromomethane	A	5.00	5.06	0.6831357	0.6908812	0.05	1.1	30
1,3-Butadiene	A	5.00	5.06	0.3631511	0.367835	0.05	1.3	30
2-Butanone (MEK)	A	5.00	4.49	1.545372	1.388169	0.05	-10.2	30
Carbon Disulfide	A	5.00	5.17	1.787941	1.847521	0.05	3.3	30
Carbon Tetrachloride	A	5.00	4.70	0.5349463	0.5034269	0.05	-5.9	30
Chlorobenzene	A	5.00	4.67	0.7508891	0.7017906	0.05	-6.5	30
Chloroethane	A	5.00	5.85	0.2783443	0.3257776	0.05	17.0	30
Chloroform	A	5.00	5.40	1.212155	1.309091	0.05	8.0	30
Chloromethane	A	5.00	4.80	0.5418058	0.5202043	0.05	-4.0	30
Cyclohexane	A	5.00	4.61	0.3674421	0.3389093	0.05	-7.8	30
Dibromochloromethane	A	5.00	4.53	0.7473385	0.6765399	0.05	-9.5	30
1,2-Dibromoethane (EDB)	A	5.00	4.37	0.6600501	0.5770118	0.05	-12.6	30
1,2-Dichlorobenzene	A	5.00	5.12	0.6481301	0.6632161	0.05	2.3	30
1,3-Dichlorobenzene	A	5.00	5.14	0.7015668	0.7210682	0.05	2.8	30
1,4-Dichlorobenzene	A	5.00	5.00	0.7096668	0.7095222	0.05	-0.02	30
Dichlorodifluoromethane (Freon 12)	A	5.00	5.43	1.429498	1.552632	0.05	8.6	30
1,1-Dichloroethane	A	5.00	5.11	1.092829	1.116847	0.05	2.2	30
1,2-Dichloroethane	A	5.00	5.13	0.7865236	0.806534	0.05	2.5	30
1,1-Dichloroethylene	A	5.00	4.87	0.9569238	0.9324829	0.05	-2.6	30
cis-1,2-Dichloroethylene	A	5.00	5.11	0.8321314	0.8501958	0.05	2.2	30
trans-1,2-Dichloroethylene	A	5.00	5.05	0.8759026	0.8850236	0.05	1.0	30
1,2-Dichloropropane	A	5.00	4.47	0.360087	0.3216565	0.05	-10.7	30
cis-1,3-Dichloropropene	A	5.00	5.02	0.523818	0.526209	0.05	0.5	30
trans-1,3-Dichloropropene	A	5.00	4.44	0.4919749	0.4370374	0.05	-11.2	30
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 1	A	5.00	5.05	1.685769	1.701417	0.05	0.9	30
1,4-Dioxane	A	5.00	4.66	0.193588	0.1805016	0.05	-6.8	30
Ethanol	A	5.00	4.54	0.1820862	0.1655186	0.05	-9.1	30
Ethyl Acetate	A	5.00	5.43	0.1888158	0.2052204	0.05	8.7	30
Ethylbenzene	A	5.00	4.60	1.243091	1.144768	0.05	-7.9	30
4-Ethyltoluene	A	5.00	4.61	1.17607	1.085158	0.05	-7.7	30
Heptane	A	5.00	4.29	0.2781826	0.2387399	0.05	-14.2	30
Hexachlorobutadiene	A	5.00	5.08	0.3871347	0.3936385	0.05	1.7	30
Hexane	A	5.00	4.65	0.7062516	0.6569164	0.05	-7.0	30

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CONTINUING CALIBRATION CHECK

EPA TO-15

S003699-CCV1

COMPOUND	TYPE	CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
2-Hexanone (MBK)	A	5.00	3.88	0.9700782	0.7537232	0.05	-22.3	30
Isopropanol	A	5.00	6.57	0.8060302	1.058848	0.05	31.4	30 *
Methyl tert-Butyl Ether (MTBE)	A	5.00	5.28	1.499911	1.585175	0.05	5.7	30
Methylene Chloride	A	5.00	4.66	0.8355231	0.7792404	0.05	-6.7	30
4-Methyl-2-pentanone (MIBK)	A	5.00	4.30	0.9094714	0.7823422	0.05	-14.0	30
Naphthalene	A	5.00	3.12	1.246215	0.7780851	0.05	-37.6	30 *
Propene	A	5.00	5.76	0.4557526	0.5249158	0.05	15.2	30
Styrene	A	5.00	4.78	0.6679813	0.637892	0.05	-4.5	30
1,1,2,2-Tetrachloroethane	A	5.00	4.67	0.9452754	0.8821798	0.05	-6.7	30
Tetrachloroethylene	A	5.00	4.98	0.4528223	0.4514906	0.05	-0.3	30
Tetrahydrofuran	A	5.00	5.56	0.2562512	0.2852128	0.05	11.3	30
Toluene	A	5.00	4.56	0.957834	0.8735838	0.05	-8.8	30
1,2,4-Trichlorobenzene	A	5.00	4.18	0.4479159	0.3748054	0.05	-16.3	30
1,1,1-Trichloroethane	A	5.00	4.64	0.5392166	0.5004211	0.05	-7.2	30
1,1,2-Trichloroethane	A	5.00	4.64	0.3705677	0.3454959	0.05	-6.8	30
Trichloroethylene	A	5.00	4.63	0.3742704	0.3463769	0.05	-7.5	30
Trichlorofluoromethane (Freon 11)	A	5.00	5.56	1.248934	1.387773	0.05	11.1	30
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113	A	5.00	5.25	1.044253	1.09721	0.05	5.1	30
1,2,4-Trimethylbenzene	A	5.00	4.87	0.9274325	0.9026685	0.05	-2.7	30
1,3,5-Trimethylbenzene	A	5.00	4.77	0.9520193	0.9090179	0.05	-4.5	30
Vinyl Acetate	A	5.00	4.25	1.995075	1.695264	0.05	-15.0	30
Vinyl Chloride	A	5.00	5.25	0.5783172	0.6072435	0.05	5.0	30
m&p-Xylene	A	10.0	9.44	1.013541	0.9565157	0.05	-5.6	30
o-Xylene	A	5.00	4.70	0.9589857	0.9006954	0.05	-6.1	30

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

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

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA TO-15 in Air	
Acetone	AIHA
Benzene	AIHA,FL,NJ,NY,VA
Benzyl chloride	AIHA,FL,NJ,NY,VA
Bromodichloromethane	AIHA,NJ,VA
Bromoform	AIHA,NJ,VA
Bromomethane	AIHA,FL,NJ,NY
1,3-Butadiene	AIHA,NJ,VA
2-Butanone (MEK)	AIHA,FL,NJ,NY,VA
Carbon Disulfide	AIHA,NJ,VA
Carbon Tetrachloride	AIHA,FL,NJ,NY,VA
Chlorobenzene	AIHA,FL,NJ,NY,VA
Chloroethane	AIHA,FL,NJ,NY,VA
Chloroform	AIHA,FL,NJ,NY,VA
Chloromethane	AIHA,FL,NJ,NY,VA
Cyclohexane	AIHA,NJ,VA
Dibromochloromethane	AIHA,NY
1,2-Dibromoethane (EDB)	AIHA,NJ,NY
1,2-Dichlorobenzene	AIHA,FL,NJ,NY,VA
1,3-Dichlorobenzene	AIHA,NJ,NY
1,4-Dichlorobenzene	AIHA,FL,NJ,NY,VA
Dichlorodifluoromethane (Freon 12)	AIHA,NY
1,1-Dichloroethane	AIHA,FL,NJ,NY,VA
1,2-Dichloroethane	AIHA,FL,NJ,NY,VA
1,1-Dichloroethylene	AIHA,FL,NJ,NY,VA
cis-1,2-Dichloroethylene	AIHA,FL,NY,VA
trans-1,2-Dichloroethylene	AIHA,NJ,NY,VA
1,2-Dichloropropane	AIHA,FL,NJ,NY,VA
cis-1,3-Dichloropropene	AIHA,FL,NJ,NY,VA
trans-1,3-Dichloropropene	AIHA,NY
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	AIHA,NJ,VA
1,4-Dioxane	AIHA,NJ,VA
Ethanol	AIHA
Ethyl Acetate	AIHA
Ethylbenzene	AIHA,FL,NJ,NY,VA
4-Ethyltoluene	AIHA,NJ
Heptane	AIHA,NJ,NY,VA
Hexachlorobutadiene	AIHA,NJ,NY,VA
Hexane	AIHA,FL,NJ,NY,VA
2-Hexanone (MBK)	AIHA
Isopropanol	AIHA,NY
Methyl tert-Butyl Ether (MTBE)	AIHA,FL,NJ,NY,VA
Methylene Chloride	AIHA,FL,NJ,NY,VA
4-Methyl-2-pentanone (MIBK)	AIHA,FL,NJ,NY
Naphthalene	NY
Propene	AIHA
Styrene	AIHA,FL,NJ,NY,VA
1,1,2,2-Tetrachloroethane	AIHA,FL,NJ,NY,VA

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

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA TO-15 in Air	
Tetrachloroethylene	AIHA,FL,NJ,NY,VA
Tetrahydrofuran	AIHA
Toluene	AIHA,FL,NJ,NY,VA
1,2,4-Trichlorobenzene	AIHA,NJ,NY,VA
1,1,1-Trichloroethane	AIHA,FL,NJ,NY,VA
1,1,2-Trichloroethane	AIHA,FL,NJ,NY,VA
Trichloroethylene	AIHA,FL,NJ,NY,VA
Trichlorofluoromethane (Freon 11)	AIHA,NY
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	AIHA,NJ,NY,VA
1,2,4-Trimethylbenzene	AIHA,NJ,NY
1,3,5-Trimethylbenzene	AIHA,NJ,NY
Vinyl Acetate	AIHA,FL,NJ,NY,VA
Vinyl Chloride	AIHA,FL,NJ,NY,VA
m&p-Xylene	AIHA,FL,NJ,NY,VA
o-Xylene	AIHA,FL,NJ,NY,VA

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

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

con-test® ANALYTICAL LABORATORY
Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com
www.contestlabs.com
39 SPRUCE ST
EAST LONGMEADOW, MA 01028

AIR SAMPLE CHAIN OF CUSTODY RECORD

13A0288

Company Name: ARCADIS U.S., INC.
Address: 855 ROUTE 146, SUITE 210
CLIFTON PARK NY, 12065
Attention: STEFAN BAGNATO
Project Location: COHOES, NY
Sampled By: STEFAN BAGNATO

Telephone: (518) 250-7300
Project # 00266396.0000
Client PO # 00266396.0000

DATA DELIVERY (check one):
☐FAX ☒EMAIL ☐WEBSITE CLIENT
Fax # :
Email: stefan.bagnato@arcadis-us.com
Format: ☒EXCEL ☒PDF ☐ GIS KEY ☐ OTHER___

Proposal Provided? (For Billing purposes)
☐ yes _____ proposal date

Field ID	ID Sample Description	Media	Lab #	Date Sampled Start Date Time	Date Sampled Stop Date Time	ONLY USE WHEN USING PUMPS Total Minutes Sampled	Flow Rate M^3/Min. or L / Min.	Volume Liters or M^3	Matrix Code*	ANALYSIS REQUESTED TO-15				" Hg Initial pressure	" Hg Final Pressure	Lab Receipt Pressure	Summa Canister ID	Flow Control ID
	8W-SS-1		01	1-9-13 10:55	1-10-13 0930				SG	X				-30	0	3	BC1265	3057
	8W-DUP		02	1-9-13 10:55	1-10-13 0930				SG	X				-30	-11	10	BC1296	3357
	8W-BA-1		03	1-9-13 10:55	1-10-13 0930				IA	X				-30	-9	9.5	BC1474	3403
	11-010913		04	1-9-13 1100	1-10-13 1000				AMB	X				-28	-6	12	BC1624	3060
	SV-15		05	1-9-13 1200	1-9-13 1255				SG	X				-25	-3	7.9	BC1711	4168
	SV-13		06	1-9-13 1220	1-9-13 1315				SG	X				-25	-4	4.4	BC1627	4169
	SV-12		07	1-9-13 1235	1-9-13 1340				SG	X				-29	-4	10	BC1153	4166

Laboratory Comments:

CLIENT COMMENTS: PLEASE PROVIDE STANDARD + NYSDEC EQUIS EDDS.

Please fill out completely, sign, da and retain the yello copy for your record

Summa canisters a flow controllers mu returned within 14 d of receipt or rental f will apply.

Summa canisters w retained for a minim of 14 days after sampling date prior cleaning.

Relinquished by: (signature)	Date/Time:
[signature]	1/10/13 1245
Received by: (signature)	Date/Time:
[signature]	1/11/13 1008
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Turnaround **
☐ 7-Day
☐ 10-Day
☒ Other STD
RUSH *
☐ *24-Hr ☐ *48-Hr
☐ *72-Hr ☐ *4-Day
*Approval Required

Special Requirements
Regulations: NYSDEC ASP CAT B.
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

Page 34 of 38 13A0288_1 Contest_Final 01 22 13 0554

FedEx.

901560228318

Ship (P/U) date :
Thur 1/10/2013 4:28 pm
CLIFTON PARK, NY US

Delivered
Signed for by: A.ARD

Actual delivery :
Fri 1/11/2013 10:08 am
East Longmeadow, MA US

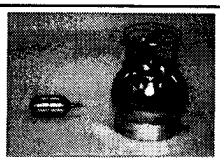
Travel History

Date/Time	Activity	Location
- 1/11/2013 - Friday		
10.08 am	Delivered	East Longmeadow, MA
8:17 am	On FedEx vehicle for delivery	WINDSOR LOCKS, CT
7:02 am	At local FedEx facility	WINDSOR LOCKS, CT
3:50 am	Departed FedEx location	NEWARK, NJ
12:24 am	Arrived at FedEx location	NEWARK, NJ
- 1/10/2013 - Thursday		
9:00 pm	Left FedEx origin facility	MENANDS, NY
4:28 pm	Picked up	MENANDS, NY
3:29 pm	Shipment information sent to FedEx	

Local Scan Time

Shipment Facts

Tracking number	901560228318	**Service**	FedEx Priority Overnight
Weight	35 lbs	**Dimensions**	22x18x14 in.
Delivered To	Receptionist/Front Desk	**Total pieces**	1
Total shipment weight	35 lbs / 15.9 kgs	**Shipper reference**	00266396.000015194-HUNZIKER LINDSAY
Packaging	Your Packaging	**Special handling section**	Deliver Weekday



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con-test® ANALYTICAL LABORATORY

AIR Only Receipt Checklist

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

CLIENT NAME: ARCADIS RECEIVED BY: VA DATE: 1/11

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

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

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

4) Are there any samples "On Hold"? Yes (No) Stored where:

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

6) Location where samples are stored: AIR

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

Containers received at Con-Test

	# of Containers	Types (Size, Duration)
Summa Cans	8	6L
Tedlar Bags		
Tubes		
Regulators	8	24HR / 1HR
Restrictors		
Tubing		
Other		

Unused Summas: 1809

Unused Regulators: 4167

1) Was all media (used & unused checked into the WASP?

2) Were all returned summa cans, Restrictors, & Regulators documented as returned in the Air Lab Inbound/Outbound Excel Spreadsheet?

Laboratory Comments:
1265 1474 1711 1153
1296 1624 1637
3075 3403 4168 4166
3399 3060 4169

Air Sampling Media Certificate of Analysis

Date Analyzed: 12/23/2012 **Batch #:** 12CC0470

Certification Type: *Batch Certified* ☑ *Individual Certified* ☐

Media Type: *Summa Canister* ☑ *Flow Controllers* ☐

Media IDs:			
BC1296	BC1474	BC1711	
BC1627	BC1153		

Note:Two ID's grouped together, for example BC2136/BC3145, represents matched pairs of certified summa canisters and flow controllers.

Units: PPBv

<0.80	Propene	<0.04	Vinyl acetate	<0.02	Dibromchloromethane
<0.02	Dichlorodifluoromethane	<0.80	Hexane	<0.02	1,2-Dibromomethane
<0.02	Chloromethane	<0.02	Ethyl acetate	<0.02	Tetrachloroethylene
<0.02	Freon 114	<0.02	Chloroform	<0.02	Chlorobenzene
<0.02	Vinyl chloride	<0.02	Tetrahydrofuran	<0.02	Ethylbenzene
<0.02	1.3-Butadiene	<0.02	1,2-Dichloroethane	<0.04	m,p-Xylenes
<0.02	Bromomethane	<0.02	1,1,1-Trichloroethane	<0.02	Bromoform
<0.02	Chloroethane	<0.02	Benzene	<0.02	Styrene
<0.08	Acrolein	<0.02	Carbon Tetrachloride	<0.02	o-Xylene
<0.80	Acetone	<0.02	Cyclohexane	<0.02	1,1,2,2-Tetrachloroethane
<0.02	Trichlorofluoromethane	<0.02	1,2-Dichloropropane	<0.02	4-Ethyltoluene
<0.80	Ethanol	<0.02	Bromodichloromethane	<0.02	1,3,5-Trimethylbenzene
<0.02	1,1-Dichloroethylene	<0.02	Trichloroethylene	<0.02	1,2,4-Trimethylbenzene
<0.20	Methylene chloride	<0.02	1,4-Dioxane	<0.02	1,3-Dichlorobenzene
<0.02	Freon 113	<0.02	Methylmethacrylate	<0.02	Benzyl chloride
<0.02	Carbon disulfide	<0.02	Heptane	<0.02	1,4-Dichlorobenzene
<0.02	t-1,2-Dichloroethylene	<0.02	MIBK	<0.02	1,2-Dichlorobenzene
<0.02	1,1-Dichloroethane	<0.02	c-1,3-Dichloropropylene	<0.04	1,2,4-Trichlorobenzene
<0.02	MTBE	<0.02	t-1,3-Dichloropropylene	<0.02	Naphthalene
<0.80	IPA	<0.02	1,1,2-Trichloroethylene	<0.02	Hexachlorobutadiene
<0.80	2-Butanone (MEK)	<0.02	Toluene		
<0.02	c-1,2-Dichloroethylene	<0.02	2-Hexanone (MBK)		

Special Notes:

Analyst Initials/Date: TPH 1/14/13

Air Sampling Media Certificate of Analysis

Date Analyzed: 12/23/2012 **Batch #:** 12CC0471

Certification Type: *Batch Certified* ☑ *Individual Certified* ☐

Media Type: *Summa Canister* ☑ *Flow Controllers* ☐

Media IDs: BC1265 BC1624

Note:Two ID's grouped together, for example BC2136/BC3145, represents matched pairs of certified summa canisters and flow controllers.

Units: PPBv

<0.80	Propene	<0.04	Vinyl acetate	<0.02	Dibromchloromethane
<0.02	Dichlorodifluoromethane	<0.80	Hexane	<0.02	1,2-Dibromomethane
<0.02	Chloromethane	<0.02	Ethyl acetate	<0.02	Tetrachloroethylene
<0.02	Freon 114	<0.02	Chloroform	<0.02	Chlorobenzene
<0.02	Vinyl chloride	<0.02	Tetrahydrofuran	<0.02	Ethylbenzene
<0.02	1.3-Butadiene	<0.02	1,2-Dichloroethane	<0.04	m,p-Xylenes
<0.02	Bromomethane	<0.02	1,1,1-Trichloroethane	<0.02	Bromoform
<0.02	Chloroethane	<0.02	Benzene	<0.02	Styrene
<0.08	Acrolein	<0.02	Carbon Tetrachloride	<0.02	o-Xylene
<0.80	Acetone	<0.02	Cyclohexane	<0.02	1,1,2,2-Tetrachloroethane
<0.02	Trichlorofluoromethane	<0.02	1,2-Dichloropropane	<0.02	4-Ethyltoluene
<0.80	Ethanol	<0.02	Bromodichloromethane	<0.02	1,3,5-Trimethylbenzene
<0.02	1,1-Dichloroethylene	<0.02	Trichloroethylene	<0.02	1,2,4-Trimethylbenzene
<0.20	Methylene chloride	<0.02	1,4-Dioxane	<0.02	1,3-Dichlorobenzene
<0.02	Freon 113	<0.02	Methylmethacrylate	<0.02	Benzyl chloride
<0.02	Carbon disulfide	<0.02	Heptane	<0.02	1,4-Dichlorobenzene
<0.02	t-1,2-Dichloroethylene	<0.02	MIBK	<0.02	1,2-Dichlorobenzene
<0.02	1,1-Dichloroethane	<0.02	c-1,3-Dichloropropylene	<0.04	1,2,4-Trichlorobenzene
<0.02	MTBE	<0.02	t-1,3-Dichloropropylene	<0.02	Naphthalene
<0.80	IPA	<0.02	1,1,2-Trichloroethylene	<0.02	Hexachlorobutadiene
<0.80	2-Butanone (MEK)	<0.02	Toluene		
<0.02	c-1,2-Dichloroethylene	<0.02	2-Hexanone (MBK)		

Special Notes:

Analyst Initials/Date: TPH 1/14/13

ARCADIS

Appendix I

Disposal Facility Scale Tickets

APPENDIX I
SUMMARY OF SOIL DISPOSAL
REMEDIAL INVESTIGATION
FORMER S&S CLEANERS AND DYERS SITE
SITE # 401063
13 WILLOW STREET, COHOES, NEW YORK

Shipment Date	Manifest Number	Canadian Manifest Number	Field Estimated Weight (tons)	Scaled Weight for Export (tons)	Scaled Weight at Disposal Facility	
					(kg)	(tons)
5/15/2013	005624739 FLE	WS25337-7	20	23.793	21,630	23.843
	005624740 FLE	WS25338-5	32	32.318	29,380	32.386
5/16/2013	005624744 FLE	WS25340-1	27	30.767	27,970	30.831
	005624743 FLE	WS25339-3	22	22.132	20,120	22.178
5/20/2013	005624716 FLE	WS25341-9	32	32.494	29,540	32.562
	005624747 FLE	WS25342-7	27	30.767	27,970	30.831
5/23/2013	005624751 FLE	WS25343-5	22	23.276	21,120	23.281
		TOTAL	**182**	**195.547**	**177,730**	**195.912**

CleanHarbors®

ENVIRONMENTAL SERVICES

Work Order # NYS223565-002

Canadian Manifest # WS25340-1

Truck # 327

Trailer # 327A

Loaded Container # 1

2

3

4

Driver (print): Kevin M. Hemp

Date: 5/17/13 (Enter Date if not on scale stamped information)

36,380

ENTER SCALE WEIGHTS HERE

Tare Type: T

Gross Weight:	44470 kg
Tare Weight:	16500 kg
Net Weight:	27970 kg
17 May 2013	09:34:41

Clean Harbors®
ENVIRONMENTAL SERVICES

Work Order # WY5223565-002

Canadian Manifest # WS25339-3

Truck # 157

Trailer # 157A

Loaded Container # 1

2

3

4

Driver (print): Jay L. Fauzey

Date: 5/17/13

33,500 TARE

ENTER SCALE WEIGHTS HERE

Tare Type:	PT
Gross Weight:	35320 kg
Tare Weight:	15200 kg
Net Weight:	20120 kg
17 May 2013	09:46:04

(Enter Date if not on scale stamped information)

CleanHarbors®

ENVIRONMENTAL SERVICES

Work Order # NY5023565-008

Canadian Manifest # WS2543-5

Truck # 187

Trailer # 187A

Loaded Container # 1

2

3

4

Driver (print): Matthew R Snope

Date: 5-24-13 (Enter Date if not on scale stamped information)

Tare Type:
Gross Weight: 37220 kg
Tare Weight: 00 kg
Net Weight: 37220 kg
24 May 20[illegible]ENTER SCALE[illegible]8:41:06
WEIGHTS HERE

Tare Type: PT
Gross Weight: 37220 kg
Tare Weight: 16060 kg
Net Weight: 21160 kg

CleanHarbors®

ENVIRONMENTAL SERVICES

Work Order # NY5223565-002

Canadian Manifest # WS 25341-9

00562476 FLE

Truck # 308 A

Trailer # 30E A

Loaded Container # 1

2

3

4

Driver (print): Scott Smith

Date: 5/21/13 (Enter Date if not on scale stamped information)

35040

Tare Type: PT
Gross Weight: 45430 kg
Tare Weight: 15890 kg
Net Weight: 29540 kg
21 May 2013 09:31:22

ENTER SCALE WEIGHTS HERE

CleanHarbors®
ENVIRONMENTAL SERVICES

Work Order # NY5223565-002

Canadian Manifest # WS25342-7
00562474 7 FLE

Truck # 327

Trailer # 3274

Loaded Container # 1

2

3

4

Driver (print): Kevin M. Hosey

Date: 5/21/13 (Enter Date if not on scale stamped information)

36,220

Tare Type: PT
Gross Weight: 44400 kg
Tare Weight: 16430 kg
Net Weight: 27970 kg
21 May 2013 09:25:17
ENTER SCALE WEIGHTS HERE

Clean Harbors®

ENVIRONMENTAL SERVICES

Work Order # NY5223565-002

Canadian Manifest # WS-25338-5

005624740PKE

TARE 15909. Kg

Truck # 308

Trailer # 308A

Loaded Container # 1

2

3

4

Driver (print): Scott Smith

Date: 5/16/13

ENTER SCALE WEIGHTS HERE

Tare Type:	PT
Gross Weight:	45290 kg
Tare Weight:	15910 kg
Net Weight:	29380 kg
16 May 2013	09:59:53

(Enter Date if not on scale stamped information)

CleanHarbors®

ENVIRONMENTAL SERVICES

Work Order # NY5223565-002

Canadian Manifest # WS25337-7

00562473 9FLE

tare 15300 kg

Truck # 107

Trailer # 107A

Loaded Container # 1

2

3

4

Driver (print): Gary Frable

Date: 5/16/13

ENTER SCALE WEIGHTS HERE

Tare Type: T

Gross Weight:	36930 kg
Tare Weight:	15300 kg
Net Weight:	21630 kg
16 May 2013	10:08:53

(Enter Date if not on scale stamped information)

Appendix J

Backfill Scale Tickets

APPENDIX J
SUMMARY OF OFF-SITE BACKFILL
REMEDIAL INVESTIGATION
FORMER S&S CLEANERS AND DYERS SITE
SITE # 401063
13 WILLOW STREET, COHOES, NEW YORK

Delivery Date	Material	Ticket Number	Scaled Weight		
			Pounds	Tons	Total Tons
5/21/2013	Bankrun Sand & Gravel	13152	43,160	21.58	268.09
		13153	44,120	22.06	
		13154	43,500	21.75	
		13155	43,500	21.75	
		13156	43,460	21.73	
		13157	43,240	21.62	
		13158	45,700	22.85	
		13159	43,840	21.92	
		13160	46,000	23.00	
		13161	47,840	23.92	
		13164	46,340	23.17	
		13165	45,480	22.74	
5/22/2013	Item 4	13167	45,940	22.97	46.11
		13168	46,280	23.14	
5/22/2013	Crusher Run	182463	43,220	21.610	21.610
		TOTAL	**671,620**		**336**

SOLD TO Clean Harbor
13-Willow St. Cohoes
365-6089
RT 40 PERRY PIT

JOB NO. _____

WARREN W. FANE INC.
REMIT TO:
62 LEVERSEE ROAD
TROY, NEW YORK 12182
(518) 235-5531

☐ FOB
☑ DELIVERED

08:50 05/21/13 70580 LB G
ID 24 27420 LB (K) T
13152 43160 LB N

☐ MASON SAND
☐ CONCRETE SAND
☐ #1a STONE
☐ #1 STONE
☐ #2 STONE
☐ ITEM 4 GRAVEL

NOTICE: CUSTOMER/DRIVER CERTIFIES THAT THE LOADED WEIGHT OF THIS VEHICLE IS IN COMPLIANCE WITH ALL STATE AND FEDERAL REGULATIONS.

SIGNED Matt Ryder

OTHER R.O.B. Gravel

SOLD TO Clean Harbor
13 Willow St
Cohoes, NY
RT 40 PERRY PIT

JOB NO. _____

WARREN W. FANE INC.
REMIT TO:
62 LEVERSEE ROAD
TROY, NEW YORK 12182
(518) 235-5531

☐ FOB
☑ DELIVERED

08:58 05/21/13 70320 LB G
ID 49 26200 LB (K) T
13153 44120 LB N

☐ MASON SAND
☐ CONCRETE SAND
☐ #1a STONE
☐ #1 STONE
☐ #2 STONE
☐ ITEM 4 GRAVEL

NOTICE: CUSTOMER/DRIVER CERTIFIES THAT THE LOADED WEIGHT OF THIS VEHICLE IS IN COMPLIANCE WITH ALL STATE AND FEDERAL REGULATIONS.

SIGNED Matt Ryder

OTHER Rob Gravel

SOLD TO Clean Harbor
13-Willow St. Cohoes
365-6089
RT 40 PERRY PIT

JOB NO. _____

WARREN W. FANE INC.
REMIT TO:
62 LEVERSEE ROAD
TROY, NEW YORK 12182
(518) 235-5531

☐ FOB
☑ DELIVERED

10:04 05/21/13 70920 LB G
ID 24 27420 LB (K) T
13154 43500 LB N

☐ MASON SAND
☐ CONCRETE SAND
☐ #1a STONE
☐ #1 STONE
☐ #2 STONE
☐ ITEM 4 GRAVEL

NOTICE: CUSTOMER/DRIVER CERTIFIES THAT THE LOADED WEIGHT OF THIS VEHICLE IS IN COMPLIANCE WITH ALL STATE AND FEDERAL REGULATIONS.

OTHER R.O.B. Gravel

SIGNED Matt Rydberg

SOLD TO Clean Harbor
13 Willow St
Cohoes
RT 40 PERRY PIT

JOB NO. _____

WARREN W. FANE INC.
REMIT TO:
62 LEVERSEE ROAD
TROY, NEW YORK 12182
(518) 235-5531

10:09 05/21/13 59500 LB G
ID 49 26000 LB (K) T
13155 43500 LB N

☐ FOB
☑ DELIVERED

☐ MASON SAND
☐ CONCRETE SAND
☐ #1a STONE
☐ #1 STONE
☐ #2 STONE
☐ ITEM 4 GRAVEL

NOTICE: CUSTOMER/DRIVER CERTIFIES THAT THE LOADED WEIGHT OF THIS VEHICLE IS IN COMPLIANCE WITH ALL STATE AND FEDERAL REGULATIONS.

OTHER Rob Gravel

SIGNED Matt Rydberg

SOLD TO Clean Harbor
13-Willow St. Cohoes
365-6089
RT 40 PERRY PIT

JOB NO. _____

WARREN W. FANE INC.
REMIT TO:
62 LEVERSEE ROAD
TROY, NEW YORK 12182
(518) 235-5531

☐ FOB
☑ DELIVERED

11:04 05/21/13 70880 LB G
ID 24 27420 LB (K) T
13156 43460 LB N

☐ MASON SAND
☐ CONCRETE SAND
☐ #1a STONE
☐ #1 STONE
☐ #2 STONE
☐ ITEM 4 GRAVEL

NOTICE: CUSTOMER/DRIVER CERTIFIES THAT THE LOADED WEIGHT OF THIS VEHICLE IS IN COMPLIANCE WITH ALL STATE AND FEDERAL REGULATIONS.

SIGNED Matt Ryderg

OTHER R.O.B. Gravel

SOLD TO Clean Harbor
13 Willow St
Cohoes NY
RT 40 PERRY PIT

JOB NO. _____

WARREN W. FANE INC.
REMIT TO:
62 LEVERSEE ROAD
TROY, NEW YORK 12182
(518) 235-5531

☐ FOB
☑ DELIVERED

11:06 05/21/13 69440 LB G
ID 49 26200 LB (K) T
13157 43240 LB N

☐ MASON SAND
☐ CONCRETE SAND
☐ #1a STONE
☐ #1 STONE
☐ #2 STONE
☐ ITEM 4 GRAVEL

NOTICE: CUSTOMER/DRIVER CERTIFIES THAT THE LOADED WEIGHT OF THIS VEHICLE IS IN COMPLIANCE WITH ALL STATE AND FEDERAL REGULATIONS.

SIGNED Matt Ryderg

OTHER ROB Gravel

SOLD TO Clean Harbor
13-Willow St. Cohoes
365-6089
RT 40 PERRY PIT

JOB NO. _____

WARREN W. FANE INC.
REMIT TO:
62 LEVERSEE ROAD
TROY, NEW YORK 12182
(518) 235-5531

☐ FOB
☑ DELIVERED

11:59 05/21/13 73120 LB G
ID 24 27420 LB (K) T
13158 45700 LB N

☐ MASON SAND
☐ CONCRETE SAND
☐ #1a STONE
☐ #1 STONE
☐ #2 STONE
☐ ITEM 4 GRAVEL

NOTICE: CUSTOMER/DRIVER CERTIFIES THAT THE LOADED WEIGHT OF THIS VEHICLE IS IN COMPLIANCE WITH ALL STATE AND FEDERAL REGULATIONS.

SIGNED Matt Rydberg

OTHER R.O.B. Gravel

SOLD TO Clean Harbor
13 Willow St.
Cohoes NY
RT 40 PERRY PIT

JOB NO. _____

WARREN W. FANE INC.
REMIT TO:
62 LEVERSEE ROAD
TROY, NEW YORK 12182
(518) 235-5531

☐ FOB
☑ DELIVERED

12:05 05/21/13 70040 LB G
ID 49 26200 LB (K) T
13159 43840 LB N

☐ MASON SAND
☐ CONCRETE SAND
☐ #1a STONE
☐ #1 STONE
☐ #2 STONE
☐ ITEM 4 GRAVEL

NOTICE: CUSTOMER/DRIVER CERTIFIES THAT THE LOADED WEIGHT OF THIS VEHICLE IS IN COMPLIANCE WITH ALL STATE AND FEDERAL REGULATIONS.

SIGNED MATT RYDBERG

OTHER ROB Gravel

SOLD TO Clean Harbor
13-Willow St. Cohoes
365-6089
RT 40 PERRY PIT

JOB NO. _____

WARREN W. FANE INC.
REMIT TO:
62 LEVERSEE ROAD
TROY, NEW YORK 12182
(518) 235-5531

☐ FOB
☑ DELIVERED

12:56 05/21/13 73420 LB G
ID 24 27420 LB (K) T
13160 46000 LB N

☐ MASON SAND
☐ CONCRETE SAND
☐ #1a STONE
☐ #1 STONE
☐ #2 STONE
☐ ITEM 4 GRAVEL

NOTICE: CUSTOMER/DRIVER CERTIFIES THAT THE LOADED WEIGHT OF THIS VEHICLE IS IN COMPLIANCE WITH ALL STATE AND FEDERAL REGULATIONS.

OTHER R.O.B. Gravel

SIGNED Matt Ryberg

SOLD TO Clean Harbor
13 Willow St
Cohoes NY
RT 40 PERRY PIT

JOB NO. _____

WARREN W. FANE INC.
REMIT TO:
62 LEVERSEE ROAD
TROY, NEW YORK 12182
(518) 235-5531

☐ FOB
☑ DELIVERED

13:01 05/21/13 74040 LB G
ID 49 26200 LB (K) T
13161 47840 LB N

☐ MASON SAND
☐ CONCRETE SAND
☐ #1a STONE
☐ #1 STONE
☐ #2 STONE
☐ ITEM 4 GRAVEL

NOTICE: CUSTOMER/DRIVER CERTIFIES THAT THE LOADED WEIGHT OF THIS VEHICLE IS IN COMPLIANCE WITH ALL STATE AND FEDERAL REGULATIONS.

OTHER ROB Gravel

SIGNED Matt Ryberg

SOLD TO Clean Harbors
13-Willow St. Cohoes
365-6089
RT 40 PERRY PIT

JOB NO. _____

WARREN W. FANE INC.
REMIT TO:
62 LEVERSEE ROAD
TROY, NEW YORK 12182
(518) 235-5531

☐ FOB
☑ DELIVERED

13:54 05/21/13 73760 LB G
ID 24 27420 LB (K) T
13164 46340 LB N

☐ MASON SAND
☐ CONCRETE SAND
☐ #1a STONE
☐ #1 STONE
☐ #2 STONE
☐ ITEM 4 GRAVEL

OTHER R.O.B. Gravel

NOTICE: CUSTOMER/DRIVER CERTIFIES THAT THE LOADED WEIGHT OF THIS VEHICLE IS IN COMPLIANCE WITH ALL STATE AND FEDERAL REGULATIONS.

SIGNED Matt Ryder

SOLD TO Clean Harbor
13 Willow St.
Cohoes, NY
RT 40 PERRY PIT

JOB NO. _____

WARREN W. FANE INC.
REMIT TO:
62 LEVERSEE ROAD
TROY, NEW YORK 12182
(518) 235-5531

☐ FOB
☑ DELIVERED

13:59 05/21/13 71680 LB G
ID 49 26200 LB (K) T
13165 45480 LB N

☐ MASON SAND
☐ CONCRETE SAND
☐ #1a STONE
☐ #1 STONE
☐ #2 STONE
☐ ITEM 4 GRAVEL

OTHER ROB Grnvel

NOTICE: CUSTOMER/DRIVER CERTIFIES THAT THE LOADED WEIGHT OF THIS VEHICLE IS IN COMPLIANCE WITH ALL STATE AND FEDERAL REGULATIONS.

SIGNED MATT RYDBERG

SOLD TO CLEAN HARBOR
WILLOW ST. COHOES
#46 FRED SEYMOUR
RT 40 PERRY PIT

JOB NO. _____

WARREN W. FANE INC.
REMIT TO:
62 LEVERSEE ROAD
TROY, NEW YORK 12182
(518) 235-5531

☐ FOB
☑ ~~DELIVERED~~

0
07:19 05/22/13 72280 LB G
ID 46 26340 LB (K) T
13167 45940 LB N

☐ MASON SAND
☐ CONCRETE SAND
☐ #1a STONE
☐ #1 STONE
☐ #2 STONE
☑ ~~ITEM 4~~ GRAVEL

NOTICE: CUSTOMER/DRIVER CERTIFIES THAT THE LOADED WEIGHT OF THIS VEHICLE IS IN COMPLIANCE WITH ALL STATE AND FEDERAL REGULATIONS.

SIGNED Ken Cook

OTHER _____

SOLD TO CLEAN HARBOR
WILLOW ST. COHOES
#46 FRED SEYMOUR
RT 40 PERRY PIT

JOB NO. _____

WARREN W. FANE INC.
REMIT TO:
62 LEVERSEE ROAD
TROY, NEW YORK 12182
(518) 235-5531

☐ FOB
☑ ~~DELIVERED~~

08:27 05/22/13 72620 LB G
ID 46 26340 LB (K) T
13168 46280 LB N

☐ MASON SAND
☐ CONCRETE SAND
☐ #1a STONE
☐ #1 STONE
☐ #2 STONE
☑ ~~ITEM 4~~ GRAVEL

NOTICE: CUSTOMER/DRIVER CERTIFIES THAT THE LOADED WEIGHT OF THIS VEHICLE IS IN COMPLIANCE WITH ALL STATE AND FEDERAL REGULATIONS.

SIGNED Ken Cook

OTHER _____

182463 **Phone 235-5531**

TROY, N.Y., 5/22 **20** 13

M CLEAN HARBOR

WILLOW ST CONDOS

WARREN FANE INC.

62 Leversee Road

Sand :: Gravel :: Fill

Bulldozing

FRED SEYMOUR #41

CRUSHER RUN

TICKET 0514201

TON - 21.610

Signed